भारतसरकार
GOVERNMENT OF INDIA
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
क्षेत्रीय कार्यालय/ **Regional Office-Chennai**
1st Floor, Additional Office Block for GPOA, Shastri Bhawan, Haddows Road, Nungambakkam, Chennai - 600034; Email: roefccc1@gmail.com

F.No. EP/12.1/2024-25/SEIAA/98/TN/686 **Dated: 29 April 2025**

To

The Member Secretary,
State Environment Impact Assessment Authority-Tamil Nadu (SEIAA-TN),
3rd Floor, Panagal Maaligai, No.1 Jeenis Road, Saidapet,
Chennai – 600 015,
Email- cmantnseiaa@yahoo.com

Subject : Certified Compliance Report for the project *"SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous)"*- Reg

Reference :
1. Your request letter dated 24/01/2025 to issue a Certified Compliance Report (CCR).
2. SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020.
3. Letter from RO Chennai seeking submission of ATR/Clarification and undertaking from the PP dated 21/04/2025.
4. Letter from PP regarding to submission of ATR/Clarification and undertaking dated 22/04/2025.

Respected Sir/Madam,

With reference to subject and references cited above, it is to submit that the Project Proponent (PP) *M/s. Kanishk Steel Industries Limited* has obtained Environmental Clearance from SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020 for the project *"SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous)"*.

2. The project was monitored by the undersigned on 13/02/2025. The project proponent submitted an Action Taken Report/Clarification via E-mail dated 22/04/2025.

3. Enclosed are the CCR and its supporting documents and the ATR submitted by the proponent for further action.

This has issued with the approval of the Competent Authority.

Encl.: as above

29/04/2025

(Dr.S.Pradeepkumar)
Scientist 'B'

Dr.S.Pradeepkumar
Scientist 'B'
Government of India
Regional Office
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Haddows Road, Nungambakkam,
Chennai - 600 006, Tamilnadu.

Copy to

1. The Director, Compliance and Monitoring Division, IA Division, Indira Paryavaran Bhawan, Ministry of Environment, Forest & Climate Change, Jorbagh Road, Aliganj, New Delhi -110003. E-mail: shruti.rai@nic.in

2. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600032, E-mail: memsec@tnpcb.gov.in

3. The District Collector, First Floor, Collectorate, Tiruvallur – 602001, E-mail: collrtlr@nic.in

4. The Regional Director, Central Pollution Control Board, Regional Directorate, Chennai, 2nd Floor, 40-E, BSNL Building, TVK Industrial Estate, CIPET Road Guindy, Chennai – 600032, E-mail: vlaxmi.cpcb@nic.in

5. Mr.Ashok Bohra, Director, M/s. Kanishk Steel Industries Limited, B-27N, B-27M, B-27S, SIPCOT Industrial Complex, Gummidipoondi - 601 201. E-mail ID.: kanishkgpd@gmail.com

6. Office Copy.

29/04/2025

(Dr.S.Pradeepkumar)
Scientist 'B'

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Government of India
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GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
Regional Office (Chennai)

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

PART-I

DATASHEET

1	Project type: River valley / Mining / Industry / Thermal / Nuclear / Other specify	:	Industry
2	Schedule and category of the Project as per EIA, 2006		3(a) Metallurgical industries (ferrous & non-ferrous)
3	Category of the project as per CPCB Guidelines (Red, Orange, Green)		Orange
4	Name of the project and project proponent	:	SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous).
5	Clearance Letter (S) / OM No. and Date (Chronological Order)	:	SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020.
6	Locations		
	a. Village	:	Peddikuppam
	b. Taluk	:	Gummidipoondi
	c. District	:	Tiruvallur
	d. State	:	Tamil Nadu
	e. Latitudes / Longitudes	:	Lat 13.416852° / Long 80.118885°
7	Address for Correspondence		
	(a) Address of concerned Project Chief Engineer (with pin code	:	Mr.Ashok Bohra, Director, M/s. Kanishk Steel Industries Limited,

	& Telephone / telex / fax numbers and E-mail ID)		B-27N, B-27M, B-27S, SIPCOT Industrial Complex, Gummidipoondi - 601 201. Mobile No.: 9940048723, Ph: (044) 2792 2187, 2792 2774 E-mail ID.: kanishkgpd@gmail.com
	(b) Address of Executive Project Engineer / Manager (with pin code / fax numbers and E-mail ID)	:	-
8	Salient features		
	(a) Present status of the project	:	Existing Blocks: Under operation Expansion Blocks: Proposed
	(b) Environmental Management Plans of the project	:	The PP has set up STP, Rainwater Harvesting and DG sets facility in the existing premises.
9	Breakup of the project area		
	(a) Submergence area (forest & non forest)		-
	(b) Others		-
10	Total Plot Area	:	3.015 Ha (as per EC)
	Built-up Area (Including Road)	:	-
	Open Space available	:	-
	Green Belt Area	:	1336 Sq.m (33%) (as per EC)
11	Financial Details		
	(a) Project cost as originally planned and subsequent revised estimates and the years of price reference	:	Rs.4.0 Crores
	(b) Allocations made for environmental management plans, with item wise and year wise breakup.	:	For Operation Phase: Capital Cost – Rs.45.0 Lakhs Operation Cost – Rs.7.0 Lakhs per annum
	(c) Actual expenditure incurred on the Project so far	:	-
	(d) Actual expenditure incurred on the Environmental Management Plans so far		-
12	Forest land requirement		
	(a) The status of approval for diversion of forest land for non-forestry use.	:	NA

<table>
<tr><td>13</td><td>Whether project located in Critically Polluted Area/Severely Polluted</td><td>:</td><td>NA</td></tr>
<tr><td>14</td><td>Status of Construction</td><td></td><td></td></tr>
<tr><td></td><td>(a) Date of commencement (Actual and/or planned)</td><td>:</td><td>-</td></tr>
<tr><td></td><td>(b) Date of completion (actual or planned)</td><td>:</td><td>-</td></tr>
<tr><td>15</td><td>Production details as per EC & CTO</td><td>:</td><td><table><tr><th>Year</th><th>Total production as per EC</th><th>Total production as per CTO</th><th>Actual Production</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table></td></tr>
<tr><td>16</td><td>Reasons for the delay if the project is yet to start.</td><td>:</td><td>-</td></tr>
<tr><td>17</td><td>KML file of the project</td><td>:</td><td>-</td></tr>
<tr><td>18</td><td>Status of Public Hearing Commitments</td><td>:</td><td>-</td></tr>
<tr><td>19</td><td>Status of R&R</td><td>:</td><td>-</td></tr>
<tr><td>20</td><td>Date of Site Visits</td><td></td><td></td></tr>
<tr><td></td><td>(a) The date on which the project was monitored by the regional office on previous occasions, if any</td><td>:</td><td>This Office issued the CCR for the EC granted by SEIAA-TN vide Letter No. SEIAA/ TN/ EC/ 3(a)/ 008/ F-129/ 2009/ dated 03/08/2009 earlier vide F.No.EP/12.1/SEIAA/85/TN/787 dated 26/07/2022.</td></tr>
<tr><td></td><td>(b) Date of site visit for this monitoring report</td><td>:</td><td>13/02/2025</td></tr>
<tr><td>21</td><td>Purpose of present Site visit
a. Suo moto/ Random Inspection of projects by RO/SRO
b. CCR for expansion project's EC under EIA Notification 2006
c. Verification Report (VR) of Action Taken Report (ATR) or SCN response submitted by the PP</td><td>:</td><td>CCR for expansion project's EC under EIA Notification 2006.</td></tr>
</table>

	d. Complaint received against the project e. Reference forwarded by the Ministry which inter-alia may include PMO, VIP, Public Grievance, Parliamentary, RTI references f. Direction by Hon'ble court or by the Ministry in various Court Matter g. Direction from the Ministry in any other matter		
22	Pending litigation if any or directions issued by any regulatory authority.	:	-
23	Recommendations a. Major Non-compliance b. Minor Non-Compliance c. Violation	:	Minor Non-Compliance

29/04/2015

Signature of the Inspecting Officer

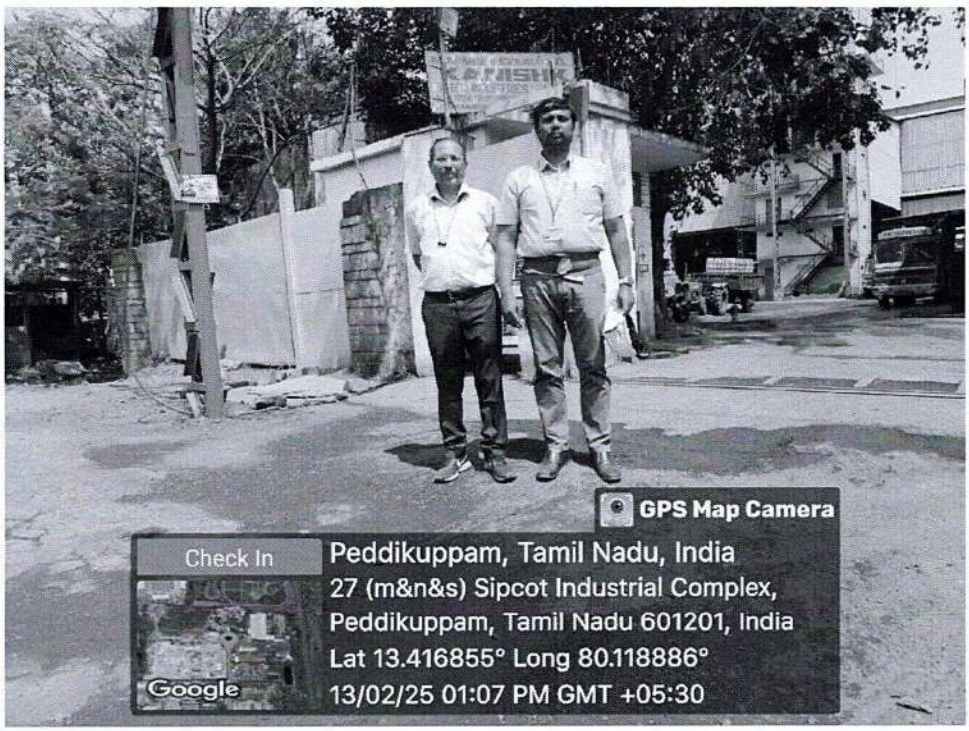
Dr.S.Pradeepkumar
Scientist 'B'
Government of India
Regional Office
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Haddows Road, Nungambakkam,
Chennai - 600 006, Tamilnadu.

CERTIFIED COPY OF THE COMPLIANCE REPORT

Subject : SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous).

Reference : a. SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020.

Date of Monitoring : **17/12/2024**



Present status of the Project:

The Project Proponent (PP) has obtained Environmental Clearance from SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020 for the project "*SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous)*".

2. The PP has obtained Consent to Establish from TNPC Board vide Consent Order No. 2206240023475 under Air Act dated 22/04/2022 which is valid up to 31/03/2027 and Consent Order No. 2206140023475 under Water Act dated 22/04/2022 which is valid up to 31/03/2027

3. The PP has obtained Consent to Operate from TNPC Board vide Consent Order No. 2307255530846 under Air Act dated 18/12/2023 which is valid up to 31/03/2033 and Consent Order No. 2307155530846 under Water Act dated 18/12/2023 which is valid up to 31/03/2033.

4. As mentioned in the request for CCR, the PP proposes for an expansion of production capacity under para 7(ii)(a) of the EIA Notification 2006 and MoEFCC – O.M. vide dated 11/04/2022 related to *"Guidelines for granting EC under para 7(ii)(a) of EIA Notification, 2006, for expansion up to 50%, within the existing premises/ mine lease area, without additional land acquisition"*.

i. The sub para (vii) of para 4 of above-mentioned O.M. is a fulfilment criterion for the consideration of projects under para 7(ii)(a) which is in relation to CCR. The extract of the same is as follows *"The PP should have satisfactorily complied the conditions stipulated in the existing EC(s)..... This shall be duly recorded in the certified compliance report issued by the IRO/ CPCB/ SPCB, which should not be more than one year old at the time of submission of application"*.

ii. As per the para 5 and its table of above-mentioned O.M., one of the procedures shall be adopted for processing the application for considering expansion of proposed project up to 50% of capacity as mentioned in the existing EC, in minimum three phases under para 7(II)(a) of EIA Notification, 2006 is requirement of Certified Compliance Report.

5. Further, based on the above-mentioned paras (i) & (ii) of 6, the PP has requested the Regional Office of MoEF&CC Chennai to provide Certified Compliance Report for the existing project.

6. The above project was monitored by the undersigned on 13/02/2025 along with the project proponent. The existing project is in operation. The report is submitted on the basis of the site visit and as per the information provided by the PP. The Status of the Compliance on the stipulated conditions contained in the EC cited above is given in Part II.

PART-II

Sl. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai
Statutory Compliance			
i)	The green belt should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied 33.17% of total plot area is developed as greenbelt area with native trees.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant **(Refer Site Visit Photos)**. At the same time, the PP has developed greenbelt in the land available outside the plant **(Refer Site Visit Photos)**.
ii)	The project proponent shall operate and maintain the sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.	Complied STP with the total capacity of 10 KLD is installed for treating the sewage generated. STP is continuously operated and we have achieved standards prescribed by the CPCB. The effluent generated from the cooling water is re-circulates continuously to the process.	**Complied** It was observed during the site visit that the PP has installed sewage treatment Plant which is in operation **(Refer Site Visit Photos)**. As it is a steel manufacturing plant, there is no generation of process effluents. Therefore, the PP has not installed the ETP at the plant. It was observed from the test report of STP treated water submitted by the PP that the test results are within the standards prescribed by the CPCB **(Annexure 1)**.
iii)	The project proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu. Safety Training Photos – Annexure IV Page No.80.	**Complied** It was observed from the documents submitted by the PP that safety audit in the different operating zones of the plant was carried out **(Annexure 1)**.
iv)	It is recommended to prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the	Complied As part of safety audit safety training program was conducted to the	**Complied** It was observed from the documents submitted by the PP that the PP has On-site emergency

	plant through appropriate training by the concerned experts.	employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.	response plan for safe operation for educating the safety standards to the work force deployed in the plant and the training has been given to the employees **(Annexure 1).**
v)	As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	Complied As a part of health surveillance Pre-medical examination for the employees has been carried out. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. Attached MOU Copy – Annexure V Page No.90.	**Not Complied** The PP has not submitted the relevant documents during the site visit.
vi)	The proponent shall strictly follows the norms and guidelines mentioned in the Hazardous Waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.	Compiled We are obtained authorization for handling the waste generation from TNPCB valid for a period up to 31/03/2027. HWA Authorization Copy - Annexure VI Page No.108.	**Complied** It was observed from the documents submitted by the PP that the PP obtained Hazardous Waste Authorization from TNPCB vide Authorization No.22HFC43641507 dated 30/08/2022 which is valid up to 31/03/2027 for the handling and disposal of Hazardous waste to be generated. **(Annexure 1).**
vii)	Necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.	Compiled Water is being supplied by the SIPCOT Necessary and Agreement made with SIPCOT is Attached – Annexure VII Page No.118.	**Complied** It was observed from the document submitted by the PP that the PP has made agreement for the supply of water from the water supply scheme, SIPCOT Industrial Complex **(Annexure 1).**
viii)	The proponent shall continuously operate and maintain the Air Pollution control measures to be provided.	Being Compiled Air Pollution control measures are continuous and efficiently operate.	**Complied** It was observed during the site visit that the PP has connected their air pollution control devices to TNPCB CARE AIR CENTRE **(Annexure 1).**

ix)	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous Waste storage yard where the hazardous wastes are being kept.	Compiled	**Complied** It was observed during the site visit that the PP has provide ventilation (air circulation) in the hazardous Waste storage yard **(Refer Site Visit Photos).**
x)	The sewage generated from the unit shall be treated and dispose through septic tank and soak pit arrangement.	Compiled A dedicated STP provided to handle sewage	**Complied** It was observed during the site visit that the PP has installed STP to treat the generated sewage.
xi)	The effluent generated from the process Should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.	Compiled Cooling water is being recycled for the manufacturing process. No effluent generated in our process.	**Refer Below** It was observed during the site visit that there is no generation of effluent from the production process as it is a steel manufacturing plant. Therefore, the PP has not installed ETP at the plant.
xii)	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe Conditions during the plant safety meeting.	Complied As a part of safety audit, safety training was conducted to the employees through Directorate of Industrial Safety	**Complied** It was observed from the documents submitted by the PP that safety audit in the different operating zones of the plant was carried out **(Annexure 1)**.
xiii)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable. The project location and activity does not attract the provisions of Forest (Conservation) Act,1986.	**Refer Below** The plant located inside the Industrial area (SIPCOT, Gummidipoondi) **(Annexure 1)**.
xiv)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden, Chennai NOC copy is attached here with for your reference-Annexure VIII Page No.124.	**Complied** It was observed from the documents submitted by the PP that the PP obtained the NOC from NBWL vide Ref No. WL5/ 21519/ 2022 dated 01/03/2024 **(Annexure 1).**
xv)	The project proponent shall prepare a Site-Specific Conservation plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden, Chennai	**Partly Complied** It was observed from the NOC obtained from NBWL vide Ref No. WL5/ 21519/ 2022 dated 01/03/2024 stating that the PP is requested to send the impact mitigation plan of marine and wildlife conservation of pulicat bird

	Management plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)		sanctuary. However, the PP has not provided the copy of the above-mentioned plan submitted to the NBWL.
xvi)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (Prevention & Control of Pollution) Act. 1974 from the concerned State pollution Control Board/Committee.	Complied Consent for Establishment is under Water Act obtained consent order Proceedings No. T2/ TNPCB/ F.0119GMP/ OL/ GMP/ W/ 2022 DATED: 22/04/2022 and CTE for under Air Act obtained vide PROCEEDINGS NO. T2/ TNPCB/ F.0119GMP/ OL/ GMP/ A/ 2022 DATED: 22/04/2022 from TNPCB Consent to Operate is obtained under Air (Prevention & Control of Pollution) Act,1981, PROCEEDINGS No. T1/ TNPCB/ F.0119 GMP/ OL// GMP/ A/ 2023, DATED: 08/12/2023 Consent to Operate is obtained under Water (Prevention & Control of Pollution) Act,1974, PROCEEDINGS No. T1/ TNPCB/ F.0119GMP/ OL/ GMP/ W/ 2023 DATED:08/12/2023. CTE and CTO Consent order under Water & Air Act is attached as Annexure – I & IX	**Complied** 1. The PP has obtained Consent to Establish from TNPC Board vide Consent Order No. 2206240023475 under Air Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1)** and vide Consent Order No. 2206140023475 under Water Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1).** 2. The PP has obtained Consent to Operate from TNPC Board vide Consent Order No. 2307255530846 under Air Act dated 08/12/2023 which is valid up to 31/03/2033 **(Annexure 1)**. 3. The PP has obtained Consent to Operate from TNPC Board vide Consent Order No. 2307155530846 under Air Act dated 08/12/2023 which is valid up to 31/03/2033 **(Annexure 1)**.
xvii)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	HWA authorization was obtained Vide Proceeding No. T2/ TNPCB/ F.0119GMP/ HWA/ OL/ GMP/ 2022 dated	**Complied** It was observed from the documents submitted by the PP that the PP obtained Hazardous Waste Authorization from TNPCB vide

		30/08/2022 and valid up to 31/03/2027 from TNPCB	Authorization No.22HFC43641507 dated 30/08/2022 which is valid up to 31/03/2027 for the handling and disposal of Hazardous waste to be generated. **(Annexure 1)**.
xviii)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Not Applicable. This industry is manufacturing Steel components there is no Manufacture, Storage or import of Hazardous Chemicals	**Refer Below** It was observed during the site visit that the plant is a steel manufacturing plant. It doesn't manufacture hazardous chemical.
Air Quality Monitoring and Preservation:			
i)	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied Online Continuous emission monitoring system provided in the stacks attached to the Induction Furnace -7T and Induction Furnace - 12Tcapacity and all connected to TNPCB and CPCB monitoring system	**Complied** It was observed from the site visit that the PP installed 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB **(Refer site photographs)** The PP has furnished DSL -340 Calibration report towards calibration of system **(Annexure 1)**.
ii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Complied Monitored by TNPCB.	**Complied** It was observed from the documents submitted by the PP that the PP monitored the fugitive emissions in the plant premises through TNPCB and submitted the test report vide ROA No.27/ AAQS/ 2024 - 25 dated 02/07/2024 **(Annexure 1)**.
iii)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and Nox emissions) within and outside the plant area at least at four locations (one within and	Complied Ambient Air Quality monitoring for the parameters PM 10,PM 2.5, SO2, NOx are carried by TNPCB labs survey dated 02/07/2024 and the copy of Results of Analysis enclosed in Annexure II	**Complied** It was observed from the documents submitted by the PP that the PP carried out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and Nox emissions) within the plant

	three outside the plant area at an angle of 120 each), covering upwind and downwind directions.		area at five locations namely Near Admin building, Labour quarters, storage yard, stores, laboratory and submitted the test report vide ROA No.27/ AAQS/ 2024-25 dated 02/07/2024 **(Annexure 1)**.
iv)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied Suitable Air pollution control measures Such as Bag filter to furnaces 7T & 12Tare provided Adequate stack height 32m respects to the 7T Induction Furnace and 12T Induction Furnace provided.	**Complied** It was observed during the site visit that the PP installed bag filters with adequate stack height from ground level for the emissions from the point source **(Refer Site Photos).** Further, to control fugitive emissions from DG Sets, the PP installed the DG set with acoustic enclosures **(Refer Site Photos).** The PP does not have coal fired boilers. The gaseous emissions were dispersed through stack of adequate height as per SPCB guidelines **(Refer Site Photos).**
v)	Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied We have provided enclosed shed for the storage of raw material to prevent dust pollution and other fugitive emissions.	**Complied** It was observed during the site visit that the raw materials were stored in covered areas to prevent dust pollution and other fugitive emissions **(Refer Site Photos).**
vi)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21st July, 2010 and amended from time to time shall be followed.	Not Applicable	**Refer Below** It was observed during the site visit that the Main Products manufactured at the plant is TMT bars.
vii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16th November 2009 shall be complied with.	NAAQ Emission standards complies with the latest TNPCB survey date 02/07/2024 report is enclosed.	**Complied** It was observed from the documents submitted by the PP that the PP submitted the test report vide ROA No.27/ AAQS/ 2024-25 dated 02/07/2024 which is in relation to National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826(E) dated 16th November 2009 **(Annexure 1)**.
Water quality monitoring and preservation:			
i)	The project proponent shall provide online continuous monitoring of effluent, the unit	Not Applicable	**Refer Below** It was observed during the site visit that the plant doesn't have ETP as

	shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)		there is no generation of process effluent.
ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).	Complied	**Refer Below** It was observed during the site visit that the plant doesn't have ETP as there is no generation of process effluent. Further, the domestic wastewater treated by STP and the treated STP water is used for gardening purposes.
iii)	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	Complied	**Refer Below** It was observed during the site visit that the plant doesn't have ETP as there is no generation of process effluent. Further, the domestic wastewater generated from the plant was treated by STP and the test results of STP outlet treated water are within the standards prescribed by the State Pollution Control Board **(Annexure 1).**
iv)	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	Complied All our water is recycled except for evaporation losses.	**Refer Below** It was observed from the agreement made between M/s.Kanish Steel Pvt Ltd. and SIPCOT Gummidipoondi that 5000 litre per day will be pumped. **(Annexure 1).**
v)	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Complied Zero liquid discharge maintained. Storm Water drain maintained.	**Complied** It was observed during the site visit that there were separate storm water drains provided **(Refer Site Photos).**
vi)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Complied Rain water harvesting (RWH) system provided	**Complied** It was observed during the site that the PP has provided pipeline from roof tops of the buildings and storm water drains **(Refer Site Photos).**
vii)	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant	Complied DG set 500 KVA provided with adequate Acoustic enclosures.	**Complied** It was observed during the site visit that the DG sets were provided with acoustic enclosures **(Refer Site Photos).**

	regulations and the guidelines in this regard.		
Noise monitoring and prevention:			
i)	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied Air pollution Control measures of Acoustic enclosures. Its silent Green Generator (No Stack) are provided to DG set for controlling noise pollution.	**Complied** It was observed during the site visit that the DG sets were provided with acoustic enclosures **(Refer Site Photos)**.
ii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all Sources of noise generation.	Complied Adequate noise control measures provided	**Complied** It was observed during the site visit that the overall noise levels in and around the plant area were within the standards by providing noise control measures including acoustic hoods, silencers, enclosures **(Annexure 1).**
iii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Complied TNPCB survey conducted on date 02/07/2024 Noise levels are within the standards prescribed.	**Complied** It was observed from the test report submitted by the PP vide ROA No.27/ AAQS/ 2024-25 dated 02/07/2024 for the Ambient Noise shows that the noise levels were within the standards prescribed by TNPCB **(Annexure 1)**.
Safety, Public hearing and Human health issues:			
i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied	**Complied** It was observed from the documents submitted by the PP that the PP has submitted Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan which was implemented. **(Annexure 1)**.
ii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Risk assessment study conducted on-site emergency preparedness plan available at site	**Complied** It was observed from the Fire Service License submitted by the PP vide L.DIS.NO. TN-3520240620103, 7382/ B/ 2024 dated 28/06/2024 which is valid for 01 year from the date of issue for the firefighting system **(Annexure 1)**. Further, it was observed during the site visit that the PP has installed the firefighting system in the plant **(Refer site photos).**

iii)	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied	**Complied** it was observed during the site visit that the PP has furnished Personal Protection Equipment (PPE) for the workers **(Refer site photos).**
iv)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Firefighting system provided around the plant as per the norms	**Complied** It was observed during the site visit that there is no chemical handling during the operation for the manufacturing process. The PP has submitted one of the Pre-employment and routine periodical medical examinations reports of employees **(Annexure 1).** Training to all employees on handling of fire and safety was imparted **(Annexure 1).**
v)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable No housing for labour provided at factory	**Refer Below** Due to the absence of construction work during the site visit, it was unable to ascertain the condition.
vi)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied OHS is being carried regularly	**Complied** It was observed from the documents submitted by the PP that the PP has arranged for a Medical Officer to provide periodic health services. The Medical Officer visits the industry fortnightly, offering healthcare services to the employees **(Annexure 1).**
vii)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	Complied We have provided enclosed shed for the storage of raw material to prevent dust pollution and other fugitive emissions.	**Complied** It was observed during the site visit that the adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking was allowed outside on public places **(Refer Site Photos).**
Corporate Environment Responsibility:			
i)	As per OM dated 30.09.2020 and 20.10.2020, the proponent shall	Complied	**Complied**

	furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB. comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.46 lakhs have been spent. CER details are Enclosed - 6 Page No.50	It was observed from the documents submitted by the PP that the PP has spent Rs.170.89 Lakhs towards air pollution control system, water pollution control system. Environmental Monitoring, Greenbelt development, rainwater harvesting and other, and recurring **(Annexure 1).** Further, the PP has spent Rs.17.46 Lakhs towards CER activities **(Annexure 1).**
ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied.	**Partly Complied** It was observed from the documents submitted by the PP that the PP has laid down environmental policy duly approved by the Board of Directors. The environmental policy prescribed for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest /wildlife norms/ conditions. The company have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The PP has not submitted the copy of the board resolution in this regard submitted to the MoEF&CC as a part of six-monthly report.
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell	**Complied** It was observed from the documents submitted by the PP that the PP has set up separate Environmental Cell at the project under the control of Board of Directors, where Environmental Engineer who will directly report to the Manager. **(Annexure 1).**

iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Complied EMP implemented EMP details are Enclosed - 7 Page No.51	**Not Complied** The PP has not furnished relevant documents.
v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Assured to comply	**Complied** It was observed from the documents submitted by the PP that the PP has conducted self-environmental audit **(Annexure 1).**
Waste management:			
i)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Being Compiled	**Complied** It was observed during the site visit that the PP stored the spent oil in the drums **(Refer Site Photos).** Further, it was observed during the site visit that there is no use of solvents in the operation of the manufacturing process.
ii)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Not Applicable	**Refer Below** It was observed during the site visit and documents submitted by the PP that there is no generation of process organic residue and spent carbon. Further, there is no ETP at the plant as there is no generation of process effluent.
iii)	The company shall undertake waste minimization measures as below: a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Being Compiled	**Refer Below** The following were observed during the site visit: a. The PP weighing the inlet raw materials through the weighing bridge at the Plant. b. The PP reuses the by-product from the process as raw materials. c. The process of automated filling to minimize spillage were not initiated at the pant due to the

	c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.		mechanical feeding of raw materials into the furnace. d. It was observed during the site visit that there are no batch reactors at the plant. e. It was observed during the site visit that there is no vapour recovery system as there is no vapour generation from the manufacturing process. f. It was observed during the site visit that there is no ETP at the plant as there is no generation of process effluent.

SPECIFIC CONDITIONS

S. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai
1	It is mandatory for the project proponent to furnish to the SEIAA, half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.	Agreed to comply Copy of half year Compliance report for the period October 2023 to March 2024 is furnished to SEIAA, IRO-MoEFCC, DEE-TNPCB, JCEE-TNPCB, & CPCB. Copy of half year Compliance report for the period April 2024 to September 2024 is submitted here with.	**Refer Below** It was observed from the documents submitted by the PP during the site visit that the PP has submitted the latest Six-monthly compliance report for the period of October 2023 to March 2024 vide dated 16/12/2024 to SEIAA-TN **Annexure – 1.**
2	"Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.	Complied "Consent for Establishment" is obtained vide under Water Act vide Proceedings No. T2/ TNPCB/ F.0119GMP/ OL/ GMP/ W/ 2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/ TNPCB/ F.0119GMP/ OL/ GMP/ A/ 2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu.	**Complied** 1. The PP has obtained Consent to Establish from TNPC Board vide Consent Order No. 2206240023475 under Air Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1)** and vide Consent Order No. 2206140023475 under Water Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1).**
3	"Consent to Operate" should be obtained from the Tamil	Complied.	**Complied**

	Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.	The Consent to Operate is obtained, as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No. T1/ TNPCB/ F.0119GMP/ OL/ GMP/ W/ 2023 DATED: 08/12/2023 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. T1/ TNPCB/ F.0119GMP/ OL// GMP/ A/ 2023DATED: 08/12/2023 Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. Copy of CTO renewal of Air Act & Water Act is attached in Annexure IX Page No.127 & 135	1. The PP has obtained Consent to Operate from TNPC Board vide Consent Order No. 2307255530846 under Air Act dated 08/12/2023 which is valid up to 31/03/2033 **(Annexure 1)**. 2. The PP has obtained Consent to Operate from TNPC Board vide Consent Order No. 2307155530846 under Air Act dated 08/12/2023 which is valid up to 31/03/2033 **(Annexure 1)**.
4	The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.	Complied M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out, as proposed and committed. Regular monitoring carried out during operation phases.	**Complied** It was observed during the site visit and the documents submitted by the PP that the PP has implemented Environmental Management Plan in regard to treatment and disposal of sewage, Solid waste Management, Hazardous - Waste Management, and CSR Activities was carried out. Monitoring was carried out during operation phases. The PP has spent Rs.170.89 Lakhs towards air pollution control system, water pollution control system. Environmental Monitoring, Greenbelt development, rainwater harvesting and other, and recurring **(Annexure 1).** Further, the PP has spent Rs.43.22 Lakhs towards CSR activities **(Annexure 1).**
5	Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational - health	Complied. Adequate dust extraction system provided to handle and the emission from furnace. AAQ standards are achieved. (TNPCB survey	**Complied** It was observed during the site visit that the PP provided dust extraction system with bag filter to achieve Occupational Health Standards and Ambient Air Quality Standards **(Refer Site Photos).**

	standards and ambient air quality standards.	dated 26.06.2024 report Enclosed	
6	The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.	Being complied. M/s KSIL industry total land use 4.98% is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. Where the Raw materials and products are stored separately based on their properties in the designated places. Photographs of the product storage area are attached herewith. Enclosed -8 Page No.52	**Complied** It was observed during the site visit that the PP practices housekeeping to control spillage for handling and maintenance of raw materials and products inside the unit premises **(Refer Site Photos).**
7	Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.	Not applicable No hazardous chemicals handled.	**Complied** It was observed during the site visit that the PP displayed the Do and Don'ts at all vital locations **(Refer Site Photos).**
8	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.	Being Complied	**Refer Below** It was observed from the Form-V submitted by the PP vide dated 10/12/2024 that the generation of hazardous waste is NIL. However, spent oil was generated at the plant.
9	The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.	Complied Hazardous wastes are stored in a separate place.	**Complied** It was observed during the site visit that the PP has provided a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed **(Refer Site Photos).**
10	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed of	Complied Hazardous Waste handed through recycler as per authorization.	**Complied** It was observed from the documents submitted by the PP that the PP collected the spent oil from D.G sets in HDPE Drums and stored in a covered roof area. The collected spent oil disposed through authorized recyclers as per the Authorization obtained **Annexure – 1.**

	through TNPCB registered recyclers.		
11	The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.	Agreed to comply We agree to compiled with provisions of Plastic Waste (Management & Handling) Rules 2016.	**Refer Below** It was observed during the site visit that the generation of plastic waste at the plant premises seems to be very meagre and disposed to the daily waste collection vehicle arrived at the plant.
12	The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e-waste (Management & Handling), Rules 2016 as amended.	Agreed to comply We agree to compiled with provision of waste (Management & Handling) Rules 2016.	**Refer Below** It was observed during the site visit that the generation of e- waste at the plant premises seems to be very meagre.
13	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016	Agree to comply We agree to compiled maintain with provision of Solid Waste Management Rules, 2016.	**Refer Below** It was observed during the site visit that the generation of Municipal solid waste at the plant premises seems to be very meagre and disposed to the daily waste collection vehicle arrived at the plant.
14	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM2.5, SOx, NOx; through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.	Being Complied TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox & NOx etc.,	**Complied** It was observed from the documents submitted by the PP that the PP conducted air monitoring for the parameters (PM10, PM2.5, SO2, NOx through TNPCB and maintained records vide ROA No.27/ AAQS/ 2024-25 dated 02/07/2024 **Annexure – 1.**
15	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	Complied Through TNPCB lab analysis	**Complied** It was observed from the documents submitted by the PP that the PP monitored the air quality, water quality and noise on the selected locations inside the project site and the PP submitted the test reports **Annexure – 1.**
16	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists,	**Complied** It was observed from the documents submitted by the PP that the PP has separate environment and safety management cell for implementation of the stipulated

	of the stipulated environmental safeguards.	Administrative staff and officer. The organizational structure of Environment Management Cell is presented in Annexure As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu. Safety Training Photos is attached as Annexure– IV	environmental safeguards **Annexure – 1.**
17	The Green belt area already developed within the project area shall be properly maintained.	Agreed to comply	**The PP agreed to Comply**
18	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied The greenbelt area for 33.17% of total land which has area of 1.0 ha developed.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt which is not covered 33% of the total project area mainly along the plant periphery, in downward wind direction, and along road sides etc.
19	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.	**The PP agreed to comply.**
20	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities	**Not Complied** The PP has not provided the relevant documents during the site visit.
21	The energy sources for lighting purposes shall preferably be LED based.	Complied. LED lights are provided for lighting purposes.	**Complied** It was observed during the site visit that the PP has installed LED lamps used for lighting.

22	The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.	Being Complied Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted.	**Refer Below** It was observed from the documents submitted by the PP that the PP has established Online Continuous Emission monitoring system for stack within the premises. And monitoring of Ambient air Quality through TNPCB **(Annexure 2).**
23	Risk cum disaster management plan should be in placed in the industry premises at all time.	Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan is attached as Annexure X Page No.144.	**Complied** It was observed from the documents submitted by the PP that the PP has submitted the Risk Cum disaster management plan, which is to tackle the consequences of a major emergency inside the factory. **(Annexure – 1).**
24	Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.	Complied. Rain water harvesting (RWH) system is implemented.	**Complied** It was observed during the site visit and the documents submitted by the PP that the PP implemented water conservation scheme including rain water harvesting measures to augment ground water resources.
25	The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.	Being Complied Adequate Storm water drains are provided.	**Complied** It was observed during the site visit that the PP has constructed the storm drain channel in and around premises which was laid through natural drainage pathways for disposal of excess rainfall in area **(Refer Site Visit Photos).**
26	The environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT / Hon'ble High Court of Madras.	Agreed to Comply.	**The PP agreed to comply**
27	All the assurances given in EIA and EMP shall be adhered strictly.	Complied.	**The PP agreed to comply**

28	Detail study shall be carried out by engaging accredited agencies/reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.	Complied. Onsite emergency management plan are prepared and available site premises to manage risk.	**Complied** It was observed from the documents submitted by the PP that the PP has submitted the Risk Cum disaster management plan, which is to tackle the consequences of a major emergency inside the factory. **(Annexure – 1).**
29	Sufficient funds should be provided for Disaster management.	Complied. Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.	**Not Complied** The PP has not provided relevant documents during the site visit.
30	The project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.	Complied The treated wastewater of 7.9 KLD from the STP is recycled for greenbelt development after disinfection.	**Complied** The PP has provided disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening **(Annexure – 1).**
31	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.	Being Complied M/s KSIL provided sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste are being kept.	**Complied** It was observed during the site visit that the PP provided the ventilation where generated spent oil collected in HDPE Drums and stored in a Hazardous waste storage shed **(Refer Site Visit Photos).**
32	The project proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	Being Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.	**Complied** It was observed from the documents submitted by the PP that the PP has carried out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting **(Annexure – 1).**
33	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Complied Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.	**Complied** It was observed from the documents submitted by the PP that the PP has On-site emergency response plan for safe operation for educating the safety standards to the work force deployed in the plant and the training has been given to the employees **(Annexure 1).**
34	If the plant operation involves the sensitive processing, the	Being Complied	**Not Complied**

	medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.	The PP has not submitted the relevant documents during the site visit.
35	The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.	Complied Our industrial activity is not having any impact on the surrounding agriculture and irrigation system	**Complied** It was observed during the site visit that the activity did not cause any impact on agriculture, Irrigations system and mangroves surrounding the area.
36	The EMP cost of Rs.45 lakhs for capital cost and recurring cost Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment –Enclosure-9 page No.53	**Not Complied** The PP has not provided the relevant documents during the site visit.
37	There should be no threat to Bio diversity due to the operation of the industry.	Agreed to comply Due to the operation of the M/S KSIL industry there is no threat to Bio diversity.	**Complied** It was observed during the site visit that the plant was located in the SIPCOT industrial area (Gummidipoondi). Therefore, no threat to Bio diversity due to the operation of the industry.
38	The Project Proponent has to provide rain water harvesting collection tank capacity with Recharging pit in order to	Complied Rain Water Harvesting percolation pits constructed along the periphery of the plant for	**Complied** It was observed during the site that the PP has provided pipeline from roof tops of the buildings for the

	recover and reuse the rain water during normal rains.	ground water recharge from rain water.	rainwater harvesting and recharge pits **(Refer Site Photos)**.
39	The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.	Being Complied The operation of mill does not have any impact on the soil, micro flora& Fauna present in and around the project site.	**Refer Below** It was observed during the site visit that the PP provided APC Measures to control the emissions, the wastewater was treated in STP and reused, Hazardous waste stored in earmarked area with necessary precaution & disposed to authorized Recycler pre-processing / Utilizable waste facilities **Annexure – 1.**
40	The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.	Not Applicable	**Not Complied** The PP has not provided the relevant documents during the site visit.
41	The Project proponent shall carry out risk assessment process for all the operation involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.	Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities.	**Complied** It was observed from the documents submitted by the PP that the PP has submitted Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan which was implemented. **(Annexure 1)**.
42	The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.	Being Complied Housekeeping measures are done regularly and including scraps disposal and up keeping the machineries, pipes etc.,	**Complied** It was observed during the site visit that the PP practices housekeeping to control spillage for handling and maintenance of raw materials and products inside the unit premises **(Refer Site Photos).**
43	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.	Complied The CER activities for the amount of 17.46 lakhs have been spent. Attached Affidavit as Annexure –III Page No.78	**Complied** The PP has spent Rs.17.46 Lakhs towards CER activities **(Annexure 1).**

General Conditions:

S. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai
1.	The Environmental Clearance does not absolve the applicant	Agreed to comply	**The PP agreed to Comply**

	/ proponent of his obligation / requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.		
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.	Agreed to comply	**The PP agreed to Comply**
3.	"Consent for Establishment" for expansion shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.	Complied CTE was obtained from TNPCB.	**Complied** The PP has obtained Consent to Establish from TNPC Board vide Consent Order No. 2206240023475 under Air Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1)** and vide Consent Order No. 2206140023475 under Water Act dated 22/04/2022 which is valid for up to 31/03/2027 **(Annexure 1).**
4.	Proper Housekeeping shall be ensured and all the raw materials including scrap, coal etc., shall be stored at designated places.	Being Complied Proper housekeeping is done and all the raw material including scrap, coal etc., are stored at designated places.	**Complied** It was observed during the site visit that the PP practices housekeeping to control spillage for handling and maintenance of raw materials and products inside the unit premises **(Refer Site Photos).**
5.	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.	Complied Rain water harvesting measures provided inside plant	**Partly Complied** It was observed during the site visit that the PP has installed rain water harvesting measures and developed water storage for use in operation of the plant **(Refer Site Photos).** The copy of action plan for implementation submitted to the MoEF&CC Regional Office within six months has not submitted.
6.	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the	Complied The CSR activities for the amount of · 43.22 lakhs have been spent. We undertake various socio economic schemes	**Complied** It was observed from the documents submitted by the PP that the PP has spent Rs.43.22 Lakhs towards CSR activities **(Annexure 1).**

	nearby villages and schools shall be undertaken in a time bound manner.	under CSR schemes in the surrounding villages like • Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. Enclosed -10 Page No.55	
7.	The Project proponent has to spend the CER Fund of Rs.8.45 Lakhs (2% of the project cost for the various activities as per MoEF&CC OM dated 1.05.2018.	Complied The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.46 lakhs have been spent.	**Complied** It was observed from the documents submitted by the PP that the PP has spent Rs.17.46 Lakhs towards CER activities **(Annexure 1).**
8.	CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.	Complied We undertake various socio economic schemes under CSR schemes in the surrounding villages like • Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt. primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.	**Complied** It was observed from the documents submitted by the PP that the PP has addressed Public Hearing issues through CSR schemes and undertaken based on need assessment in and around the Villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration **(Annexure 1).**
9.	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest	Agreed to comply	**Partly Complied** It was observed from the documents submitted by the PP that the PP has in-built monitoring mechanism for the schemes identified in place and

	government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.		annual social audit was done **(Annexure 1).** The copy of the status of implementation of the scheme from time to time was not submitted by the PP.
10.	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.	Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands whenever required.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant area **(Refer Site Photos).**
11.	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer.	**Complied** It was observed from the documents submitted by the PP that the PP has set up separate Environmental Cell at the project under the control of Board of Directors, where Environmental Engineer who will directly report to the Manager. **(Annexure 1).**
12.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.	Complied. The industrial planner takes steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are taken: • Conducting awareness programs at regular intervals to the employees • Providing safety kits and prevention kits • Provision of Clinic at the plant site to handle emergency situations that may arise.	**Not Complied** The PP has not provided relevant documents during the site visit.

		M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.	
13.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Complied Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others	**Refer Below** It was observed from the documents submitted by the PP that the PP has spent Rs.170.89 Lakhs towards air pollution control system, water pollution control system. Environmental Monitoring, Greenbelt development, rainwater harvesting and other, and recurring **(Annexure 1).**
14.	The proponent shall furnish an undertaking that they will abide by the conditions / recommendations mentioned in the EMP report furnished by them.	We are implemented EMP mention in affidavit.	**The PP agreed to comply.**
15.	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.,	Complied M/s. KSIL undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. • Enhanced library facility for Pedikuppam Govt. School • Provision of educational Kits and accessories to nearby Govt. School. • Safe drinking water for nearby Villages.	**Complied** It was observed from the documents submitted by the PP that the PP has undertaken socio-economic development activities in the surrounding villages like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages **(Annexure 1).**

		• CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby. • Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.	
16.	The Project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh.nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.	Compiled The details of Environmental Clearance obtained have been published in 2 local Daily News papers. Enclosed -11 Page No.55	**Partly Complied** It was observed from the documents submitted by the PP that the PP has informed the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and seen at Website of SEIAA, TN at parivesh.nic.in. **Annexure – 1.** No information was provided regarding the advertisement published within seven days from the date of issue of the clearance letter, however, the PP has published in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned. A copy of the same forwarded to the Regional Office of the MoEF at Bengaluru was not submitted.
17.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the	Being Complied We hereby submitting six-month compliance report for the period of April 2024 to September 2024.	**Complied** It was observed from the documents submitted by the PP during the site visit that the PP has submitted the latest Six-monthly compliance report for the period of October 2023 to March 2024 vide dated 16/12/2024 to SEIAA-TN **Annexure – 1.** The copy of the six-monthly compliance report put on the website of the Company by the proponent **Annexure – 1.**

	website of the Company by the proponent.		
18.	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. Copy of Form V – Annexure XI Page No.157	**Partly Complied** It was observed from the documents submitted by the PP that the PP has submitted the Environmental Statement in Form V to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently **Annexure – 1.** The copy of the same was not put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.
19.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied Six months compliance report for the period of April 2024 to September 2024 is submitted herewith. We are uploaded in the company website that is www.kanishksteels.in	**Complied** It was observed from the website the copy of EC and Half Yearly Report for the period of Oct 2023 to March 2024 are available **Annexure – 1.** The copy of the same was not submitted which was sent to the Regional Office of MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project was monitored and displayed near the main gate of the company in the public domain **(Refer Site Photos)**.
20.	Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied We have obtained CTE before starting the project and CTO obtain before operating the project.	**Not Complied** The PP has not submitted the relevant documents during the site visit.

21.	Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.	Agreed to comply We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.	**The PP agreed to comply.**
22.	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air/emission standards prescribed by the CPCB/ MoEF&CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.	Air Pollution Control (APC) measures are provided to all the Furnaces to achieve the air/emission standards prescribed by the CPCB/ MoEF & CC and same also connected to the CARE AIR centre of TNPCB for online monitoring and Stack monitoring Survey are done by TNPCB and Survey report are Attached for reference.	**Complied** It was observed during the site visit that the PP has provide the air pollution control measures to all the furnaces to achieve the air/emission standards prescribed by the CPCB/ MoEF&CC and same was connected to the CARE AIR centre of TNPCB for online monitoring **(Annexure 1 and Site Photos).**
23.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may al so impose	Agreed to comply.	**The PP agreed to comply.**
24.	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.	Complied	**The PP agreed to comply.**
25.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection)Act,1986.	Agreed to Comply.	**The PP agreed to comply.**
26.	In case of any deviation or alteration in the project	Agreed to Comply.	**The PP agreed to comply.**

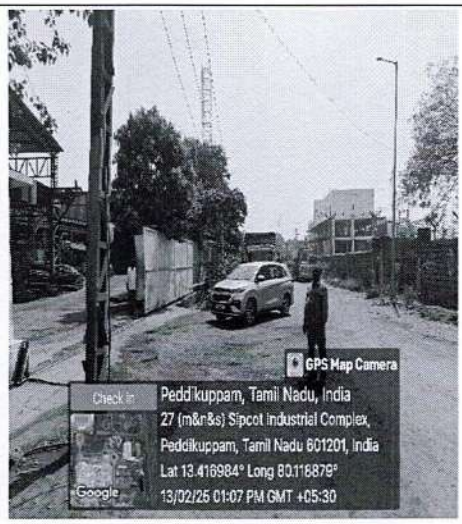
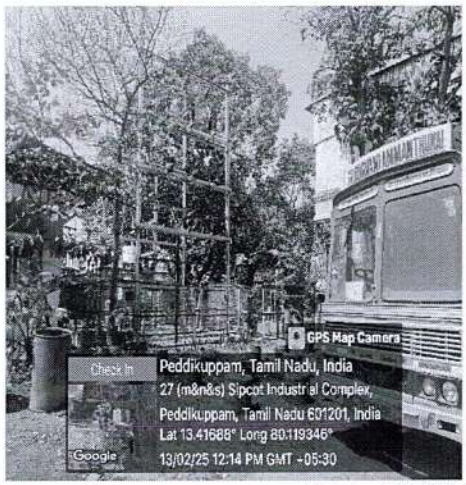
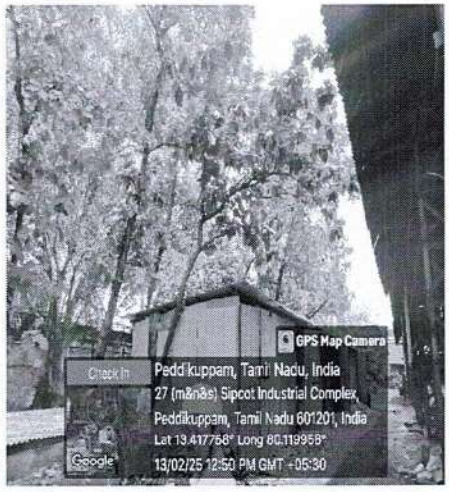
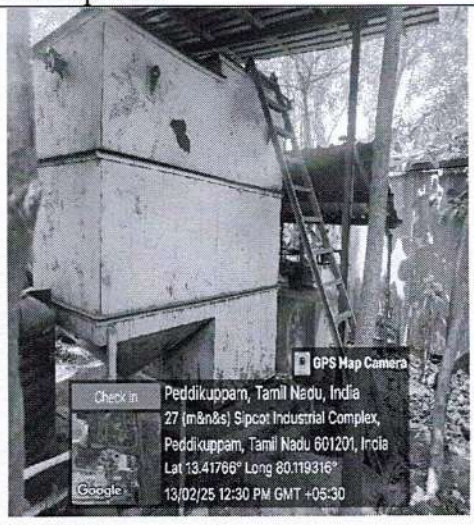
	proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.		
27.	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.	Agreed to Comply.	**The PP agreed to comply.**
28.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No appeal was made during the specified period.	**The PP agreed to comply.**

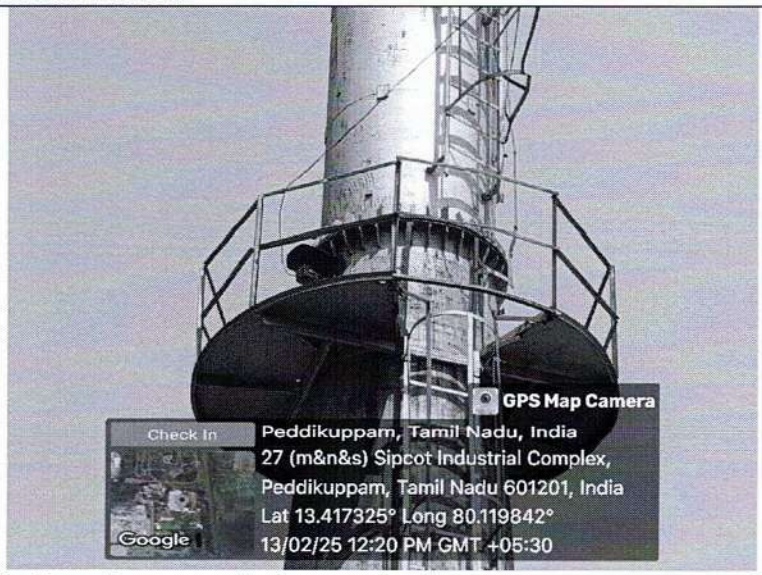
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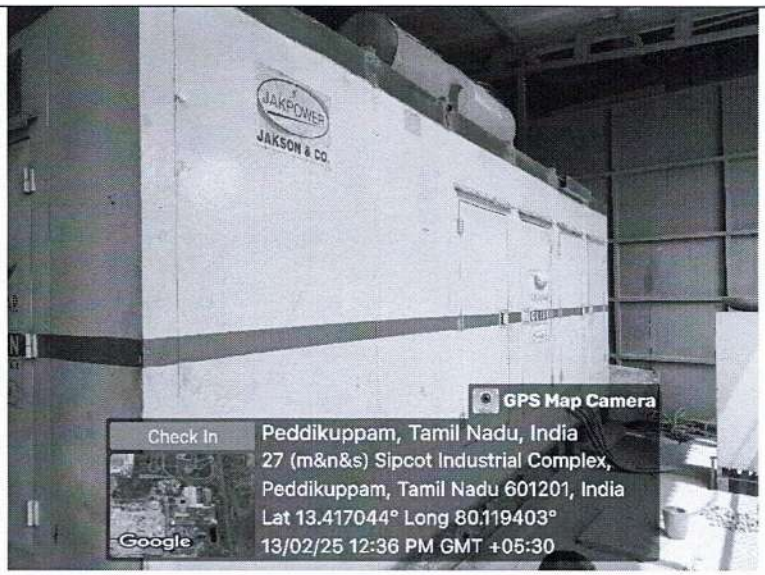
Signature of the Inspecting Officer

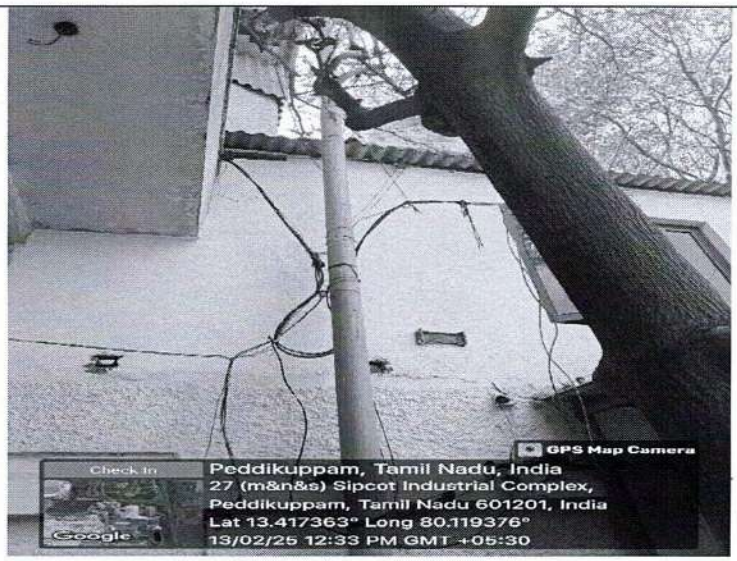
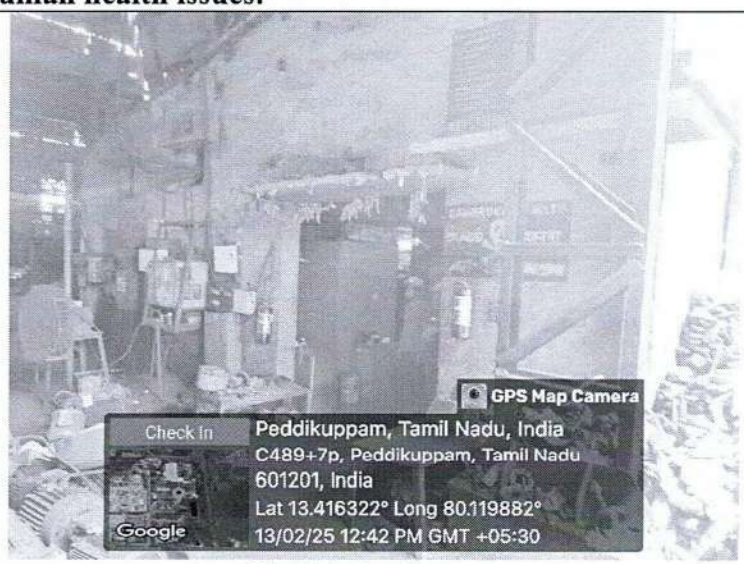
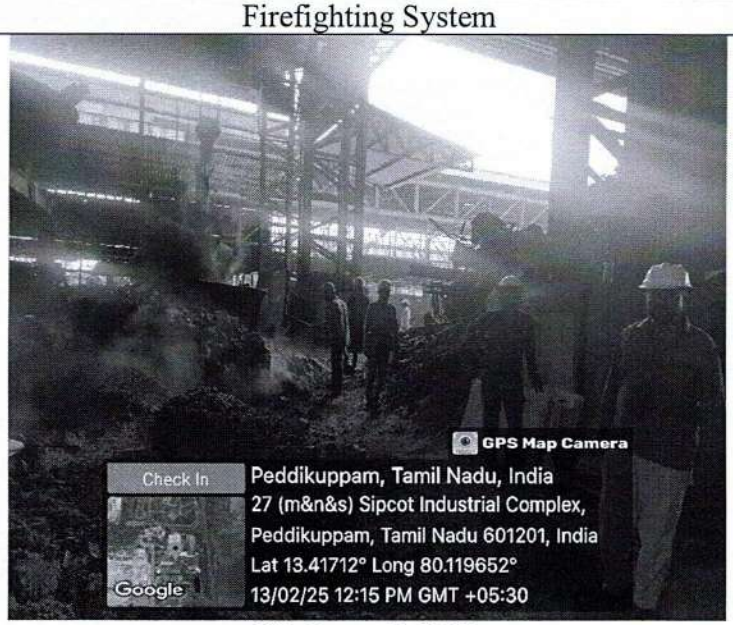
Dr.S.Pradeepkumar
Scientist 'B'
Government of India
Regional Office
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Haddows Road, Nungambakkam,
Chennai - 600 006, Tamilnadu.

SITE PHOTOGRAPHS

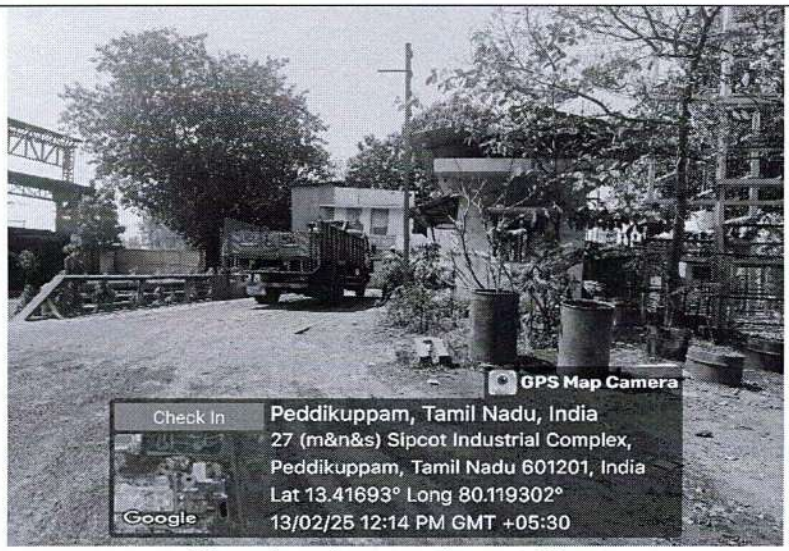
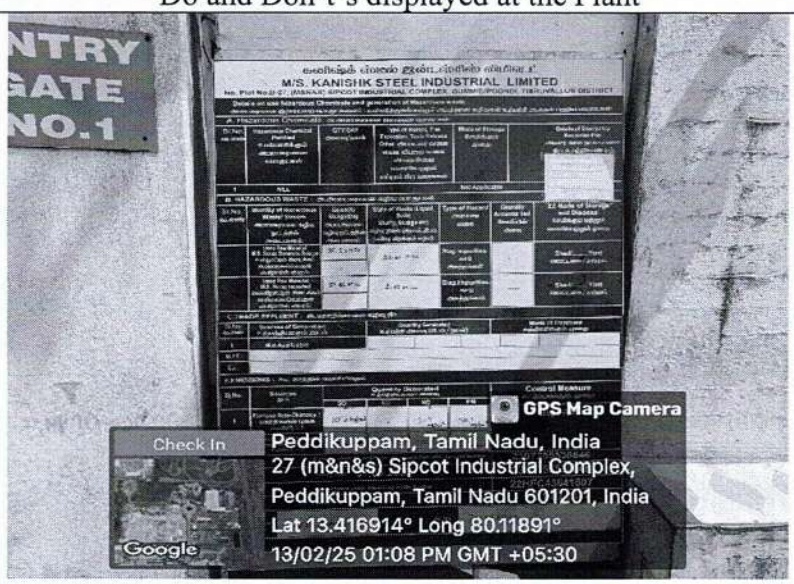
Sl. No.	EC Conditions Nos.	Site Photographs
Statutory Compliance		
1	(i)	    Green Belt Development
2	(ii)	  STP at the Plant

3	(ix)	 Ventilation (air circulation) in the Hazardous Waste storage yard
Air Quality Monitoring and Preservation:		
4	(i)	 24x7 continuous emission monitoring system at process stacks
5	(iv)	 Bag Filter and Stack height from ground level.

6	(iv)	 DG Set at the Plant
7	(v)	 Raw materials were stored in covered areas
Water quality monitoring and preservation:		
8	(v)	 Storm Water at the Plant

9	(vi)	 Roof top rainwater harvesting
Safety, Public hearing and Human health issues:		
10	(ii)	 Firefighting System
11	(iii)	 Worker with PPE

12	(vii)	 Parking inside the Plant
Waste management:		
13	(i)	 Hazardous Waste stored in drums
14		 Dust Extraction System at the Plant

SPECIFIC CONDITIONS		
15	6	 Housekeeping practices at Plant
16	7	 Do and Don't's displayed at the Plant
17	19	 The criteria pollutant levels were monitored and displayed near the main gate of the company in the public domain

18	22	 Online monitoring (CARE AIR)

29/04/2025

Signature of the Inspecting Officer

Dr.S.Pradeepkumar
Scientist 'B'
Government of India
Regional Office
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Haddows Road, Nungambakkam,
Chennai - 600 006, Tamilnadu.



KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.com

ISO 9001

Regional Office (SEZ)
Diary No: 346
Date: 24/01/25
MoEF & CC, Chennai

Dr. SPR Sir 'B'

Date:24/01/2025

To,
The Additional Principal Chief Conservator of Forests (Central),
Ministry of Environment, Forests and Climate Change, Regional
Office (South Eastern Zone),
1st Floor, Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road,
Nungambakkam, Chennai-600 006

Sub: Request for Certified Compliance Report (CCR) for the Expansion of Steel Melting Plant and Rolling Mill for the Production of Re-Rolled Products and MS Billets – M/s. Kanishk Steel Industries Limited,Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District.

Ref.

1. Environmental Clearance vide letter no. SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10.11.2020.
2. Consent for Establishment Expansion Water Act Order No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 dated 22/04/2022 and Air Act Order No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 dated 22/04/2022 from TNPCB.
3. Consent to Operate Expansion Air Act Order No. T1/TNPCB/F.0119GMP/OL/GMP/A/2023 dated 08/12/2023 and Water Act Order No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023 dated 08/12/2023.
4. Our 1st request letter dated 30/09/2024 to issue the Certified Compliance Report addressed to IRO,MoEFCC ,Chennai.
5. Reply letter from IRO,MoEF&CC vide letter No. F.NO./12.1/2024-25/1619 dated:14/10/2024.
6. Our 2nd request letter dated 23/12/2024 to issue the Certified Compliance Reportaddressed to IRO,MoEFCC ,Chennai.
7. Reply letter from IRO,MoEF&CC vide letter No.E.P./12.1/2024-25/SEIAA/98/TN/33 dated:09/01/2025.
8. MoEF&CC OM vide letter.F.No.IA3-22/10/2022-IA.III[E177258]ondated 11.04.2022.
9. MoEF&CC OM vide letter.F.No. IA3-22/10/2022-IA.III[E1772581]ondated08/06/2022.

KANISHK STEEL INDUSTRIES LTD. CHENNAI-4

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Dear Sir,

This is with reference to the Environmental Clearance (EC) granted to our plant for theexpansion of the Steel Melting Plant and Rolling Mill, issued by SEIAA-TN under letter no. SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10.11.2020. Our unit has obtained EC for the expansion of the Steel Melting Plant and Rolling Mill, with the production capacity increased from36,000TPA(tonsperannum)to83,000TPAforMSBilletsandfrom54,000TPAto

76,000 TPA for Rolled Steel Products. This project was previously categorized under Category B1 of Schedule No. 3(a) [Metallurgical Industries - Ferrous and Non-ferrous].

Additionally, we have obtained Consent for Establishment (CTE) Expansion from the TNPCB under the Water Act (vide Order No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022) and the Air Act (Order No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022) dated 22/04/2022, and Consent to Operate (CTO) Expansion under Orders No. T1/TNPCB/F.0119GMP/OL/GMP/A/2023 and T1/TNPCB/F.0119GMP/OL/GMP/W/2023 dated 08/12/2023 (Water and Air Act Orders).

We now propose to further expand the production capacity, as per para 7(ii)(a) of the EIA Notification, 2006and MoEF&CCOMvide letterF.No.IA3-22/10/2022-IA.III[E177258]dated 11.04.2022. This will involve increasing the production of MS Billets from 83,000 TPA to 91,000 TPA and the production of re-rolled products from 76,000 TPA to 88,000 TPA. The proposedexpansionwillresult ina9.64%increase inMSIngots/Billetsproductionanda15.79% increase infinalre-rolled products.The expansioninvolves the modificationofthe existing 1 x7 T/h furnace to a 1 x 10 T/h capacity. Additionally, the utilization of a reheating furnace with a capacity of 15 T/h, which is currently idle, will be implemented, using Indonesian coal as fuel with an annual consumption of 4,200 TPA and operation for 60 days per year. The expansion is proposed to be categorized under Category B1 of Schedule No. 3(a) [Metallurgical Industries - Ferrous and Non-ferrous].

In response to the above, a reply letter was received from IRO, MoEF&CC vide letter No. E.P./12.1/2024-25/SEIAA/98/TN/33 dated 09/01/2025, stating that the Ministry examined the application and supporting documents submitted for the second time. It was noted that the following necessary supporting documents were missing, as per the Office Order F.No.EP/12.1/2021-22/Misc/11/TN/502 dated 12th April2024 and its checklist: a. CopyofToR, if the proposal is categorized as A or B (or) b. Minutes of the Meeting, if the proposal is categorized as B2 c. Copy of the full-length latest Six-monthly compliance report.

KANISHK STEEL INDUSTRIES LTD. CHENNAI-4

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

As per the OM dated 11.04.2022 issued by MoEF&CC regarding guidelines for granting Environmental Clearance (EC) under scenario 5(ii), the project may be considered up to 20% expansion based on environmental safeguard conditions, with a revised EIA/EMP report and CCR report, without requiring a fresh public hearing. The project proponent is required to apply throughthe PARIVESH portalusing the requisite formalong with an EIA/EMP report based on standard ToRs. Inthis context, the expansion project can proceed based onthe standard ToRs as per the OM mentioned above.

Furthermore, according to the Standard ToRs (Point No. 3, subsection X(a)), it is mandatory to submit a certified compliance report fromthe RegionalOffice ofMoEF&CC, detailing the status of compliance with the conditions stipulated in the existing environmental clearances, including any amendments. While applying for EC on the PARIVESH portal and filling out OnlineFORM-1 Part –C(Point No.8),it isalso mandatoryto submit a certified compliance report from the Regional Office of MoEF&CC on the status of compliance with the conditions stipulated in the existing environmentalclearances. Ifsucha report has not beenobtained, the reasons for this need to be clearly stated.

Inlight oftheabove, wearesubmittingthe followingdocuments fortheprocessofCCR byIRO, MoEF&CC:

1. Copy of thefull-lengthlatestSix-monthlyEnvironmental Clearance(EC)Compliance with Annexes for the period of April 2024 to September 2024.
2. ChecklistwithAnnexure.

Additionally, for the expansion/modernization proposal: a. Copy of all Environmental Clearances, including amendments, obtained for the project from MoEF/SEIAA, shall be attached as an Annexure. A certified copy of the latest Monitoring Report from the Regional Office of MoEF, as per the circular dated 30th May 2012, on the status of compliance of conditions stipulated in all existing environmental clearances, including amendments, shall be provided.

As per the above, ToR is not a pre-requisite document for our process of obtaining Environmental Clearance. We are required to submit the CCR along with the EC application. Thus, this expansion project can proceed based on the standard ToRs, as per the OM dated 11/04/2022, for consideration of EC.

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ISO 9001

We are readyto submit our application for EnvironmentalClearance for the proposed expansion under para 7(ii)(a) of the EIA Notification, 2006 on the PARIVESH portal. To facilitate this process, we kindly request your office to issue a Certified Compliance Report (CCR) for the conditions outlined in the existing EC at the earliest.

Thankingyou,

For**KanishkSteelIndustriesLimited,**

for Kanishk Steel Industries Ltd.

AshokBohra,
Director

Director

Enclosures:

1. CopyofEnvironmentalClearancevide letterno.SEIAA TN/F.No.6430/EC/3(a)/78/2020 dated 10.11.2020.
2. Copyofthe fulllengthlatest SixmonthlyEnvironmentalClearance(EC)Compliance with its Annexes for the period ofApril 2024 to September 2024.
3. CopyofChecklistwithitsAnnexures.

ENCLOSURE -1

Copy of Environmental Clearance vide letter no. SEIAA TN/F.No.6430/EC/3(a)/78/2020 dated 10.11.2020

Thiru.K.V.GIRIDHAR, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No. 6430/EC/ 3(a)/ 78/2020 dated:10.11.2020

To

M/s. Kanishk Steel Industries Ltd
S.F.No.B27, (N.M.S) , SIPCOT Industrial Complex,
Peddikuppam Village,
Old Gummidipoondi Taluk,
Tiruvallur District.

Sir,

Sub: SEIAA-TN– Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance - Category B1 & Schedule item lo. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) - Issued – Regarding.

Ref:
1. Terms of Reference issued vide SEIAA Lr. No.SEIAA/ F.No.6430/2017/ 3(a)/ KSI/TOR-292/2017, Dated: 15.11.2017.
2. EC Application along with EIA Report date 29.08.2019.
3. Minutes of Public hearing from TNPCB dated: 09.07.2019.
4. Minutes of the 140th Meeting of SEAC held on 10.12.2019

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5. Minutes of the 173rd Meeting of SEAC held on 10.09.2020.
6. Minutes of the 402nd Meeting of SEIAA held on 07.10.2020.
7. Minutes of the 404th Meeting of SEIAA held on 14.10.2020.

This has reference to your Environmental Clearance application dated 06.12.2018 applied to SEIAA-TN and subsequent communication on the above mentioned subject by M/s. Kanishk Steel Industries Ltd for the Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu under Item No. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) & Category 'B1'of the Schedule to the EIA Notification, 2006.

1. The project proponent M/s. Kanishk Steel Industries Ltd applied seeking Terms of References on 15.11.2017 to SEIAA for Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu .
2. Terms of Reference (ToR) was issued vide SEIAA Letter No:SEIAA-TN/F.No.6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017.
3. Based on the ToR issued vide SEIAA , the proponent prepared the EIA report and submitted the same to SEIAA-TN on 29.08.2019.
4. The proposal (EIA report) was placed in the 173rd meeting of SEAC held on 10.09.2020. The SEAC decided to recommend the proposal for the grant of Environmental Clearance to SEIAA – TN subject to certain conditions.
5. The subject was placed before 404th meeting of SEIAA held on 14.10.2020. SEIAA after careful consideration decided to issue Environmental Clearance subject to terms and conditions stipulated under the provisions of Environment Impact Assessment

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1	(i)	Name of the Project:	i) Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited.
	(ii)	Date of Application submission to SEIAA:	ii) EC Application along with the EIA Report Dated:29.08.2019.
2	Name of Sector:Schedule No(in the EIA Notification,2006)		Schedule S.No. 3(a) of Category "B1" – Metallurgical Industries (Ferrous & Non - Ferrous)
3.	New Project/ Expansion		Expansion Project
4	Name of the Applicant/Project Proponent		M/s. Kanishk Steel Industries Limited.
5	(i)	Project	Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamilnadu.
	(ii)	Co-ordinates (lat-long) of all four corners of the site	S.No / Latitude / Longtitude 1. 13°25'.079"N 80° 7'.154"E 2. 13°25'.069"N 80° 7'.235"E 3. 13°24'.971"N 80° 7'.229"E 4. 13°24'.972"N 80° 7'.137"E
	(iii)	Whether any GO attracted	No.

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6	(i)Area of the Site(in Sq.m)	3.015 Ha (7.45 acres)
	(ii)Land use are(in Sq.m)	

Description	Area (Sq.M)	Percentage (%)
Factory shed area	0.9	29.85
Scrap area	0.55	18.24
Product storage area	0.15	4.98
Greenbelt Development	1	33.17
Road	0.37	12.27
Open space area	0	0.00
Solid waste storage area	0.045	1.49
Total area	**3.015**	**100**

7	Land use Classification as per Record	Industrial Land use Zone (SIPCOT, Gummidipoondi)
8	TOR issued? (If yes then specify the details)	Yes. Terms of Reference (ToR) issued vide SEIAA Lr. No. SEIAA/F.No.6430/2017/3(a)/KSI/TOR-292/2017, Dated: 15.11.2017 & Dated 09.07.2019 with Public Hearing.
9	Waterboding within 10km radius	The project site is located within 10km , Thamari Eri – 0.4km, Murugan pond – 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond – 1.7km (south).
10	Distance from Protected areas /Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.	The prior clearance from Forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife if required.

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11 | Production Details

Sr. No	Products	Quantity (TPA)	
		Existing	After Expansion
I	*Main Products*		
1	Re-rolled products/ Structurals	54,000	76,000
2	MS Ingots	6,000	-
II	By products		
1	MIS Rolls	2,160	N/A
III	Intermediate Products		
1	MS Ingots	36,000	-
2	MS Billets	-	83,000

List of Raw Materials & Source

S. No	Name of Raw Materials	Sources of Raw materials	Number of Trucks/Day	Mode of Transport
		Steel Melting Unit		
1	MS Scrap	96,000	Sweden, Malaysia, UK, New Zealand, Gummidipoondi	By ship followed by road transport
2	Sponge iron	4,800	Local suppliers from Gummidipoondi	By road through covered trucks
3	Silicon Manganese	1152	Andhra Pradesh	By road through covered trucks
4	Ferro Manganese	48	Local suppliers from Gummidipoondi	By road through covered trucks
5	Aluminium	14	Andhra Pradesh	By road through covered trucks

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<table>
<tr><td>14</td><td>Man-power Requirement</td><td>350 Employees</td></tr>
<tr><td>15</td><td>Total Water Requirement -45.25 KLD</td><td>Source of water – SIPCOT, Gummidipoondi
<table><tr><th>Particulars</th><th>Water Requirement (KLD)</th></tr><tr><td>Domestic</td><td>8.75</td></tr><tr><td>Machinery Cooling</td><td>33</td></tr><tr><td>Scrubber make-up</td><td>3.5</td></tr><tr><td>Total water requirement</td><td>45.25</td></tr></table></td></tr>
<tr><td>16</td><td>Sewage generation and treatment</td><td>The domestic sewage (8.75 KLD) generated from the proposed expansion project will be treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.5 KLD from the STP will be used for green belt development. The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 18.8 KLD will be re- circulated for the processes.
The scrubber effluent of 3.5 KLD will be treated in the existing Solar Evaporation Pan.
<table><tr><th rowspan="2">Sr. No</th><th rowspan="2">Description</th><th colspan="2">Quantity in KLD</th><th rowspan="2">Treatment</th></tr><tr><th>Existing</th><th>After Expansion</th></tr><tr><td>1</td><td>Sewage</td><td>5.5</td><td>7.9</td><td>Existing STP 10 KLD</td></tr><tr><td>2</td><td>Blow down</td><td>11.0</td><td>19.0</td><td>Cooling tower and recycled to back to process</td></tr><tr><td>3</td><td>Scrubber bleed</td><td>1.40</td><td>2.45</td><td>Solar Evaporation Pan</td></tr></table></td></tr>
<tr><td>17</td><td>Hazardous waste Management</td><td>a. Solar Pan Residue – 0.04 (Collected and Transported top CTSDF, Gummidipoondi)
b. Oil bearing cotton waste - 0.3 MT/year (Collected and Transported top CTSDF, Gummidipoondi)</td></tr>
</table>

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18	Other Solid waste	**Non Hazardous**

S.No	Solid Waste	Quantity (TPA)	Treatment of Disposal
1	Furnace slag	12,700	Sold out to contractors
2	CCM Scale	510	Sold out to contractors
3	Returnable scrap	5,572	Remelted in induction furnace
4	Runner and riser	-	Remelted in induction furnace
5	Mill scale	1,600	Sold out to contractors
6	Cobbles	830	Remelted in induction furnace
7	End cuttings/Misrolls	4,570	Remelted in induction furnace
8	Ash	-	Sold to ash bricks manufactures
9	STP Sludge	1.34	Dried and used as manure for greenbelt
10	Municipal waste	28	Will be collected by Civic bodies

19	Power requirement	Particulars	Usage	Existing	After Expansion	
		Power requirement *Source:* TANGEDCO	Induction furnace, CCM, Rolling Mill, Other infrastructure usage	5.9 MVA	11.9 MVA	
		Backup Facility				
		DG Set	Lightings, Melting machineries	1 x 250 KVA	1 x 250 KVA	1 x 500 KVA
		Fuel				
		Low Sulphur – High speed Diesel *Source:* Local bunks	Diesel Generator	80 Lit/hr	80 Lit/hr	160 Lit/hr
		Thermal coal *Source:* Indonesia	Reheating furnace		-	
20	Storm Water Management	Storm water drains will be provided along the factory to ensure that this will be minimizing runoff of the contaminated water to the land surrounding the site.				

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23	Rain Water Harvesting	9 Nos. of percolation pits will be constructed along the periphery of the plant for ground water recharge from rain water.
24	Green Belt Development	Green belt area – 1336Sq.m (33%)
25	Project cost	Rs. 4.0 Crores
26	EMP Cost(O&M)	Capital Cost: Rs.45.0 Lakhs Recurring Cost: Rs.7.0 Lakhs per annum.

Affidavit

The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that

We hereby propose and promise to the following developments and works at Gummidipoondi near our Factory;

1. Drinking – water provision at Ganganthotty Village by installing 2 heavy duty hand pumps including bore drilling and platform; Cost of 2 Numbers @ Rs.70,000/- each Rs. 1,40,000/-
2. Providing retaining walls to Government Elementary School at Ma Po Si Nagar, Gummidipoondi for a length of 2 Meters with 1.8 Meters wioth 1.8 Metre Height; Cost of construction including materials: Rs.3,60,000/-;
3. Provision of Toilets for the same school;
   2 Number Toilets @ Rs.60,000/- each Rs.1,20,000/-;
4. Provision of 3 Number Toilets at Ganganthotty Village @ Rs.75,000/-, Rs.2,25,000/-;

The total cost works out to Rs.8,45,000/- in all.

Appraisal by SEAC:-

The project activity is of Category "B1" and comes under S.No.3 (a) in the Schedule of EIA Notification, 2006. The Proposal was appraised by the State Level Expert Appraisal Committee in the 96th meeting held on 31.10.2017, as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 and on the basis of the mandatory documents enclosed with the application. TOR was prescribed by the SEAC for EIA studies including Public consultation. Public consultation was held on 31.10.2018. Subsequently the proposal was

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appraised by the SEAC in the 173th SEAC Meeting held on 10.09.2020. Based on the presentation made by the proponent and the documents furnished, after detail deliberation, the SEAC decided to recommend the proposal for grant of Environmental Clearance to SEIAA subject to the following conditions in addition to normal conditions:

1. 'Consent for Establishment" shall be obtained fom the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
2. All the roads shall be tarred and water sprinkling shall be ensured to control dust emission from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage areas shall be completely covered. Dust extraction system shall be provided to storage area shall be completely covered. Dust extraction system shall be provided to storage, transfer points and material handling areas Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines.
3. The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/MoEF& CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.
4. Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the MoEF&CC and regularly monitored and reports should be submitted to SEIAA-TN, CPCB and TNPCB. Guidelines / Code of Practice issued by the CPCB shall be followed.
5. The scrubber effluent from wet scrubbers shall be evaporated in elevated Solar Evaporation Pan of adequate sizes. No wastewater shall be discharged outside the Plant premises and 'Zero' discharge shall be strictly adopted as proposed.
6. The proponent shall continuously operate the Sewage treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.
7. Slag shall be subject to Toxic Chemical Leach ability Potential (ICLP) test before using for further beneficial use and shall be used only when found nonhazardous.

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8. All the solid wastes like slag and SEP residue shall be stored separately at designated place only. Solar Evaporation Pan residue shall be disposed of in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules. 2016
9. Proper housekeeping shall be ensured and all the raw materials and products shall be stored at designated places.
10. The Project proponent shall provide adequate safety and ventilation arrangements in the furnace area.
11. A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures who should report directly to the top Executive of the plant premises.
12. Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement. The locations of ambient air quality monitoring stations shall be decided in consultation with the Tamil Nadu Pollution Control Board and it shall be ensured that maximum numbers of stations to be installed in the up wind direction and same shall be connected to CARE AIR centre in TNPCB for online monitoring.
13. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed CPCB/MoEF&CC.
14. The Proponent shall provide and maintain the Green belt at least 33 % area as per the CPCB Guidelines and the proponent shall develop more Green belt continuously.
15. The Proponent shall furnish an undertaking that they will abide by the conditions by the conditions / recommendations mentioned in the EMP report furnished by them.

Discussion by SEIAA and the Remarks:-

The proposal was placed before the SEIAA in its 404th Meeting held on 14.10.2020. After detailed discussion the Authority decided to accept the recommendations of SEAC and

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decided to grant Environmental Clearance subject to the conditions as recommended by the SEAC and subject to General conditions in addition to normal conditions.

1. The EMP Cost shall be deposited in a nationalized bank by opening separate account and head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.
2. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
3. A detailed post-COVID health management plan for workers as per ICMR and MHA guidelines or the State Govt. guideline may be followed and report shall be furnished.
4. If there is any change in the production or land area application for amendment has to be submitted to SEIAA for further approval.

As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.

Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions

Statutory compliance:

i) The green belt developed should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

ii) The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.

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iii) It is necessary to be carried out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.

iv) It is recommended to prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.

v) As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.

vi) The proponent shall strictly follows the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.

vii) Necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.

viii) The proponent shall continuously operate and maintain the Air-pollution control measures to be provided

ix) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous wastes are being kept.

x) The sewage generated from the unit shall be treated and dispose through septic tank and soak pit arrangement.

xi) The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.

xii) The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.

xiii) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

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xiv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

xv) The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)

xvi) The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.

xvii) The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

xviii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

Air quality monitoring and preservation:

i) The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii) The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

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iii) The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and PM_{25} in reference to PM emission, and SO_2 and NO_x in reference to SO_2 and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.

iv) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

v) Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

vi) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

vii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16thNovember, 2009 shall be complied with.

Water quality monitoring and preservation:

i) The project proponent shall provide online **continuous monitoring of effluent, the unit** shall install web camera with night **vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)**

ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).

iii) The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

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iv) Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

v) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

vii) The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

Noise monitoring and prevention:

i) Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

ii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

iii) The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

Safety, Public hearing and Human health issues:

i) Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

iii) The project proponent shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iv) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all

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employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

v) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

vi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

Corporate Environment Responsibility:

i) As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.

ii) The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.

iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by

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competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

v) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

Waste management:

i) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

ii) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

iii) The company shall undertake waste minimization measures as below:-

a) Metering and control of quantities of active ingredients to minimize waste.

b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.

c) Use of automated filling to minimize spillage.

d) Use of Close Feed system into batch reactors.

e) Venting equipment through vapour recovery system.

f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

SPECIFIC CONDITIONS

1. It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.
2. "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.

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3. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
4. The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
5. Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational –health standards and ambient air quality standards.
6. The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
7. Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
8. The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
9. The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
10. The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
11. The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
12. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016 as amended.
13. The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.

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14. The industry shall conduct air sampling at least once in six months for the general core parameters (PM_{10}, $PM_{2.5}$, SO_x, NO_X) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
15. Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
16. A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
17. The Green belt area already developed within the project area shall be properly maintained.
18. The green belt of 3-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
19. The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
20. The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
21. The energy sources for lighting purposes shall preferably be LED based.
22. The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
23. Risk cum disaster management plan should be in placed in the industry premises at all time.
24. Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.

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25. The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
26. The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
27. All the assurances given in EIA and EMP shall be adhered strictly.
28. Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
29. Sufficient funds should be provided for Disaster management.
30. The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
31. The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
32. The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.
33. The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
34. If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
35. The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.

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36. The EMP cost of Rs.45 lakhs for capital cost and recurring cost cost Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
37. There should be no threat to Bio diversity due to the operation of the industry.
38. The Project Proponent has to provide rain water harvesting collection tank of adequate capacity in order to recover and reuse the rain water during normal rains.
39. The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
40. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
41. The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.
42. The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
43. The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.

SEIAA

General Conditions:

1. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA,TN.
3. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished t the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
4. Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.

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5. The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office **within six months**.
6. The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
7. The Project proponent has to spend the CER fund Rs. 8.45 Lakhs (2% of the project cost for the various activities as per MoEF & CC OM dated: 1.05.2018.
8. CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.
9. It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
10. Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.
11. An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.
12. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
13. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.

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SEIAA-TN

14. The Proponent shall furnish an undertaking that they will abide by the condition by the conditions / recommendations mentioned in the EMP report furnished by them'
15. The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
16. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA,TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of the SEIAA,TN at parivesh.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office of the MoEF at Bengaluru.
17. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.
18. The Environmental Statement for each financial year ending 31st March in Form-V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.
19. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and

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SEIAA-TN

displayed at a convenient location near the main gate of the company in the public domain.

20. Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA,TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
21. Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.
22. The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air/emission standards prescribed by the CPCB/MoEF&CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.
23. The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose additional environmental conditions or modify the existing ones, if necessary.
24. The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.
25. Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
26. In case of any deviation or alteration in the project proposed from those submitted to this SEIAA,TN for clearance, a fresh reference should be made to the SEIAA,TN to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
27. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling &Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

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28. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

MEMBER SECRETARY
SEIAA-TN

Copy to:-

1. The Principal Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai – 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The ACCF(C), Regional Office of MoEF & CC, 34, HEPC Building, I & 2 nd Floor, Central Garden Road, Nungambakkam, Chennai - 600 034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Tiruvallur District.
7. Stock File.

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ENCLOSURE - 2

Copy of the full length latest Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period of April 2024 to September 2024

Six Monthly Compliance Report

Period: April 2024 to September 2024

Steel Melting Plant and Rolling Mill at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District - 601201



By

M/s Kanishk Steel Industries Limited
Gummidipoondi Taluk,
Thiruvallur District.

Six Monthly Compliance Report

Project Description:

Name of the Project: Steel melting plant and Rolling Mill having production capacity of 76,800 TPA of Re-Rolled Products Structural and 85,200 TPA of MS Billets

Factory Name: M/s Ramshik Steel Industries Limited

Factory Address: Plot No. B-27 (N.M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District Pin 601004

Ref. No. Environmental clearance Letter No.: SEIAA-TN/F No.6430/EC/5(a)/78/2020 dated 10.11.2020

Name of Sector: Schedule No (in the EIA Notification,2006): Schedule S.No. 3(a) of Category "B1" - Metallurgical Industries (Ferrous & Non- Ferrous)

Co-ordinates (lat-long) of all four corners of the site are

1. Coordinate 1: Latitude: 13°25'.079"NLongitude: 80° 7'.154"E
2. Coordinate 2: Latitude: 13°25'.060"NLongitude: 80° 7'.235"E
3. Coordinate 3: Latitude: 13°24'.971"NLongitude: 80° 7'.229"E
4. Coordinate 4: Latitude: 13°24'.972"NLongitude: 80° 7'.137"E

Terms of reference: SEIAA Letter No: SEIAA/F No: 6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017 & dated 09.07.2019 with public hearing

Water body within 10km radius: The project site is Located within 10km ThamanEri - 0.4km, Murugan pond - 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond - 1.7km (south)

Land use: Total area of land use is 3.015 Sq.Km which corresponds to 100% of the project area.

Man Power for the project is 350 Employees

Water source: Water Source is from Sipcot, Gummidipoondi,

Total water required: Total water required is 45.25KLD.

Power Requirement:

The facility operates with a total power capacity of 11.9 MVA (Mega Volt Amperes), which is dedicated entirely to an induction furnace. Diesel generator set (DG Set) with a capacity of 500 KVA (Kilo Volt Amperes) and 250KVA DG sets are back-up power source. This DG set runs on low sulfur high-speed diesel, with a consumption rate of 160

For RAMSHIK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

liters per hour. This setup provides a reliable power solution for the induction furnace and an effective backup system to mitigate any potential disruptions.

Waste Water Generation and Treatment: The domestic sewage (8.75 KLD) generated is treated in the Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.9 KLD from the STP is recycled for green belt development. The wastewater from the cooling processes 19 KLD is re- circulated for the process. The scrubber proposed in the expansion of Environmental Clearance will be installed whenever there is a generation gaseous emission.

The monitoring of Ambient Air Quality, Ambient Noise Level, Stack Emission etc. are being carried out through Tamil Nadu Pollution Control Board and the same is enclosed herewith in this report. The compliance status of conditions stipulated in the Environmental Clearance is provided below.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

I C Compliance Period: April 2024 to September 2024

Sl. No.	Conditions	Compliance Status
1.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site:	Complied Consent for Establishment is under Water Act obtained vide Proceedings No. 12/TNPCB/F.0119GMP/OL/GMP/W/2022 and CTE for under Air Act obtained vide Proceedings No.12/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022from TNPCB and the copies are furnished to SEIAA Tamil Nadu. **CTE Consent order under Water & Air Act is attached as Annexure – I Page No.58 & 64.**
2.	All the roads shall be tarred and water sprinkling shall be ensured to control dust emission from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage areas shall be completely covered. Dust extraction system shall be provided to storage, transfer points and material handling areas. Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines.	Complied The internal roads are cemented and provided water sprinkling arrangements. The raw material is stored inside the shed. Suitable dust control measures are provided in the site.

For LAKSHMI STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
3.	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/ MoEF & CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.	Complied There are 2 operational furnaces for the process in the industry. Air pollution control measures Bag filters are provided in the furnaces to control emissions and to achieve the air emission standards prescribed by the CPCB/ MoEF & CC online emission monitoring system provided in each furnace and are connected to the CARE AIR center of TNPCB. The photographs of the 2 furnaces and the Screenshot of the connection to the CARE AIR center of TNPCB for online monitoring **–Enclosed– 1 Page No.37 & 38** The latest Result of Analysis of TNPCB letter date 02/07/2024 is **Enclosed -2 Page No.39**
4.	Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled with in the latest permissible limits issued by the MoEF&CC and regularly monitored and reports should be submitted to SEIAA-TN, CPCB and TNPCB. Guidelines/code of Practice issued by the CPCB shall be followed.	Complied. Emissions from all the sources are regularly monitored and controlled and reports are submitted to SEIAA-TN, CPCB and TNPCB. The latest Result of Analysis of TNPCB Survey report date 02/07/2024 is **attached as Annexure– II Page No. 70.**
5.	The scrubber effluent from wet scrubber shall be evaporated in elevated Solar Evaporation Pan of adequate sizes. No waste water shall be discharged outside the Plant premises and 'Zero' discharge shall be strictly adopted as proposed.	Agreed to Comply We have provided bag filters for the furnace which is operated by electricity as fuel. We will provide the scrubber whenever there is a gaseous emission from the furnace i.e. utilization of coal operated furnace.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
6.	The proponent shall continuously operate the Sewage Treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.	Complied STP is continuously operational so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB. Photos of STP are attached here with as **Enclosed– 3 Page No.40.**
7.	Slag shall be subject to Toxic Chemical Leachability potential (TCLP) test before using for further beneficial use and shall be used only when found non hazardous.	No toxic chemicals are generated from our company. The slag which is generated is neutral.
8.	All the solid wastes like slag and SEP residue shall be stored separately at designated place only. Solar Evaporation Pan residue shall be disposed of in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.	Complied Slag is stored separately. No Solar Evaporation Pan residue. Since we provide Bag filter arrangement to the furnaces stack and no scrubber effluent generate and no provision of Solar Evaporation Pan
9.	Proper housekeeping shall be ensured and all the raw materials and products stored at designated places.	Complied In total land use 4.98% is allotted to the product storage area. Raw materials and products are stored separately in the places earmarked.
10.	The Project proponent shall provide adequate safety and ventilation arrangements in the furnace area.	Complied The furnace area is provided with proper ventilation.
11.	A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures who should report directly to the top Executive of the plant premises.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of **Environment Management Cell Enclosed–4 Page No.45**

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
12.	Ambient air quality monitoring (AAQM) stations shall be setup as per statutory requirement. The locations of ambient air quality monitoring stations shall be decided in consultation with the TNPCB and it shall be ensured that maximum numbers of stations to be installed in the upwind direction and same shall be connected to CARE AIR centre in TNPCB for online monitoring.	Complied AAQM – stations are setup by TNPCB during their latest survey dated 26.06.2024 **is attached as Annexure– II**
13.	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The Ambient Noise levels shall conform to the standards prescribed by CPCB/MoEF & CC.	Complied The latest TNPCB survey dated 26.06.2024 ,received Noise level are within TNPCB Standard **is attached as Annexure– II**
14.	The proponent shall provide and maintain the Green belt at least 33% area as per the CPCB Guidelines and the proponent shall develop more Greenbelt continuously.	Complied 33.17% of total plot area is developed as greenbelt area with native trees. **Photos of Greenbelt and Tress details-Enclosed-5 Page No.46**
15.	The proponent shall furnish an under taking that they will abide by the conditions/ recommendations mentioned in the EMP report furnished by them.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund.

For LARSON STEEL INDUSTRIES LTD

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
	Discussion by SEIAA and the Remarks : Conditions	
1	The EMP Cost shall be deposited in a nationalized bank by opening separate account and head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.	Complied We have deposited the amount in Nationalized bank toward caring the EMP activities
2	The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC 2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.	Agreed to comply We compiled will not utilize banned single use plastic within the premises
3	A detailed post-COVID health management plan for workers as per ICMR and MHA guidelines or the State Govt. guideline may be followed and report shall be furnished.	Agreed to comply
4	If there is any change in the production or land area application for amendment has to be submitted to SEIAA for further approval.	Agreed to comply
	STATUTORY COMPLIANCE	
1.	The green belt developed should be more than33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied 33.17% of total plot area is developed as greenbelt area with native trees.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
II.	The Project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB	Complied STP with the total capacity of 10 KLD is installed for treating the sewage generated. STP is continuously operated and we have achieved standards prescribed by the CPCB. The effluent generated from the cooling water is re-circulates continuously to the process.
III.	It is necessary to be carried out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting	Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu. **Safety Training Photos – Annexure IV Page No.80.**
IV.	It is recommended to prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.
V.	As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	Complied As a part of health surveillance Pre-medical examination for the employees has been carried out. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. **Attached MOU Copy – Annexure V Page No.90.**

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
VI.	The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.	Compiled We are obtained authorization for handling the waste generation from TNPCB valid for a period upto 31/03/2027. **HWA Authorization Copy - Annexure VI Page No.108.**
VII.	A necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.	Compiled Water is being supplied by the SIPCOT Necessary and Agreement made with SIPCOT is **Attached – Annexure VII Page No.118.**
VIII.	The proponent shall continuously operate and maintain the Air Pollution control measures to be provided.	Being Compiled Air Pollution control measures are continuous and efficiently operate.
IX.	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous Waste storage yard where the hazardous wastes are being kept.	Compiled
X.	The sewage generated from the unit shall be treated and dispose through septic tank and soak pit arrangement.	Compiled A dedicated STP provided to handle sewage
XI.	The effluent generated from the process Should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.	Compiled Cooling water is being recycled for the manufacturing process. No effluent generated in our process
XII.	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe Conditions during the plant safety meeting.	Complied As a part of safety audit, safety training was conducted to the employees through Directorate of Industrial Safety
XIII.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act.1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable. The project location and activity does not attract the provisions of Forest (Conservation) Act.1986.

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
XIV.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden Chennai NOC copy is attached here with for your reference-**Annexure VIII Page No.124.**
XV.	The project proponent shall prepare a Site-Specific Conservation Plan and Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (incase of the presence of schedule-I species in the study area)	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden Chennai

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
XVI	The project proponent shall obtain Consent to Establish /Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	Complied Consent for Establishment is under Water Act obtained consent order Proceedings No T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022 and CTE for under Air Act obtained vide PROCEEDINGS NO T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022 from TNPCB Consent to Operate is obtained under Air (Prevention & Control of Pollution) Act,1981. PROCEEDINGS No T1/TNPCB/F.0119 GMP/OL/GMP/A/2023, DATED: 08/12/2023 Consent to Operate is obtained under Water (Prevention & Control of Pollution) Act,1974. PROCEEDINGS No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023DATED:08/12/2023. **CTE and CTO Consent order under Water & Air Act is attached as Annexure – I & IX**
XVII.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time	HWA authorization was obtained Vide Proceeding No. T2/TNPCB/F.0119GMP/HWA/OL/GMP/2022 dated 30/08/2022 and valid upto 31/03/2027 from TNPCB
XVIII.	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicles Act (MVA),1989.	Not Applicable. This industry is manufacturing Steel components there is no Manufacture, Storage or import of Hazardous Chemicals

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
	Air quality monitoring and preservation:	
I.	The project proponent shall install 24X7 continuous emission monitoring system at process stacks to monitor stack emission with respect to NABL accredited Laboratories	Complied Online Continuous emission monitoring system provided in the stacks attached to the Induction Furnace -7T and Induction Furnace - 12Tcapacity and all connected to TNPCB and CPCB monitoring system
II.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act,1986	Complied Monitored by TNPCB.
III.	The project proponent shall install system to carry out Ambient Air Quality monitoring for common criterion parameters relevant to the main pollutants released (e.g. PM-10 and PM-25 in reference to PM emission and SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Complied Ambient Air Quality monitoring for the parameters PM 10,PM 2.5 , SO2, NOx are carried by TNPCB labs survey dated 02/07/2024 and the copy of Results of Analysis enclosed in **Annexure II**
IV	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and /or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions with in permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied Suitable Air pollution control measures Such as Bag filter to furnaces7T & 12Tare provided Adequate stack height 32m respects to the 7TInduction Furnace and 12T Induction Furnace provided
V.	Storage of raw materials, collect shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied We have provided enclosed shed for the storage of raw material to prevent dust pollution and other fugitive emissions.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
VI	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608 (E) dated 21st July,2010 and amended from time to time shall be followed.	Not Applicable
VII	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R 826 (E) dated 16th November, 2009 shall be complied with.	NAAQ Emission standards complies with the latest TNPCB survey date 02/07/2024 report is enclosed
	WATER QUALITY MONITORING AND PRESERVATION:	
I.	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow metersin the channel/drain carrying effluent with in the premises (applicable incase of the projects Achieving ZLD)	Not Applicable
II.	As already committed by the project proponent, Zero Liquid Discharge shall be,ensured and no waste/treated water shall be discharged outside the premises (applicable incase of the projects achieving the ZLD).	Complied
III.	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	Complied
IV.	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	Complied All our water is recycled except for evaporation losses.

For KAMSHIK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
V.	Process effluent any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through its separate conveyance system.	Complied Zero liquid discharge maintained. Storm Water drain maintained.
VI.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations with in the plant.	Complied Rain water harvesting (RWH) system provided
VII.	The DG sets shall be equipped with suitable Pollution control devices and the adequate stack height so that the emissions are in conformity with the extent regulations and the guidelines in this regard.	Complied DG set 500 KVA provided with adequate Acoustic enclosures.
	NOISE MONITORING AND PREVENTION	
I.	Acoustic enclosure shall be provided to DG set for controlling the noise Pollution.	Complied Air pollution Control measures of Acoustic enclosures. Its silent Green Generator (No Stack) are provided to DG set for controlling noise pollution.
II.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Complied Adequate noise control measures provided
III.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz 75 dB(A) during day time and 70dB(A) during night time.	Complied TNPCB survey conducted on date 02/07/2024 Noise levels are within the standards prescribed.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
	Safety, Public Hearing and Human health issues	
I.	Emergency preparedness plan on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	Complied Risk assessment study conducted on-site emergency preparedness plan available at site
II.	The unit shall make the arrangement for protection of possible fire hazards during manufactoring process in material handling. Firefighting system shall be as per the norms.	Complied Firefighting system provided around the plant as per the norms
III.	The project proponent shall provide personal protection Equipment (PPE) as per the norms of Factory Act.	Being Complied
IV.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling Of chemicals shall be imparted.	Complied As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety
V.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable No housing for labour provided at factory
VI.	Occupational health surveillance of the workers shall be done on a regular basis and Records maintained as per the Factories Act	Complied OHS is being carried regularly
VII.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Complied We have provided enclosed shed for the storage of raw material to prevent dust pollution and other fugitive emissions.

For KAVISHK STEEL (P) LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
	Corporate Environment Responsibility:	
I.	As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs. 8.45 lakhs as committed in the affidavit. The CER activities shall be carried out before obtaining CTO from TNPCB	Complied The Corporate Environmental Responsibility (CER) activities for the amount of Rs. **17.46** lakhs have been spent. CER **details are Enclosed -6** **Page No.50**
II.	The company shall have a well laid down environment policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environment/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms/conditions and / or share holders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.	Complied.
III.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
IV.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry Regional Office along with the Six Monthly Compliance Report.	Complied EMP implemented **EMP details are Enclosed -7** **Page No.51**
V.	Self environmental audit shall be conducted annually. Every three years third party Environmental audit shall be carried out.	Assured to comply
	WASTE MANAGEMENT:	
I.	Hazardous chemicals shall be stored in tanks farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Being Compiled
II.	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Not Applicable

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
III.	The company shall undertake waste minimization measures as below: - a) Metering and control of quantity of active ingredients to minimize waste. b) Reuse of by-product from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spilling. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapour recovery system. f) Use of high pressure hoses for equipment clearing to reduce waste water generation.	Being Complied
	SPECIFIC CONDITIONS	
1.	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly Compliance report in hard and soft copies on 1st June and1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearances issued.	Agreed to comply Copy of half year Compliance report for the period October 2023 to March 2024 is furnished to SEIAA, IRO-MoEFCC, DEE-TNPCB, JCEE-TNPCB, & CPCB. Copy of half year Compliance report for the period April 2024 to September 2024 is submitted here with.
2.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.	Complied "Consent for Establishment" is obtained vide under Water Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
3.	"Consent to Operate" should be obtained from the TNPCB before the start of the operation of the project and copy shall be submitted to the SEIAA, Tamilnadu	Complied. The Consent to Operate is obtained, as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No: **TI/TNPCB/F.0119GMP/OL/GMP/W/2023** DATED: **08/12/2023** 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. **TI/TNPCB/F.0119GMP/OL//GMP/A/2023**D ATED: **08/12/2023** Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. Copy of CTO renewal of Air Act & Water Act is attached in **Annexure IX** **Page No.127 & 135**
4.	The implementation of Environment Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous Waste Management, and CSR activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.	Complied M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out, as proposed and committed. Regular monitoring carried out during operation phases.
5.	Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational-health standards and ambient air quality standards.	Complied. Adequate dust extraction system provided to handle and the emission from furnace. AAQ standards are achieved. (TNPCB survey dated 26.06.2024 report Enclosed

For KANISHK STEEL INDUSTRIES (P) LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
6.	The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.	Being complied. M/s KSIL industry total land use 4.98% is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. Where the Raw materials and products are stored separately based on their properties in the designated places. Photographs of the product storage area are attached herewith. **Enclosed -8 Page No.52**
7.	Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.	Not applicable No hazardous chemicals handled.
8.	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.	Being Complied
9.	The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.	Complied Hazardous wastes are stored in a separate place.
10.	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.	Complied Hazardous Waste handed through recycler as per authorization.

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
11.	The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.	Agreed to comply We agree to compiled with provisions of Plastic Waste (Management & Handling) Rules 2016.
12.	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre As per E-waste (Management &Handling) Rules 2016 as amended	Agreed to comply We agree to compiled with provision of waste (Management & Handling) Rules 2016.
13.	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.	Agree to comply We agree to compiled maintain with provision of Solid Waste Management Rules, 2016.
14.	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM25, SOx, NOx) through TNPC/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.	Being Complied TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox & NOx etc..
15.	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	Complied Through TNPCB lab analysis

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
16.	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environment safeguards.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of **Environment Management Cell is presented in Annexure** As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu. **Safety Training Photos is attached as Annexure– IV**
17.	The Greenbelt area already developed within the project area shall be properly maintained.	Agree to comply
18.	The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Complied The greenbelt area for 33.17% of total land which has area of 1.0ha developed.
19.	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.
20.	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
21.	The energy sources for lighting purposes shall preferably be LED based.	Complied. LED lights are provided for lighting purposes.
22.	The industry shall conduct air sampling at Least twice in a week (104 times in a year). As stipulated under EP Act 1986.	Being Complied Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted.
23.	Risk cum disaster management plan should be in placed in the industry premises at all times.	Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan is attached as **Annexure X Page No.144.**
24.	Water conservation scheme including rainwater harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rain water harvested as a supplement to fresh water.	Complied. Rain water harvesting (RWH) system is implemented.
25.	The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provide considering the Catchment area and maximum intensity of rainfall to collect run off water/rain water for proper disposal to avoid flooding around the premises.	Being Complied Adequate Storm water drains are provided.
26.	The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/Honb'le High Court of Madras.	Agreed to Comply.
27.	All the assurances given in EIA and EMP shall be adhered strictly.	Complied.

For KAMAKSHI STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
28.	Detail study shall be carried out by engaging accredited agencies reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.	Complied Onsite emergency management plan are prepared and available site premises to manage risk.
29.	Sufficient funds should be provided.	Complied Risk cum onsite emergency Management Plan is available within the site Sufficient funds available to manage disaster management.
30.	The Project Proponent shall provided is infection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.	Complied The treated wastewater of 7.9 KLD from the STP is recycled for greenbelt development after disinfection.
31.	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.	Being Complied M/s KSIL provided sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste are being kept.
32.	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	Being Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.
33.	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Complied Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No	Conditions	Compliance Status
34.	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	Being Complied M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.
35.	The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.	Complied Our industrial activity is not having any impact on the surrounding agriculture and irrigation system
36.	The EMP cost of Rs.45 Lakhs for capital costandrecurringcostofRs.7lakhsshallb edeposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment –**Enclosure-9 page No.53**
37.	There should be no threat to Biodiversity due to the operation of the industry.	Agreed to comply Due to the operation of the M/S KSIL industry there is no threat to Bio diversity.
38.	The Project Proponent has to provide rain water harvesting tank during normal rains.	Complied Rain Water Harvesting percolation pits constructed along the periphery of the plant for ground water recharge from rain water.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
39.	The operation of the activity should not impact on the soil, micro flora& Fauna present in and around the project site.	Being Complied The operation of mill does not have any impact on the soil, micro flora& Fauna present in and around the project site.
40.	The proponent should continuously monitor the VOC and ensure that VOC levels are with in permissible limits.	Not Applicable
41.	The project proponent shall carryout risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.	Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities.
42.	The project proponent shall take up better housekeeping measures including scraps disposal and upkeeping the machineries, pipes etc.,	Being Complied Housekeeping measures are done regularly and including scraps disposal and up keeping the machineries, pipes etc.,
43.	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.	Complied The CER activities for the amount of 17.46 lakhs have been spent. **Attached Affidavit as Annexure –III** **Page No.78**
	GENERAL CONDITIONS	
1.	The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.	Agreed to comply
2.	No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA.TNPCB	Agreed to comply

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
3.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.	Complied C.T.E was obtained from TNPCB.
4.	Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.	Being Complied Proper housekeeping is done and all the raw material including scrap, coal etc., are stored at designated places.
5.	The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.	Complied Rain water harvesting measures provided inside plant
6.	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Complied The CSR activities for the amount of 43.22 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like • Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. **Enclosed -10 Page No.55**
7.	The Project proponent has to spend the CER Fund of Rs.8.45 Lakhs (2% of the project cost for the various activities as per MoEF&CC OM dated 1.05.2018.	Complied The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.46 lakhs have been spent.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
8.	CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within5 Km of the site and in constant consultation with the village Panchayat and the District Administration.	Complied We undertake various socio economic schemes under CSR schemes in the surrounding villages like • Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda Nagar. Gummidipoondi Elementary school drinking water bore.
9.	It shall been sured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Agreed to comply
10.	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least80%.	Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands when ever required.
11.	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall been sured that the Head of the Cell shall directly report to the Head of the Organization.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
12.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.	Complied The industrial planner take steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are take: •Conducting awareness programs at regular intervals to the employees •Providing safety kits and prevention kits •Provision of Clinic at the plant site to handle emergency situations that may arise. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.
13.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Complied Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others
14.	The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.	We are implemented EMP mention in affidavit.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
15.	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.,	Complied M/s. KSIL undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. • Enhanced library facility for Pedikuppam Govt. School • Provision of educational kits and accessories to nearby Govt. School. • Safe drinking water for nearby Villages. • CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby. • Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.
16.	The Project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh.nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.	Compiled The details of Environmental Clearance obtained have been published in 2 local Daily News papers. **Enclosed -11 Page No.55**

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
17.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.	Being Complied We hereby submitting six month compliance report for the period of April 2024 to September 2024.
18.	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nādu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. **Copy of Form V – Annexure XI** **Page No.157**
19.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied Six months compliance report for the period of April 2024 to September 2024 is submitted herewith. We are uploaded in the company website that is www.kanishksteels.in

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
20.	Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied We have obtained CTE before starting the project and CTO obtain before operating the project.
21.	Full co-operation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	Agreed to comply We will give full co-operation to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.
22.	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air/emission standards prescribed by the CPCB/ MoEF & CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.	Air Pollution Control (APC) measures are provided to all the Furnaces to achieve the air/emission standards prescribed by the CPCB/ MoEF & CC and same also connected to the CARE AIR centre of TNPCB for online monitoring and Stack monitoring Survey are done by TNPCB and Survey report are Attached for reference.
23.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.	Agreed to comply.
24.	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.	Complied

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sl. No.	Conditions	Compliance Status
25.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.	Agreed to Comply.
26.	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.	Agreed to Comply.
27.	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.	Agreed to Comply.
28.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.	No appeal was made during the specified period.

For KAMSHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

ENCLOSURES

LIST OF ENCLOSURES

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ENCLOSURE-1

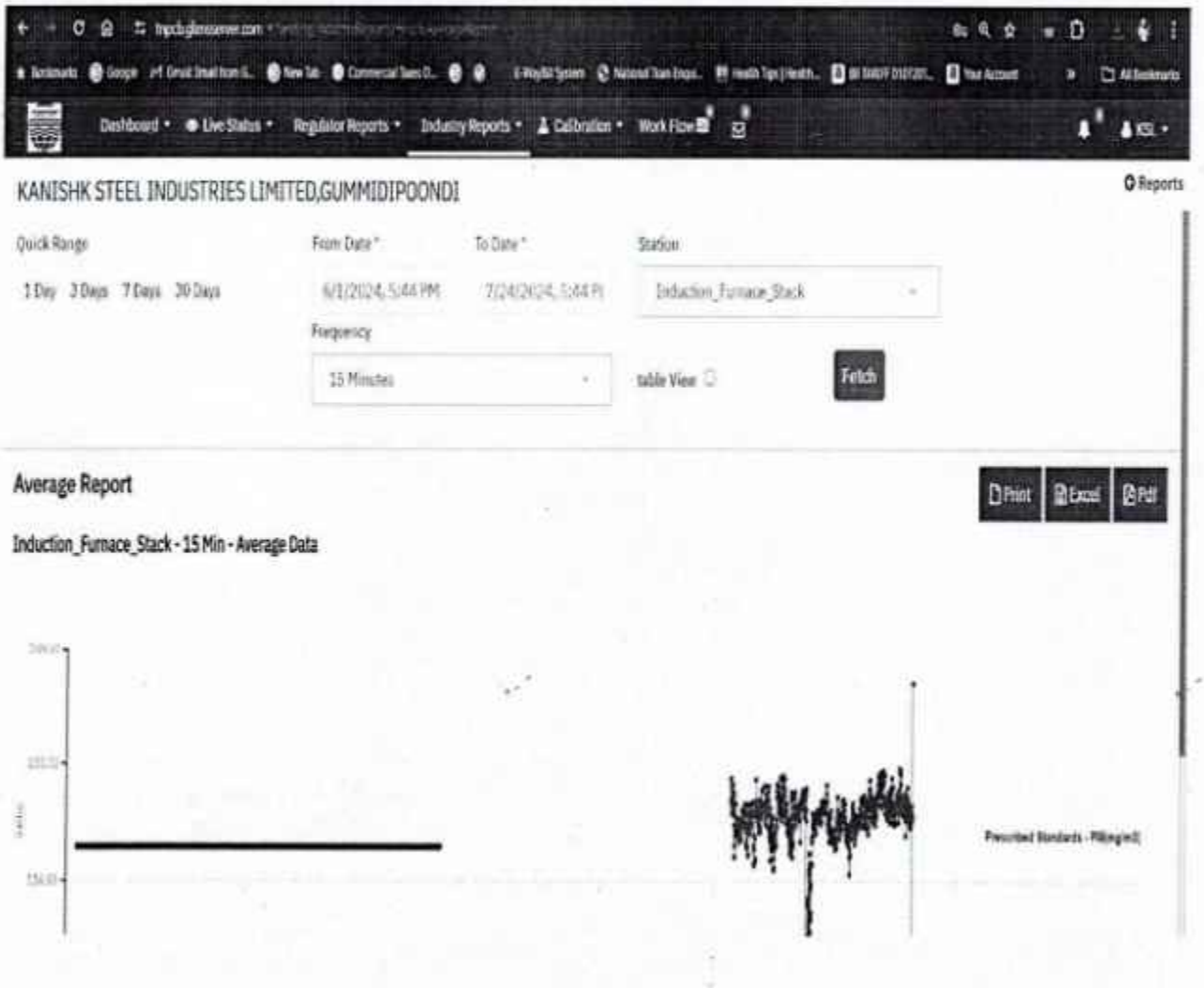
PHOTOS OF FURNANCE (Page No.5 & Conditions SI.No.3)



ENCLOSURE-1

CARE AIR CENTRE ONLINE CONNECTIVITY OF M/S KANISHK STEEL INDUSTRIES LIMITED

(Page No.5 & Conditions SI.No.3)



ENCLOSURE-2

LETTER REPORT OF ANALYSIS

(Page No.5 & Conditions Sl.No.3)

TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Ambattur

From	To
Dr. K Sarumathy M.Sc., M.Phil., P.hD, Deputy Chief Scientific Officer, District Environmental Laboratory, No.77-A South Avenue Road, Ambattur Industrial Estate, Ambattur, Chennai-600 058.	M/S. Kanishk Steel Industries Ltd Plot No.B-37 SIPCOT Industrial Complex Gummidipoondi Pin-601201

Lr.No.TNPCB/ ROA No.27/2024 - 25/DEL/AMB/AAQS/SM **Dated: 02.07.2024**

Sir

Sub: Furnishing of Report of Analysis of Ambient Air Quality/Stack Monitoring / Ambient Noise Level Survey regarding.

Ref: 1. G.O.(2D) No. 13 (Revised Rate From 01.09.2021) dated 31.08.2021
2. This Office Lr.No.50/2024-25 Dated : 18.06.2024
3. Cash Receipt No.121 Rs. 84,350 Dated : 21.06.2024
4. Your lr. No.121 Dated : 21.06.2024

.....

I am sending herewith the Report of Analysis of Ambient Air Quality /Stack Monitoring/Ambient Noise level Survey conducted in the vicinity of your Industry on 26.06.2024 with an invoice for a sum of Rs.84,350.00/- (Rupees Eighty Four Thousand Three Hundred and Fifty Only) towards the above survey/analysis charges and same has been adjusted with the advance fees received vide reference cited.

Kindly acknowledge the receipt of the report without fail.

Deputy Chief Scientific Officer,
DEL, Ambattur

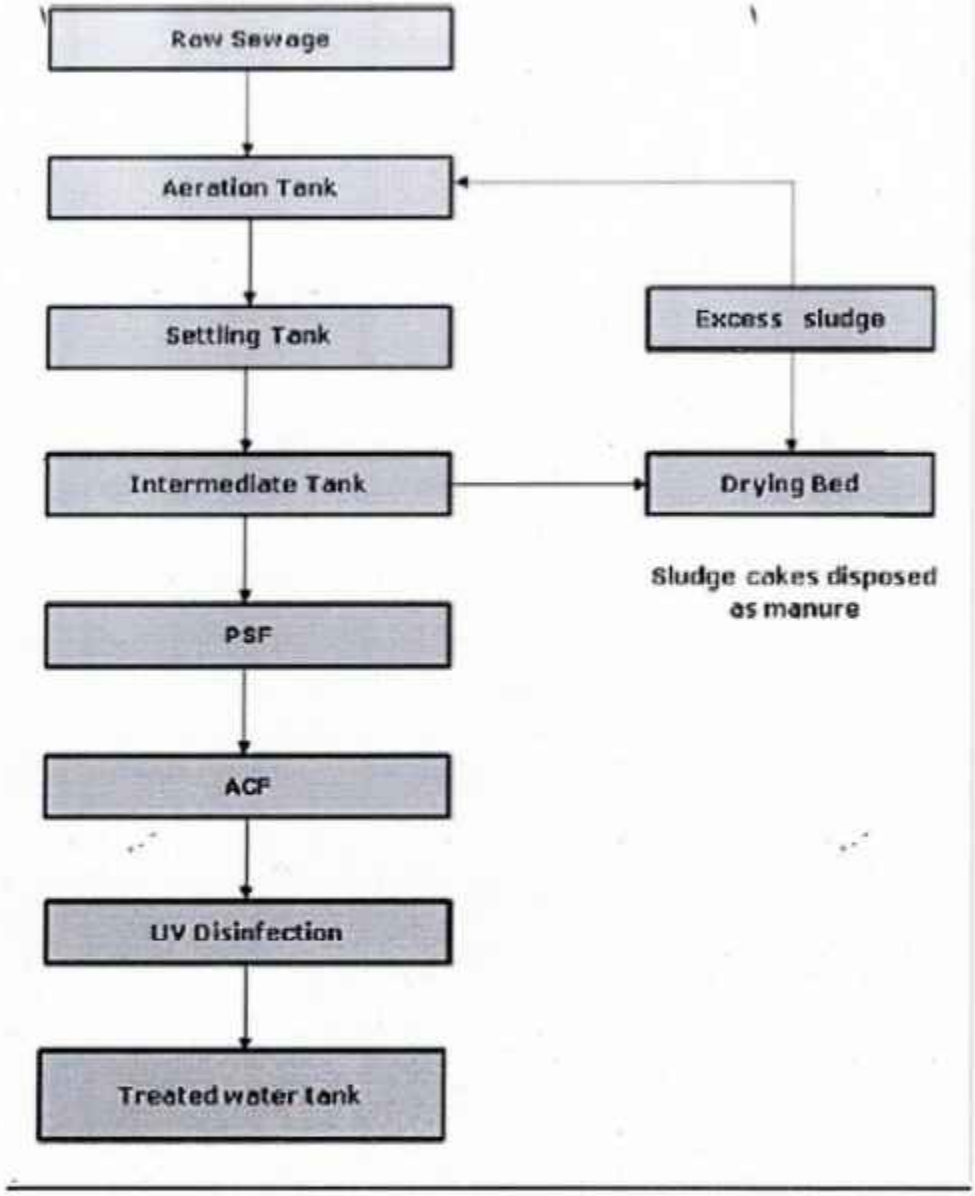
Encl: As above

Copy to

1. The District Environmental Engineer, TNPCB, Gummidipoondi
2. File

ENCLOSURE-3

SEWAGE TREATMENT PLANT (STP) SCHEME (Page No.6 & Conditions SI.No.6)



DETAILS OF STP COMPONENTS

Sr. No.	Components	Dimension (in meters)
1	Sewage transfer pump	1HP
2	Air Blower- in C.I	Twin lope - 2 Nos.25m3/hr
3	Disc diffuser-PP with EPDM	2 Nos.
4	Aeration Tank- in MS	1.5m x 1.5m x3.0m TD
5	Settling Tank - in MS	1.5m x 1.5m x2.5m (HOS)
6	Filter Feed pump	1 HP
7	Sludge drying beds - BW	1.0m x 1.0m x 1.0m TD-3 Nos.
8	Pressure sand filter - in MS	0.3m x 1.1m HOS
9	Activated carbon filter - in MS	0.25m x 0.9m HOS
10	UV system	2000 LPH
11	Treated water tank	1000 L

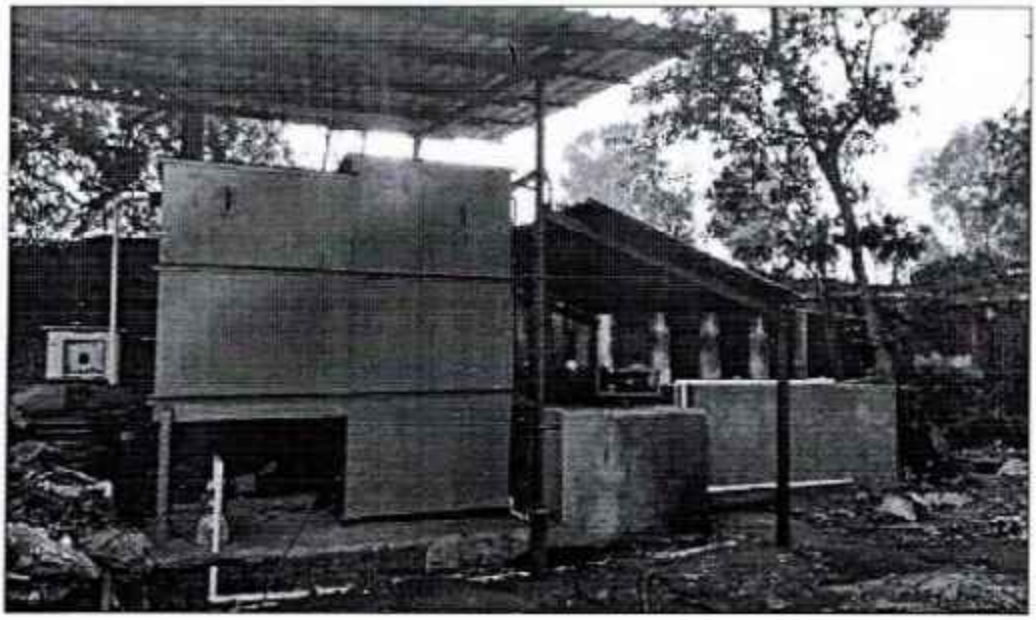
Source: KSIL, Gummidipoondi

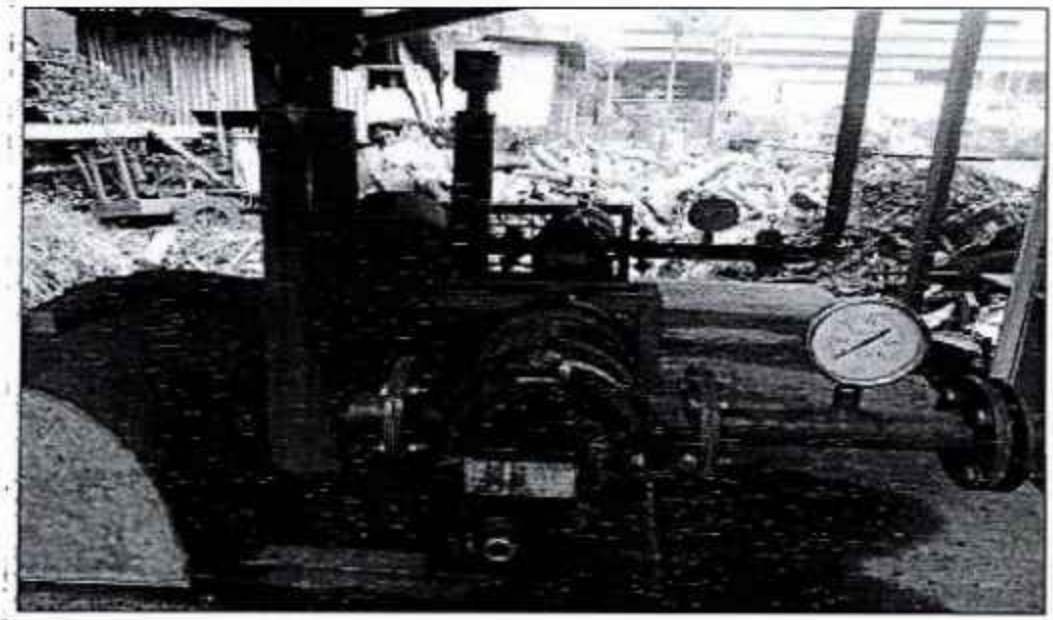
WASTE WATER TREATMENT PLANT OF 10MLD

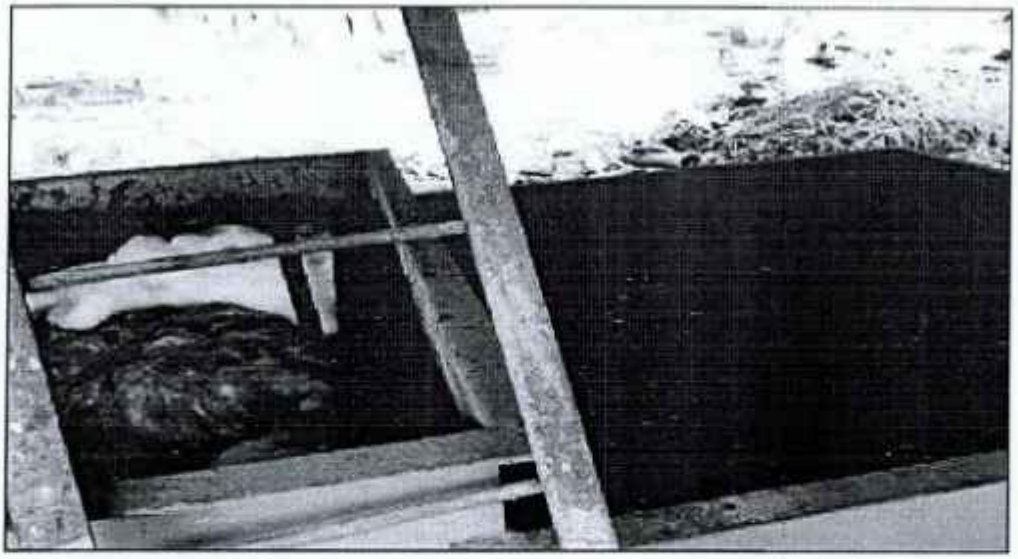




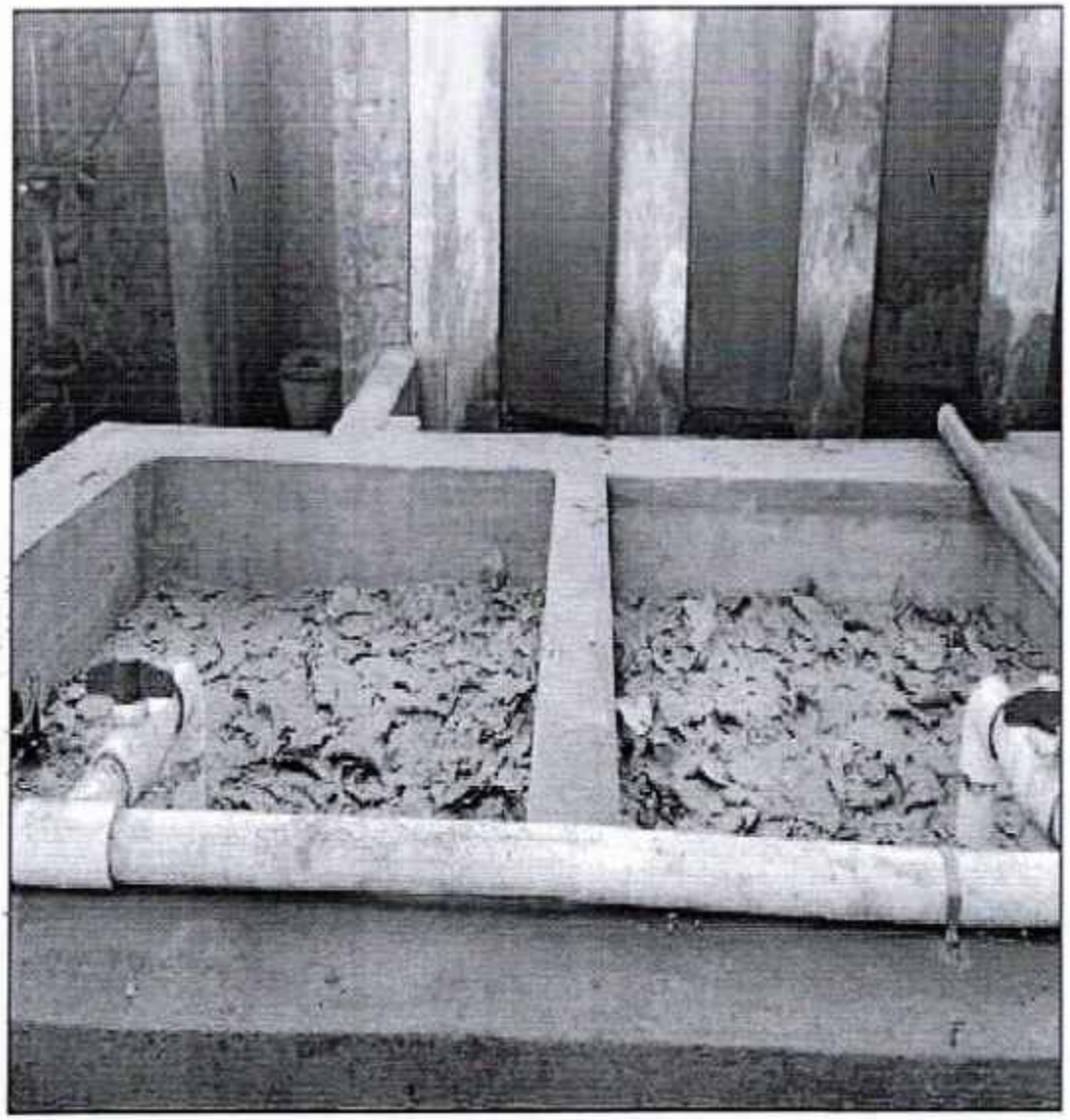
TREATMENT PROCESS









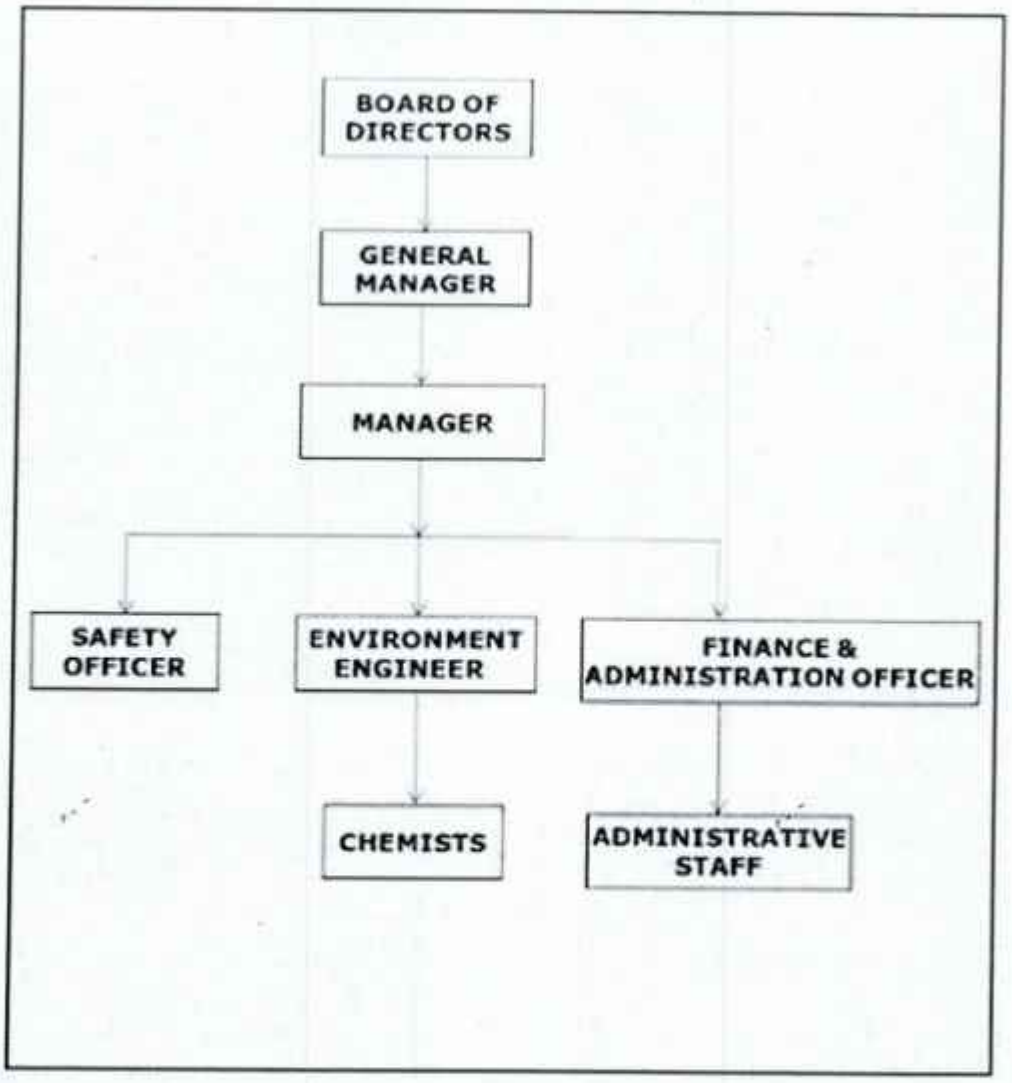


SLUDGE DRYING BED

ENCLOSURE-4

ORGANISATIONAL CHART OF ENVIRONMENTAL CELL

(Page No.6 & Conditions SI.No.11)



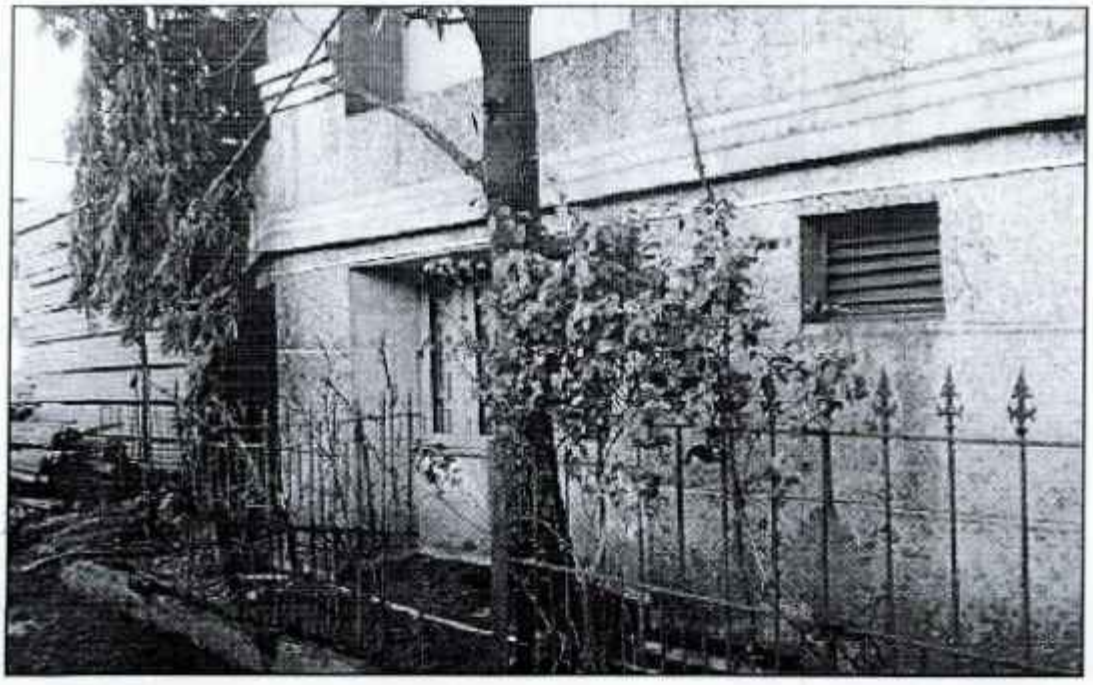
ENCLOSURE-5

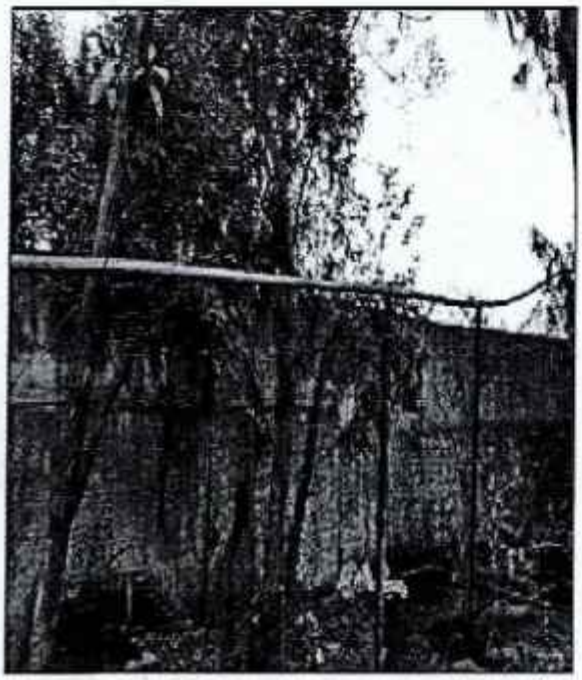
PHOTOGRAPHS OF EXISTING GREEN BELT

(Page No.7 & Conditions SI.No.14)



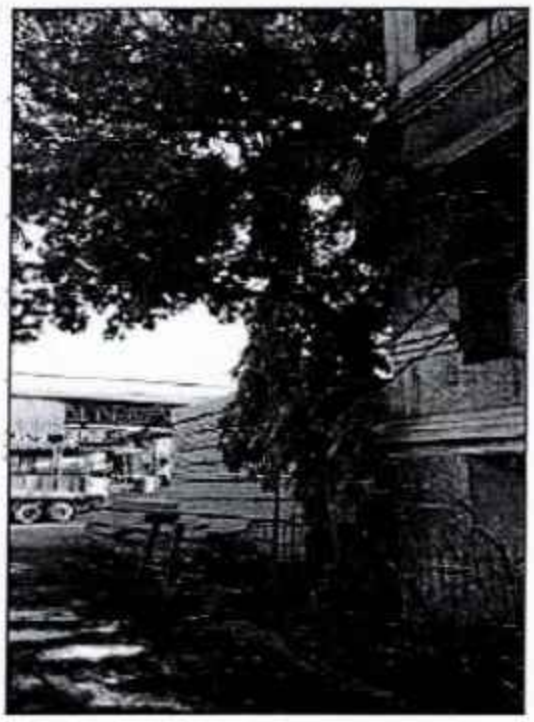














DETAILS OF TREES

Sr. No.	Name of the Trees	Numbers of Trees
1	Banyan Tree	2
2	Mast Tree	12
3	Neem Tree	2
4	Mango Tree	4
5	Tamarind Tree	2
6	Ficus Religiosa Tree	9
7	Coconut Tree	9
8	Teakwood Tree	27
9	Almond Tree	9
10	Palm Tree	4
11	Guava Tree	1
12	Andrographic Paniculata Tree	10
13	Portia Tree	5
14	Pungai Tree	10
15	Mahogary	120
16	Badam Tree	5
17	Other Trees	25
Total		**256**

Source: KSIL, Gummidipoondi.

ENCLOSURE-6

COST FOR CORPORATE ENVIRONMENTAL RESPONSIBILITY

(Page No17.& CER Conditions SI.No.I)

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	IMPROVEMENT AND REJUVANATION OF THAMRAI ERI POND AND GREEN DEVELOPMENT ACTIVITY TREES PLANTED IN AND AROUND OF THAMRAI ERI LAKE	15.43
2	AT 15 WARD NEAR VILLAGE GANGANTHOTTI DRINKING WATER FACILITY PROVIDED	2.0355
	Total	**17.46**

Source: KSIL, Gummidpoondi.

ENCLOSURE-7

EMP IMPLEMENTATION SCHEDULE

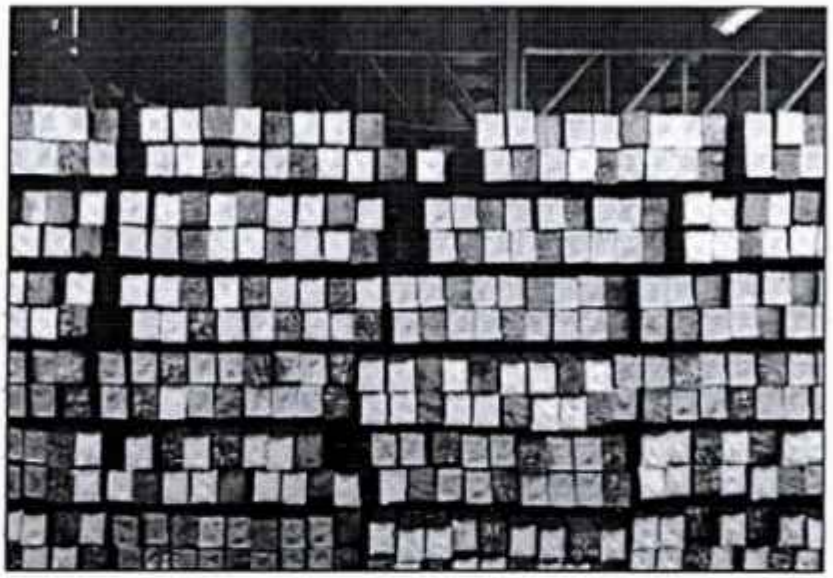
(Page No18.& CER Conditions SI.No.IV)

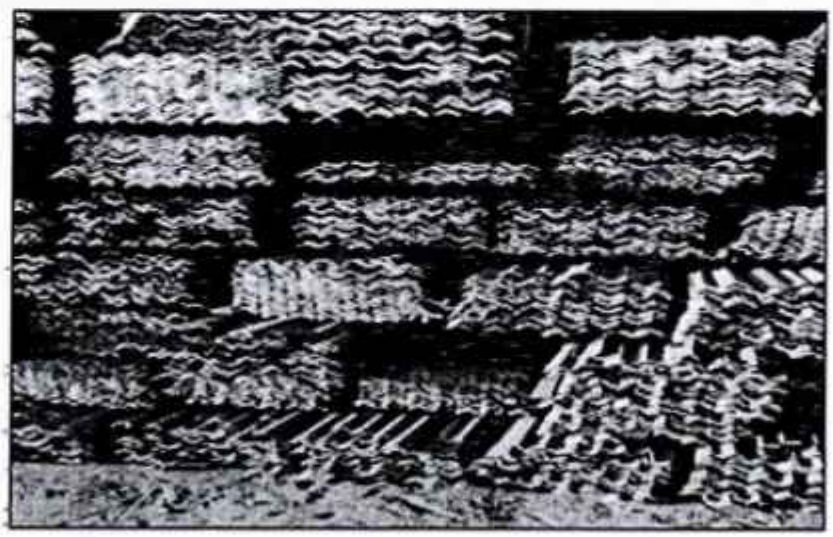
Sr.No	Recommendation	Requirement /Status
1	Air pollution control measures	Air pollution control measures provided in industry
2	Water pollution control measures	Water pollution control measures provided in industry
3	Noise control measures	Noise control measures provided in industry
4	Solid waste management	Solid waste management is implemented
5	Greenbelt development	Work in progress and will done at stage wise implementation

ENCLOSURE-8

PRODUCT STORAGE AREA

(Page No.21 & Specific Conditions SI.No.6)





ENCLOSURE-9

COST FOR ENVIRONMENTAL MEASURES PLAN

(Page No26 & Specific Conditions Sl.No.36)

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	Air pollution control system	115
2	Water pollution control system	40.9
3	Environmental Monitoring	4.96
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	176

Source: KSIL, Gummidpoondi.

ENCLOSURE-10
CSR ACTIVITY

(Page No.28 & General Conditions SI.No.6)

KANISHK STEEL INDUSTRIES LTD
Old No 6, New No 7, Thiru Vi Ka II Street, Royapettah High Road
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919715
E-mail : info@kanishksteels.in

M/s Kanishk Steel Industries Limited

Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District -601201

CSR ACTIVITIES

Sl.No	Social Project Completed	Cost (Rs. In Lakhs)
1	PRIMARY SCHOOL VIVEKANDHA NAGAR GUMMIDIPOONDI – 601201 DRINKING WATER BORE AND TANK INSTALLED	2.4
2	SCHOOL BAG KITS GIVEN TO THE PRIMARY SCHOOL	0.35
3	AROUND 600 TREES PLANTED IN AND AROUND OUR COMPANY AND TREE GUARDS (MESH) GIVE TO GUMMIDIPOONDI TOWAN PANCHYT	1.358
4	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2022-2023	14.69
5	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2023-24	19.02
6	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2024- TILL JULY	6.60
	Total	43.22

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi-601 201
Ph : (044) 27922187, 27922774 Fax : 27922835, 27922124

ENCLOSURE-11

News Paper Advertisement

(Page No.31 & General Conditions SI.No.16)

PUBLIC NOTICE

This is to inform that proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets unit located at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district, Tamilnadu has been accorded Environmental Clearance by the State Environmental Impact Assessment Authority of Tamil Nadu. The copies of the said clearance are available with the Tamil Nadu Pollution Control Board and may also be seen on the website of the State Environmental Impact Assessment Authority of TamilNadu at Https://environmentclearance.nic.in/TrackState_proposal.aspx?Type=EC&status=EC_new&statename=Tamil%20Nadu&pno=SIA/TN/IND/19912/2017&pid=62926

By, M/s. Kanishk Steel Industries Limited, Gummidipoondi

பொது அறிவிப்பு

இதன்மூலம் அனைவருக்கும் தெரிவிப்பது என்னவென்றால் M/s. Kanishk Steel Industries Limited, கும்மிடிபூண்டி, என்பவர்களுக்கு சொந்தமான பிளாட் எண். B 27 (N,M&S) SIPCOT தொழில்துறை வளாகம், கும்மிடிபூண்டி, திருவள்ளூர் மாவட்டம், தமிழ்நாடு என்ற இடத்தில் எஃகு உருக்கும்ஆலை மற்றும் உருளும் ஆலையில் 76000 TPA வின் மீண்டும் உருட்டப்பட்ட தயார்ப்புகள் அல்லது கட்டமைப்புகள் மற்றும் 83,000 TPA வின் MS பில்லெட்டுகள் விரிவாக்கத்திற்கான மற்றும் மேம்பாட்டிற்கான எங்களின் முன்மொழியப்பட்ட கட்டுமானத்திற்காக மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் ஒப்புதல் நகல்கள் தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியம் மற்றும் தமிழ்நாடு மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் இணையதளத்தில் பெறலாம்.

இடம்: சென்னை

தேதி: 08.06.2024

M/s. KANISHK STEEL INDUSTRIES LIMITED
Gummidipoondi

ANNEXURES

LIST OF ANNEXURES

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ANNEXURE - I

CONSENT TO ESTABLISH AIR ACT

Category of the Industry :

ORANG
E

CONSENT ORDER NO. 2206240023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987 (Central Act, 14 of 1981)-Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to

The Director,
M/s . KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027** , or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:02 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,

Chennai-600 004.,
Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to establish for Expansion is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T (existing)	Bag Filters with stack	32	20664
2	Induction Furnace 12T (proposed)	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3 **Special Additional Conditions:**

i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4 **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
3. The unit shall operate and maintain the Air Pollution Control measures attached to existing induction furnace & DG sets efficiently and continuously so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
4. The unit shall conduct AAQ/SM/ANL through TNPC Board lab periodically and furnish ROA to the Board.
5. The unit shall provide Bag filter with stack of height 32m as Air pollution control measures to the proposed Induction Furnaces 12 T so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
6. The unit shall adhere the National Ambient Air Quality / Stack / Ambient Noise Level standards prescribed by the Board from time to time.
7. The unit shall provide Online Continuous Emission Monitoring System (OCEMS) in the stacks of induction furnaces for monitoring emission parameters SPM, SOx, NOx, and the same shall be connected with Care Air Centre, TNPCB, Chennai prior to the commissioning of the expansion activity.
8. The unit shall meet the particulate matter standards of 150mg/NM3 for emission from induction furnace.
9. The unit shall continue to develop green belt to an extent of 33% of the total extent of land at rate of 400 trees/hectare.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - I

CONSENT TO ESTABLISH
WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206140023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 25 of the Water(Prevention and control of Pollution)Act,1974 , as amended in 1988 (Central Act 6 of 1974) –Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 53 of 1988) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Director,
M/s. KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,
Chennai-600 004.,
Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	**Sewage Treatment Plant:**		
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	STP	1	10KL/day.
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Collection tank	1	6.0x3.0x3.0
2.	Aeration tank	1	1.5 m x 1.5 m x 3.0
3.	Settling tank	1	1.5 m x 1.5 m x 2.5
4.	FILTER FEED TANK	1	1000 L Sintex
5.	PRESSURE SAND FILTER	1	0.300 dia x 1.1 m ht
6.	Activated Carbon Tank	1	0.250 dia x 0.9 m ht
7.	Sludge drying bed	2	1.0x1.0x1.50
b	**Effluent Treatment Plant:**		
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Solar Evaporation Pan	1	2.5m x 2.0m x 1.5 m
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

3. This consent to establish for Expansion is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent			
1.	Trade Effluent -1	19.0	Recycling to machine cooling
2.	Trade Effluent -2	2.45	Solar Evaporation Pans

4. **Special Additional Conditions:**

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

5. **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall furnish an undertaking in Rs.100 stamp paper that "it will abide by the outcome of application submitted for NOC before the National Bird Sanctuary Board" within 15 days to TNPCB.
3. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
4. The unit shall operate and maintain the existing Sewage Treatment Plant (STP) efficiently and continuously for treatment of sewage so as to bring the quality of treated sewage to satisfy the discharge standards prescribed by the Board at all times. The treated sewage shall be utilized for gardening/green belt development within the premises.
5. The unit shall provide elevated Solar Evaporation Pan (SEP) of adequate surface area for the disposal of trade effluent arising from the wet scrubber bleed off by evaporation as proposed.
6. The unit shall provide EMFMs in the fresh water consumption, inlet & outlet of STP and line of trade effluent (Scrubber bleed off) to SEP.
7. The solid wastes such as MS Scale from concast machine, Mill scale & furnace slag shall be collected properly and sent for beneficial use without any accumulation within the premises. Records of transport & disposal in this regard shall be maintained
8. The unit shall collect the end cut billets properly and reuse the same again the process.
9. The unit shall utilize the STP sludge as manure for green development inside the premises.
10. The unit shall submit the Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.
11. The unit shall not use 'single use and throwaway plastic items' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - II

REPORT OF ANALYSIS

TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Ambattur

From	To
Dr. K.Sarumathy M.Sc., M.Phil., P.hD, Deputy Chief Scientific Officer, District Environmental Laboratory No.77-A South Avenue Road, Ambattur Industrial Estate, Ambattur, Chennai 600 058	M/S. Kanishk Steel Industries Ltd Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201

Lr.No.TNPCB/ ROA No.27/2024 - 25/DEL/AMB/AAQS/SM **Dated: 02.07.2024**

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality/Stack Monitoring / Ambient Noise Level Survey-regarding.

Ref: 1. G.O (2D) No. 13 dated:31.08.2021
(Revised Rate From 01.09.2021)
2.This Office.Lr.No.50/2024-25 Dated : 18.06.2024
3.Cash Receipt No.121 Dated : 21.06.2024
Rs. 84,350
4. Your ltr. No.121 Dated : 21.06.2024

****

I am sending herewith the Report of Analysis of Ambient Air Quality /Stack Monitoring/Ambient Noise level.Survey conducted in the vicinity of your Industry on 26.06.2024 with an invoice for a sum of Rs.84,350.00/- (Rupees Eighty Four Thousand Three Hundred and Fifty Only) towards the above survey/analysis charges, and same has been adjusted with the advance fees received vide reference cited.

Kindly acknowledge the receipt of the report without fail.

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

Encl: As above

Copy to:

1. The District Environmental Engineer, TNPCB, Gummidipoondi
2. File

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur

Ambient Air Quality Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 Dated: 02.07.2024

1. Name of the Industry : M/S. Kanishk Steel Industries Ltd
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey : 25.06.2024 Consent No: 2307266530846
4. Duration of Survey : Eight hours Dated: 08.12.2023
5. Category : OL Validity Upto : March 31st 2033
6. Land use classification : Industrial

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30.0	36.0		42	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominent Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	15 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On Top of Scaffolding Near Admin Building	NE	60	2.0	68.1	--	13.5	15.6
2	On Top of Scaffolding Near labour quarters	E	50	2.0	69.1	38.4	16.6	19.1
3	On Top of Scaffolding Near storage yard	SE	60	2.0	72.1	--	16.2	18.8
4	On Top of Scaffolding Near stores	SW	70	2.0	85.6	--	17.1	19.7
5	On Top of Scaffolding Near laboratory	NW	80	2.0	70	40.1	18.3	21.2

Note :- * With respect to major emission sources.
The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Gaeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

Deputy Chief Scientific Officer,
DEL, Ambattur

STACK MONITORING SURVEY RESULT

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur

Stack Monitoring Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 Dated: 02.07.2024

1 Name of the Industry : M/S. Kanishk Steel Industries Ltd

2 Address of the Industry : Plot No B 27
SIPCOT Industrial Complex
Gummidipoondi
Pin 601201

3 Date of survey : 25.06.2024

4 Type of the Industry : Steel

Stack Monitoring Survey Results

Sl.No	Stack attached to	Stack Temp in K	Velocity in (M/sec)	Discharge Rate in (Nm^3/hr)	Pollutants (mg/Nm3)		
					PM	SO_2	NO_2
1	Induction furnace - 7 Ton Fuel:- EB APC Measure:- Bag Filters	416	11.8	34399	50.1	101.3	130.9
2	Induction furnace - 12 Ton Fuel:- EB APC Measure:- Bag Fillers	403	11.1	33401	48.5	106.6	134.5

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Gracke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

Deputy Chief Scientific Officer,
DEL, Ambattur

NOISE LEVEL SURVEY RESULT

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 27/AAQS/2024 - 25 Dated: 02.07.2024

1	Name of the Industry	M/S. Kanishk Steel Industries Ltd			
2	Address of the Industry	Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201			
3	Date of survey	26.06.2024			
4	Category	OL	Land Use Classification		Industrial
Type of survey		Ambient/Source		Time of Survey	Day
Meteorological Conditions		Calm			

Logging Parameters

Instrument Used	CESVA	**Serial No.**	T243104
Logging Interval	30 Minutes in each point	**Measuring Range**	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" Time Weighting	Slow
Sound Incidence	RANDOM	**Time in Hrs.**	15.30 - 16:20 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	LMin	LMax
1	Near Admin Building	30	60	NE	70.5	66.2	85.2
2	Near labour quarters	30	50	E	74.0	70.6	86.6
3	Near storage yard	30	60	SE	69.4	65.3	82.6
4	Near stores	30	70	SW	72.6	69.4	87.3
5	Near laboratory	30	80	NW	65.1	61.3	78.2

Leq Value is the average energy for the measured period

2.7.24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur

Invoice Bill

To
M/S. Kanishk Steel Industries Ltd
Plot No B-27
SIPCOT Industrial Complex
Gummidipoondi
Pin 601201

Bill No : 27/2024 - 25
Date : 02.07.2024

Ref: 1. G.O.(2D) No. 13 (Revised Rate From 01.09.2021) dated 31.08.2021
2.This Office.Lr.No 50/2024-25 Dated : 18.06.2024
3.Cash Receipt No 121 Rs. 84,350 Dated 21.06.2024
4. Your lr. No.121 Dated : 21.06.2024

****

Sl. No.	Description	Rate (Rs.)	No of Stations/ Stacks	Amount (Rs.)
1	**Sampling Charges**			
(i)	Ambient Air Quality Monitoring PM_{10}, SO_2, NO_2	3500	5	Rs. 17,500
(ii)	Ambient Air Quality Monitoring ($PM_{2.5}$)	3500	2	Rs. 7,000
(iii)	Source Emission Samples PM, SO_2, NO_2	13100	2	Rs. 26,200
2	**Analytical Charges**			
(i)	Ambient Air Samples PM_{10}, SO_2, NO_2 (each Rs.1050/-)	3150	5	Rs. 15,750
(ii)	Ambient Air Quality Monitoring ($PM_{2.5}$)	1800	2	Rs. 3,600
(iii)	Source Emission Samples PM, SO_2, NO_2 (each Rs.1050/-)	3150	2	Rs. 6,300
3	**Ambient Noise Level Monitoring charges**			
(i)	For first 5 stations	7000	1	Rs. 7,000
4	**Transportation Charges**			Rs. 1,000
	Total (Rs.)			**Rs. 84,350**
Less: Advance Amount CR. No: 121 dt 21.06.2024				**Rs. 84,350**
Balance amount				**Nil**

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

KIWIS/QF/7.8/01

WATER QUALITY TEST RESULT

KIWIS
KIWIS LABORATORIES PVT. LTD.
Recognized by MoEF & CC, GOI, New Delhi
Certified by ISO 9001:2015,
ISO 14001:2015 & OHSAS 45001:2018

Plot No. 39, ALEAP Industrial Estate,
SY. No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090
Email: kiwislabhyd@gmail.com
Ph. 99666 61385 / 040 23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Name and address of the client

M/s. Kanishk Steel Industries Limited, S.F. No. B-27 (N,M & S) SIPCOT Industrial Complex, Peddikuppam Village,Gummidipoondi, Tiruvallur district Pin: 601 201.

Date of report	*: 08-05-2024*	*Sample Collected by*	*: Kiwis Eco Laboratories Pvt Ltd.,*
Date of sampling	*: 28-04-2024*	*Sample Collected in*	*: in Plastic Cans*
Sample received on	*: 30-04-2024*	*Sampling Procedure*	*: KIWIS/SOP/Lab - 258*
Analysis starting date	*: 30-04-2024*	*Sample registration no/Code*	*: KSIL/W/COM/04/24/129*
Analysis completion date	*: 08-05-2024*	*Sample description*	*: Water Quality Monitoring*
Sub Contract Testing	*: NA*	*Name of the Location*	*: Ground water at Plant site*

Semples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
1	Color	Hazen	APHA 2120 C	<5.0	5	15
2	Turbidity	NTU	APHA 2130 B	<1.0	1	5
3	pH @ 25.0°C	-	APHA 4500H+ B	6.9	6.5-8.5	No relaxation
4	Electrical Conductivity	µmho/Cm	APHA 2510 - B	3270	Not Specified	Not Specified
5	Total Dissolved solids	mg/L	APHA 2540 C	1960	500	2000
6	Total Solids	mg/L	APHA 2540 B	1958	Not Specified	Not Specified
7	Alkalinity as $CaCO_3$	mg/L	APHA 2320 B	171	200	600
8	Hardness as $CaCO_3$	mg/L	APHA 2340 C	820	200	600
9	Calcium as Ca	mg/L	APHA 3500 Ca B	233	75	200
10	Magnesium as Mg	mg/L	APHA 3500-Mg B	58	30	100
11	Chlorides as Cl^-	mg/L	APHA 4500 Cl B	759	250	1000
12	Sulphates as SO_4	mg/L	APHA 4500 SO_4 D	158	200	400
13	Nitrate as NO_3	mg/L	APHA 4500 NO_3 B	4.4	45	No relaxation

Note : This report is subject to the terms and conditions mentioned overleaf

KIWIS
ENVI LABORATORIES PVT. LTD.
Recognized by MoEF & CC, GOI, New Delhi
Certified by ISO 9001:2015,
Iso 14001:2015 & OHSMS 45001:2018

Plot No. 19, ALEAP Industrial Estate,
SY No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090.
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040-23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
14	Sodium as Na	mg/L	APHA 3500 Na B	460	Not Specified	Not Specified
15	Potassium as K	mg/L	APHA 3500 K B	38	Not Specified	Not Specified
16	Fluoride as F	mg/L	APHA 4500F- D	< 0.5	1	1.5
17	Iron as Fe	mg/L	APHA 3500 Fe B	< 0.3	1	No relaxation
18	Zinc as Zn	mg/L	APHA 3111 B	<0.2	5	15
19	Cyanide as CN	mg/L	APHA 4500 CN- C, E	<0.05	0.05	No relaxation
20	Phenolic Compounds as C_6H_5OH	mg/L	APHA 5530 D (Direct Photometric Method)	<0.001	0.001	0.002
21	Lead as Pb	mg/L	APHA 3111 B	<0.01	0.01	No relaxation
22	Mercury as Hg	mg/L	APHA-3112 Hg B	<0.001	0.001	0.001
23	Manganese as Mn	mg/L	APHA 3111 B	<0.1	0.1	0.3
24	Cadmium as Cd	mg/L	APHA 3111 B	<0.003	0.003	No relaxation
25	Chromium as Cr^{+6}	mg/L	APHA 3500 Cr B	<0.01	0.05	No relaxation
26	Copper as Cu	mg/L	APHA 3111 B	<0.05	0.05	1.5
27	Total Coliform	MPN/ 100ml	APHA 9221B	<0.05	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample
28	E-Coli	MPN/ 100ml	APHA 9221G	<1.8	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample

Methods follow: APHA 24thEdition

NA: Not Applicable

Opinion and interpretation: Nil

- Reports pertained only to the submitted sample
- Test reports shall not be reproduced except in full, without written approval of the laboratory

Checked By

(V.Anusha)
(Sr.Chemist)

Authorized Signatory

(C.Saleem)
(Manager Laboratory)

End of the Report

Note : This report is subject to the terms and conditions mentioned overleaf

ANNEXURE - III

CSR AFFIDAVIT



தமிழ்நாடு तमिलनाडु TAMILNADU Rs.100/- BY 641000

Kanishk Steel Industrial Ltd
Gummidipoondi

V.S.K

95/10/20

AFFIDAVIT

We hereby propose and promise to the following developments and works at Gummidipoondi near our Factory;

1. Drinking water provision at Ganganthotty Village by installing 2 heavy duty hand pumps including bore drilling and platform ;Cost of 2 Numbers @ Rs.70,000/- each Rs.1,40,000/-
2. Providing retaining walls to Government Elementary School at Ma Po Si Nagar, Gummidipoondi for a length of 72 Metres with 1.8 Metre Height ; Cost of construction including materials: Rs.3,60,000/- ;
3. Provision of Toilets for the same school;
   2 Number Toilets @ Rs.60,000/- each Rs.1,20,000/- ;
4. Provision of 3 Number Toilets at Ganganthotty Village @ Rs.75,000/- , Rs.2,25,000/-

The total cost works out to Rs.8,45,000/- in all

S. MUTHU KUMARAN
S.No.66,
RCC No.7378/15
& 48570/16
CHENNAI-104.

S.MUTHU KUMARAN
ADVOCATE & COMMISSIONER OF OA

KANISHK STEEL INDUSTRIES LTD.

Director

ANNEXURE - IV

SAFETY TRAINING SESSION

SAFETY TRAINING SESSION

PLACE:

OP STEELS LTD

B-27 (M) SIPCOT Industrial complex,

GUMMUDIPOONDI - 601 201.

Date: 26th May, 2023.

By

Deputy Director (DISH) Mr.Durairaj

Deputy Director (DISH) Mr. G.Ashok

Director OP Steels Ltd Mr. Ashok

Participants : Staff & Employees of M/s OP Steels Ltd.





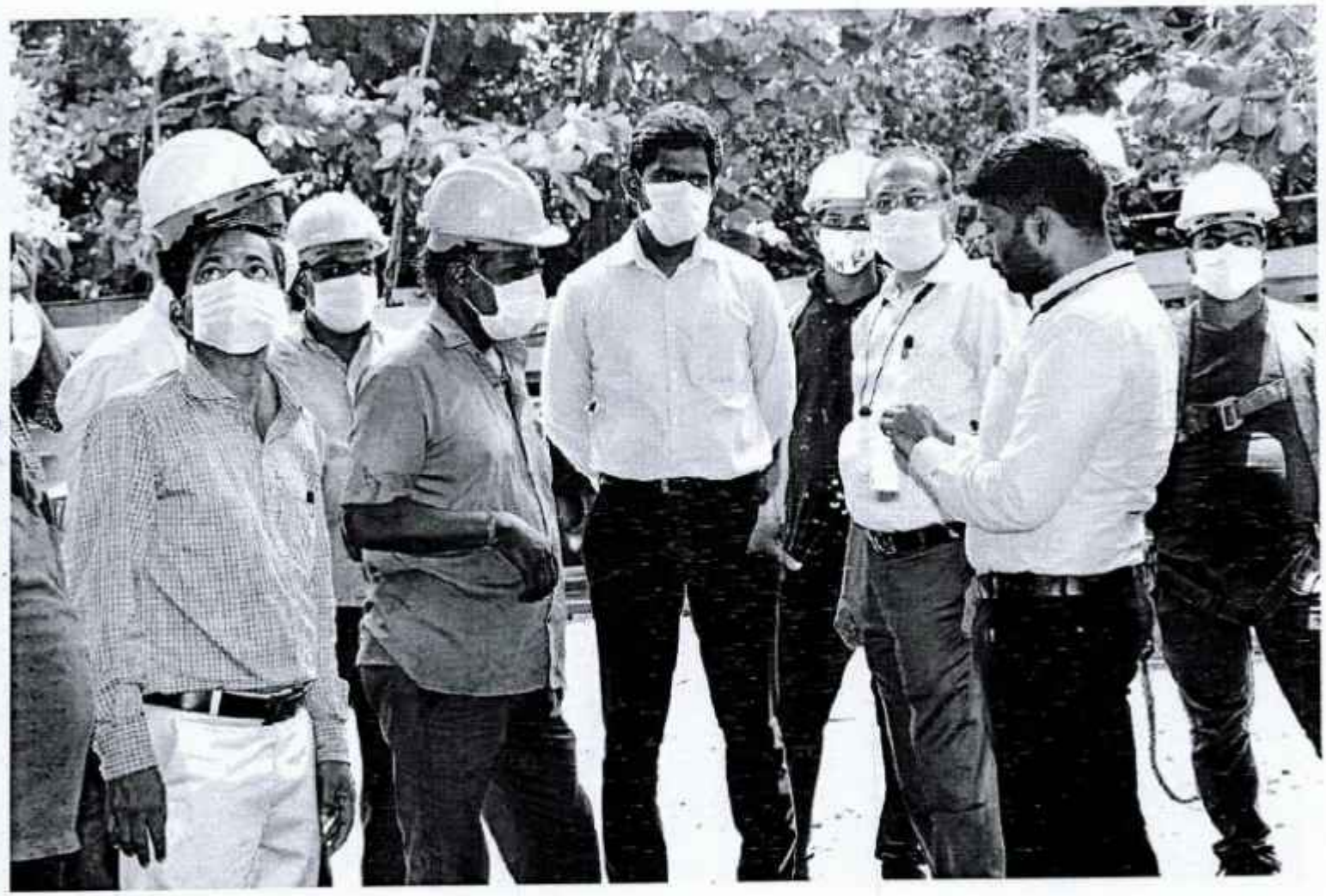












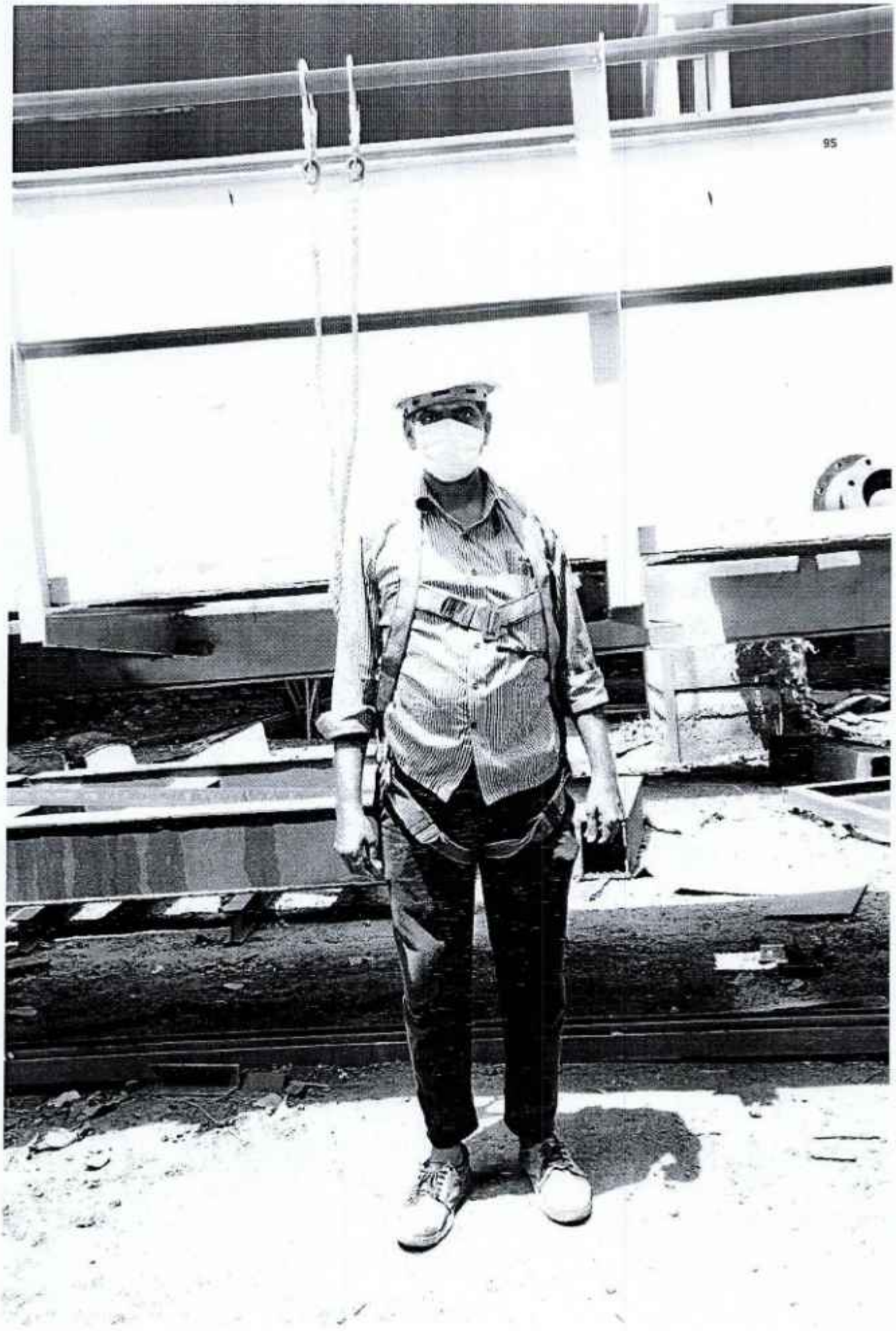












ANNEXURE - V

M/S KSIL MOU WITH HOSPITAL

ALPHA HOSPITAL

MEMORANDUM OF UNDERSTANDING

A Memorandum of Understanding was made on 1ST JANUARY, 2023 at Chennai, Tamil Nadu

BETWEEN

"HNX Healthcare Pvt Ltd" hereinafter referred to as "HNX Healthcare" which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of "HNX Healthcare Pvt Ltd"

AND

"KANISHK STEEL INDUSTRIES LTD" has its office at NO B-27 M & N Sipcot Industrial Complex, Gummidipoondi – 601201 (Formely OP STEEL LIMITED, NO B-27 M Sipcot Industrial Complex, Gummidipoondi-601201), Tamil Nadu, India, hereinafter referred to as "KANISHK STEEL" which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of "KANISHK STEEL".

Whereas, "KANISHK STEEL" has had a mutual discussion for the purpose of Operation & Maintenance of Health Checkup and OPD / IP facilities for their existing & retired employees and to their dependents.

HNX Healthcare Pvt Ltd have agreed to provide Operation & Maintenance of Health Checkup and OPD/IP for their existing & retired employees and to their dependents visiting the Hospital at the below mentioned addresses:

ALPHA HOSPITALS GUMMIDIPOONDI	340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Both the parties do hereby agree as follows:

This MOU is valid for 2 (Two) years from 1ST JANUARY, 2023

1. **HNX Healthcare** agrees to provide health checkups/ Pre employment health checks and all diagnostic treatments, consultants and other procedures for OP visits / IP and during emergencies to the employees of "KANISHK STEEL REFINERIES" (Existing & Retired employees and their dependents)

   As a Privileged member **"KANISHK STEEL"**, associates and family members can avail the following benefits at **ALPHA Hospitals** by displaying their ID & letter from concerned authority.

   - In Patient 10% discount (Excluding cost of medicines, implants, consumables).
   - IP discount is not applicable during health insurance covering patient treatment expenses.
   - During outpatient treatment 10% discount will be given on Investigations and consultations.
   - HNX Healthcare will provide half yearly health check-up camps and quarterly Health awareness talks for free of cost in a year and also conducts paid camps as many as the corporate requirements.
   - Ambulance services will be provided at free of cost for IP admission patients within Chennai limits.
   - Home-care services will be provided along with doctor and nurse based on the emergency need along with medicines at the patient place itself with special consideration will be on confirmation letter from the company stating to provide for the consent employee or retired person.
   - Health checkup packages / rates will be charged by HNX Healthcare as agreed, mentioned in the annexure-1

2. The employee will produce a letter from authority & employee ID card, at the time of admission applicable if the payment is done by **"KANISHK STEEL"**.

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

3. In case of emergency/ accident/ serious illness, the employee can be admitted to the hospital on producing his identity card / mediclaim card, in such case we will extend necessary medical facilities and intimate you within 24hours "KANISHK STEEL", will respond immediately and mail the letter of treatment approval advise
4. HNX Healthcare will submit the hospital bill within 7 days attested by the hospital authority if the payment is made by "KANISHK STEEL" the payment will be cleared within 30 days through NEFT Payment.
5. HNX Healthcare will give Treatment to "KANISHK STEEL" existing & retired employees and their dependents, based on Cash basis or Credit basis, On submission of Authorization letter / Mail issued by the Company in favor of the employee.
6. One point of contact needed from the "KANISHK STEEL" for any emergency to be reported to ALPHA HOSPITALS, who will be trained by us for the first aid management and intimating to the hospital regarding the emergency, based on emergency requirement ambulance will be sent to receive the patient for further management.
7. Referral procedure

"KANISHK STEEL"- Alpha Hospital - Secondary/ Tertiary care

Time duration: 45 - 50 mins MAX, they patient will get admitted in higher center after getting stabilized in Alpha Hopsitals

Governing Law, Dispute Resolution & Jurisdiction

a) This Agreement shall be governed by the Laws of India.

b) The agreement may be terminated by any of the parties by giving one month prior written notice to the other party.

c) In the event that the representatives of each Party fail to resolve the dispute, either Party shall be free to approach the Courts for resolution of the dispute.

d) The Courts of Chennai, Tamil Nadu shall have exclusive jurisdiction over any disputes arising out of this Agreement.

The parties have caused this MOU to be executed by their respective duly authorited representatives.

HNX
HEALTHCARE PVT. LTD

ALPHA HOSPITAL

MR. ASHOK KUMAR BOHRA
Director & GM
KANISHK STEEL INDUSTRIES LTD
Authorized Signatory

Dr. GIRISH DEVANADAN. P
Medical Director
HNX Healthcare Pvt Ltd
Authorized Signatory

MR. BALA GOVIND. S
Chief Operating Officer
Alpha Hospital
Authorized Signatory

HNX

ALPHA HOSPITAL

Annexure .1

Whole Body Health Checkup Details - Male- Rs 3999/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HbA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL / HDL Ratio
Liver Function Test
Total Protein, Albumin, Globular
A / G Ratio
Alkaline Phosphatase
SGOT
SGPT
GGTP
Bilirubin Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414899

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Per Rectal Examination (For Men)
Serum Calcium &phosphorus & S Electrolytes
HbsAg
Reticulocyte Count
PSA for Men
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Whole Body Health Checkup Details :- Female - Rs 4499/-
Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HBA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage, Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Pap Smear (for Woman)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Mammogram for Women
Reticulocyte Count
Ultrasound of Breast for woman if required
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pre- Employment Health checkup - Rs 1400 /-
1 E C G
2 X-Ray Chest
3 Blood Tests
Complete Haemogram (which includes RBC Count, Hemoglobin, Total WBC Count, ESR, Packed Cell Volume, Differential Count)
Blood Sugar Fasting
Blood Grouping & RH Type
Urea, Creatinine
Cholesterol
Urine Routine
4 Ophthalmic Examination
5 ENT Examination (With Audiometry Test)
6 Spirometry
7 General Examination

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX HEALTHCARE PVT LTD

AUTHORIZED SIGNATURE

ALPHA HOSPITAL

Annexure :2

Locations details:

ALPHA HOSPITALS GUMMIDIPOONDI	340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201

ALPHA HOSPITAL

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Annexure: 3

Hospital Contacts:

Contact Person for all Appointments/ Enquiry:

1. Dr Vinod Babu / 7277723456
(Chief Executive Officer)
Timing: 24/7

2. Mr. NITIN PRASAD / 9790850909
(DGM - Corp. Relations)
Timing (9am – 6pm)

ALPHA HOSPITAL

ANNEXURE - VI

HAZARDOUS WASTE AUTHORIZATION

AUTHORISATION No. 22HFC43641507 dated 30/08/2022

Proceeding No. T2/TNPCB/F.0119GMP/HWA/OL/GMP/2022 dated 30/08/2022

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, GUMMIDIPOONDI Taluk, Tiruvallur District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. Application No. 43641507 dated 22/02/2022 and resubmitted on 05.07.2022 under HOWM Rules, 2016
2. HWA-IR.No.0119GMP/HWA/OL/DEE/GMP/2022 dated 20/07/2022

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 22HFC43641507 and dated : 30/08/2022

2. The Director of M/s. KANISHK STEEL INDUSTRIES LIMITED is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation, Collection, storage & transportation of hazardous or other wastes or both on the premises situated at S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, GUMMIDIPOONDI Taluk, Tiruvallur District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	0.3 T/Annum	Generation, Collection, Storage, Send to HW Recyclers for recycling (Recyclable)
2	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.2-Wastes or residues containing oil	1 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)
3	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1-Exhaust Air or Gas cleaning residue	25 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)

3. This authorization shall be valid for a period upto 31/03/2027.

The Authorization is issued subject to the following general and special conditions annexed.

RAMASAMY RAJAMANICKAM Digitally signed by RAMASAMY RAJAMANICKAM Date: 2022.08.31 13:13:57 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire ,etc and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty".
7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.
8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of Authorisation.
11. The importer or Exporter shall bear the cost of import or export or mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.
14. Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

D. SPECIFIC CONDITIONS - Actual Users (Recyclers/Pre-processors/Co-processors)

1. The actual user shall be responsible for safe and environmentally sound management of hazardous and other wastes
2. The actual user shall procure and process the hazardous and other wastes for reuse, recycle, pre-process, utlise including co-processing for beneficial purposes only.
3. The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from TNPCB in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.
4. The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation
5. Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user
6. The actual user handling hazardous and other wastes shall file an annual return in Form 4 to TNPCB on or before the 30th day of June following the financial year to which that return relates.

7. The actual user or the transporter shall immediately intimate TNPCB through telephone, e-mail about the accident and subsequently send a report in Form 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation
8. The actual user, importer or exporter shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other wastes.
9. The actual user shall not be permitted to import hazardous and other wastes from any country to India for disposal.
10. The actual user shall not be permitted to import hazardous and other wastes specified in Schedule VI of the rules.
11. The actual user shall import hazardous and other wastes from any country only for recycling, recovery, reuse and utilisation including co-processing.
12. The actual user shall import the hazardous waste as in Part A of Schedule III after obtaining prior informed consent of the exporting country and the permission of the Ministry of Environment, Forest and Climate Change
13. The actual user shall maintain records of the hazardous and other waste imported by him in Form 3 and the record so maintained shall be made available for inspection.

ADDITIONAL SPECIFIC CONDITIONS

1. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time while handling of hazardous waste.
2. The unit shall collect, store and send Schedule-1 HW category 5.1-Used or spent oil generated to TNPCB Authorised Recycler having valid consent under Water & Air Acts & Authorization under HOWM Rules, 2016 for recycling.
3. The unit shall collect, store and send Schedule-1 HW categories 35.1- Exhaust Air or Gas cleaning residue generated & 5.2-Wastes or residues containing oil to TNPCB Authorised Pre-processor M/s GEPIL having valid consent under Water & Air Acts & Authorization under HOWM Rules, 2016 for Pre-processing and send to Co-processing in cement kilns.
4. The unit shall store the hazardous wastes in containers, barrels etc with labelling on impervious floor under closed shed within the premises for a period not exceeding ninety days as per the Rule 8 of HOWM Rules, 2016.
5. The unit shall procure/purchase the iron & steel scraps from generating industries from domestic sourcing as permitted for captive use for the production of steel re-rolled products as consented.
6. The unit shall import the iron & steel scraps as mentioned in the other wastes listed under Basel No. B1010 in Part-D of Schedule-III of the HOWM Rules, 2016 using Import Export Code certificated issued O/o of Additional Director General of Foreign Trade, Chennai as permitted directly for captive use purpose as raw material in the production of product steel re-rolled products and shall restrict/avoid sourcing imported metal scrap thro' various traders
7. The unit shall store the imported &domestic sourced ferrous metal scraps in an earmarked area under shed within the premises.
8. The unit/actual user shall obtain all required information from authorities of the exporting country on the nature of waste imported and ensure that no explosive or other material causing environmental damage is imported along with the said waste
9. In case of environmental damages arising due to improper handling of hazardous wastes including accidental spillage during generation, storage, processing, transportation and disposal, the unit shall be liable to implement immediate response measures, environmental site assessment and remediation of contaminated soil/ groundwater/ sediment etc. as per the "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Wastes and Penalty" published by CPCB
10. The unit shall maintain records in FORM-3 for hazardous waste generation & disposal, metal scraps imported, utilised, furnish Annual Returns in FORM-4 for every financial year before 30th June & manifest document in Form-10 for transport of hazardous waste as per provisions of HOWM Rules, 2016.
11. The unit shall update information on HW details in the display board installed at the factory entrance gate regularly.

12. The unit shall operate with valid Consent under Water Act & Air Act and Authorization under HOWM Rules, 2016 at all times.

Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.06.21 13:14:22 +05:30

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

To
The Director
KANISHK STEEL INDUSTRIES LIMITED
Plot No. B-27 (N,M & S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district
Pin:600004

Copy to:

1. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS (ISSUED ALONGWITH AUTHORISATION)

Name and address of the Industry-Actual users	KANISHK STEEL INDUSTRIES LIMITED Plot No. B-27 (N,M & S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district
OCMMS File No	0119GMP/HWA
Mobile No	9940048723
E-mail Id	kanishkgpd@gmail.com
Passbook Registration No	PB/22HFC43641507
Date of issue	30/08/2022
Validity period	30/08/2022 To 31/03/2027

Type and quantity of the Hazardous & Other Wastes permitted for procurement and recycling:

SI No	Hazardous & Other Wastes Type	Quantity with unit	Source
1	Schedule - III, Other Waste, Part-D, B1-Metal and metal-bearing wastes, Basel No. B1010- IRON & STEEL SCRAP	30000 T/Annum	Imported
2	Schedule - III, Other Waste, B1-Metal and metal-bearing wastes, B1010-IRON & STEEL SCRAP (domestic sources)	6000 T/Annum	Domestic

RAMASAMY RAJAMANICKAM

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Date: 2022.08.31 13:14:09 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

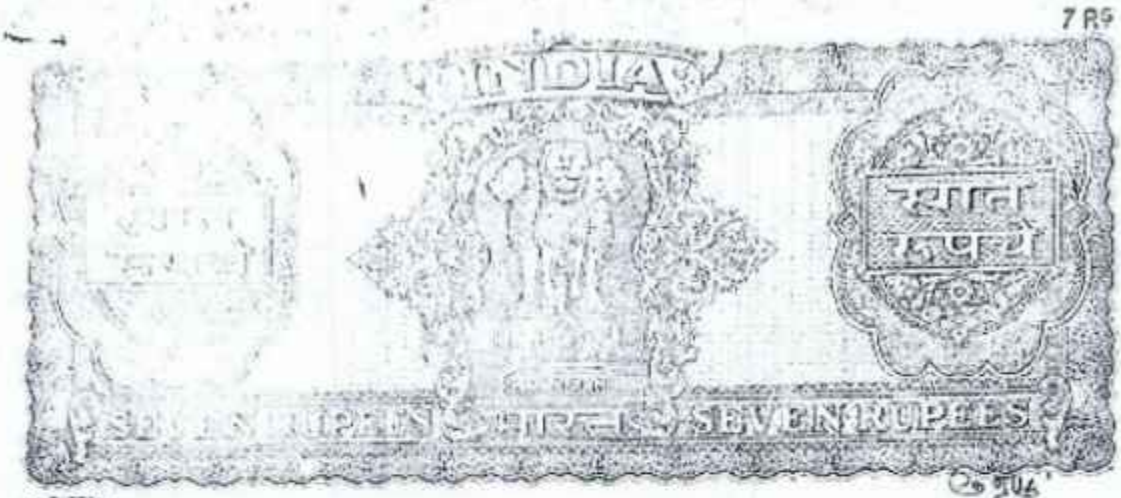
Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

ANNEXURE - VII

WATER AGREEMENT



AGREEMENT FOR THE SUPPLY OF WATER FROM THE WATER SUPPLY SCHEME, SIPCOT INDUSTRIAL COMPLEX.

This Agreement made at Gummidipoondi on the 29th day of November One Thousand Nine Hundred and Ninty One between STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT) having its Registered Office at 19-A, Rukmani Lakshmipathy Road, Egmore, Madras - 600 008. and represented by its Project Officer Thiru. A.PALANIAPPAN, (hereinafter called "SIPCOT" which expression shall unless the context otherwise requires include its successors, legal representatives administrators and assigns) of the ONE PART:

for Kalpakk STEEL INDUSTRIES

Manager.

AGREEMENT FOR THE SUPPLY OF WATER FROM THE WATER SUPPLY SCHEME, SIPCOT INDUSTRIAL COMPLEX.

This Agreement made at GUMMIDIPUNDI the..... day of..... One Thousand Nine Hundred and Ninety One between STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED (SIPCOT) having its Registered Office at 19-A, Rukmani Lakshmipathy Road, Egmore, Madras-600 008, and represented by its Project Officer Thiru A.PALANIAPPAN, (hereinafter called "SIPCOT" which expression shall unless the context otherwise requires include its successors, legal representatives administrators and assigns) of the ONE PART :

AND M/S. KANISHK STEELS (P) LTD,, a Proprietory/firm/a company registered under the Companies Act, 1956, /firm registered under the Indian Partnership Act, 1932 having its Registered Office at No.5, 6th Street, Dr.Radhakrishnan Salai, Mylapore, Madras-600 004. represented by its (1) Director, Thiru.Rajesh Gupta (2)..... (hereinafter called "The Company" / "Firm" which expression shall unless the context otherwise requires include their successors, adminstrators, legal representatives and assigns) of the other Part, whereby it is agreed to as follows :

Whereas the Company/Firm has requested SIPCOT to supply water to the Company/ Firm for the use of the Company/Firm from the Water Supply Scheme under the control of SIPCOT and located at the Industrial Complex GUMMIDIPOONDI...and SIPCOT agrees to supply water to the Company/Firm inrespect of the industry set up by the Company in SIPCOT Industrial Complex for a period of Five (5) years from the date of commencement of water supply to the Company/Firm in the first instance on the terms and conditions hereinafter mentioned.

Now this Deed witnesseth as follows :—

1 The pumps and pipelines upto the termination receiving point of the Company / Firm shall be installed by SIPCOT at its cost and they shall always remain the prope.ty of SIPCOT.

2 SIPCOT shall man and run these pumps and maintain the pumping mains connected therein including pump-houses and their sites and the same shall always remain the propertty of SIPCOT.

3 The cost of maintaining and repairing the said installation due to normal wear and tear shall be done by SIPCOT.

4 The water will be delivered as available from the infiltration wells and no treatment for industry will be done by SIPCOT.

5 Water will be supplied at the receiving point of the Company/Firm from the Over Head Tank of SIPCOT upto a limit of....5000..Litres per day on a 16 (sixteen) hour basis daily.

For KANISHK STEEL INDUSTRIES

Manager.

6 The water will be delivered in to the receiving point of the Company Firm from where pumping for the use of Factory will be the responsibility of Company Firm. SIPCOT and its Officers and servants will have free access to inspect and check the arrangements made at the delivery point.

7 The rate of pumping of water shall not normally exceed 5000 litres per day and the Company Firm shall make arrangement to receive and design the internal system with adequate capacity, pressure, etc.

8 If the change in pumping rate is called for, intimation thereon shall be given immediately in writing to the Shift Officer on duty sufficiently in advance. The Company / Firm shall allow a period upto 24 (Twentyfour) hours and the intimation shall take effect only upon the expiry of that period

9 The Company Firm shall not interfere with the actual pumping or working of the Scheme in any way and shall have no right whatsoever to give instructions to or to correspond with the staff of SIPCOT below the rank of the Project Officer Administrative Officer, directly.

10 Every attempt will be made by SIPCOT to supply water on a 16 (Sixteen) hour basis but in case of break down in the supply, the Company Firm shall make its own arrangements for supply (by having recourse to storage pumps of the Company / Firm system itself upto a period of 24 hours) and SIPCOT shall not be liable to answer or pay any compensation, damages, etc., on that account and for its failure to keep up continuous supply to its industry.

11 For the purpose of recovering charges from the Company Firm the water consumed by it shall be measured by water meters as herein provided, and the readings of the meters, by SIPCOT or its Officers shall be conclusive and binding upon the Company Firm.

11 (a) Water meters shall be installed by the Company Firm in the pipe line connecting the water supply with the Company / Firm and the maintenance of water meters shall be carried out by the company Firm. The Water-meters shall be checked and re-calibrated from time to time as agreed to by the two parties.

11 (b) The readings will be taken on the last day of every month or at convenient intervals as deemed necessary by SIPCOT. The readings shall be final and binding on the Company / Firm. For this, a representative of the Company / Firm when so desired and deputed by the Company Firm may attest the reading in the register maintained for the purpose.

11 (c) i. When the Water Meter goes out of order in any month, on any day, the water charges for the particular unit, will be worked out, based on the previous four months' average consumption.

ii. In any month months, during the previous 4 months, if the unit has not worked, and not drawn water, the corresponding month / months, preceding the previous 4 months, will be taken into account, for the purpose of working average water charges for four months.

iii. The Unit must replace the water, meter, within 21 days, from the date on which the meter went out of order. SIPCOT should also follow it by issuing notice in writing.

iv. In case, the unit fails to replace rectify the Meter within 21 days, the water charges will be worked out, based on the average consumption of three highest month, during the preceding 12 (twelve) months. The above rate will be charged from the month, on which the Meter went out of order, to the date of replacement, by revising the demand already made.

For KANISHK STEEL INDUSTRIES.

Manager.

v. In case, the unit has not replaced or repaired the water meter, even after 90 days, SIPCOT will have the option, to disconnect the Water Supply, after giving 7 days notice.

12 The charges for the quantity of water drawn by the Company/Firm for industrial purpose shall be payable at the rate agreed namely Rs. 4/- (four) per 1000 (one thousand) gallons subject to a minimum charge of Rs. 200/- per connection per month. This agreed rate is tentative and shall be subject to revision by SIPCOT after one year from the date of this agreement and reviewed every year there after and revised if necessary in conformity with the increase in the cost of maintenance energy rate, water royalty etc, which shall be paid the Company / Firm. The above gallon rate will be converted into litres wherever necessary and bill of demand sent accordingly.

13 The payment for each month at the rate agreed upon shall be paid by cheque or demand draft. The amount due shall be paid within 15 days of the receipt of the bill. Errors and omissions if any in the bill can be represented / pointed out only after payment of the amount as per bill amount.

14 If the Company / Firm fails to pay any bill within the period stipulated in Clause-13 of this agreement, SIPCOT, after giving 7 (seven) days notice in writing and without prejedice to other remedies open to it in Law, shall be entitled to cut off supply of water till such time that the bill in question is settled in full. For belated payments after the stipulated period mentioned in Clause-13 of this agreement, interest at 20% per annum will be collected over the bill amount under reference and the amounts due to SIPCOT without prejudice to the other mode of recovery shall be recovered as if it is an arrear of land revenue under Tamilnadu Revenue Recovery Act (Act II of 1864) as amended.

15 The Company / Firm shall not be entitled for any commission or rebate from the payment of minimum charges per month as per clause-11 of the Agreement whether water is consumed or not by the Company / Firm.

16 SIPCOT shall give atleast 24 hours notice in writing for any disruption in supply of water to the Company / Firm except due to the natural calamities or any other situation beyond the control of SIPCOT when such prior intimation cannot be given and SIPCOT is not answerable to any loss or claim for damages on account of such stoppage of supply.

17 SIPCOT shall be at liberty to connect any other resources of water supply to the pipe line installations at the Company / Firm and shall provide all information regarding the quality of water from new source whenever arranged.

18 Any disputes and differences between the parties arising out of or relation to this agreement shall be referred to the Managing Director of SIPCOT, whose orders shall be final and binding upon the Company/Firm.

19 When water is required for construction and commercial needs of the factory buildings, separates arrangement will be made and the charges fixed for construction deeds will be collected and the rates in clause-12 of this agreement are not applicable.

20 The Company shall promptly pay the charges towards premimum rent etc., in respect of the plot as required by the lease deed entered into between the Company and SIPCOT.

For KANNIK STEEL INDUSTRIES,

Manager.

21 The Company shall not sink any well / borewell / Tubewell within the plot leased to it.

22 Any change in the constitution of the Company shall be immediately informed to SIPCOT and its written consent obtained, in advance.

23 If SIPCOT for any reasons in accordance with the condition 30 of the lease deed, sells, leases or otherwise deals with the plot leased to the Company, it is hereby agreed that the water supply agreement stands autometically cancelled.

24 SIPCOT is at Liberty to determine this agreement and cut-off water supply for violation of all or any of the conditions aforesaid.

IN WITNESS WHEREOF THE parties to this Agreement have set and subscribed their respective hands on the day, month and year first above written.

PROJECT OFFICER
SIPCOT LIMITED

Witnesses :

1. (P. CHANDRASEKARAN)
AO. SIPCOT, Cuddalore

2. (S. MADHAVAN)
SIPCOT Limited,
Cuddalore

For [illegible]

.....

(Manager.

COMPANY / FIRM.

Witnesses :

1. (ASSTT. BOILER)
O.P. Stock.

2.

ANNEXURE - VIII

NOC - WILD LIFE CLEARANCE

Ref No. WL5/21519/2022

O/o. Principal Chief Conservator Forests (HoFF),
State Forest Headquarters,
Guindy-Velachery Main Road,
Chennai - 600 032
Dated: 01-03-2024

Sub: Forests – Wildlife - Online application received from M/s. Kanishk Steel Industries Ltd., - Expanding inside existing SIPCOT land (Industrial land use zone - SIPCOT Gummidipoondi) – National Board for Wildlife clearance requested – NOC Issued – Regarding.

Ref: Government of India, Ministry of Environment Forests and Climate Change, New Delhi letter F. No. WL-6/33/2024-WL dated 28-02-24.

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Attention of the Wildlife Warden, Chennai is invited to the references cited. It is informed that the Standing Committee of National Board for Wildlife has recommended the proposal vide Agenda No. 78.3.25. Based on the above, No Objection is hereby granted to expansion of Steel Melting Plant and rolling mill over an area of 3.015 Ha of non forest land for the production of 76,000 TPA of Re-rolled products / structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Pvt Limited subject to following conditions:

1) The project proponent shall obtain all other statutory clearance and also submit Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary if required.
2) The project proponent shall submit an undertaking stating that no disturbance will be caused to the wildlife during project implementation.
3) The project proponent shall ensure that there is no discharge from the project area towards into the sanctuary.
4) Any other conditions stipulated by the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Wildlife Warden, Chennai shall be followed.

The Wildlife Warden, Chennai is requested to send the annual compliance certificate on the stipulated conditions to be obtained from the User Agency to this office for onward submission to the Government of India. He is also

requested to send the Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary to this office for approval.

Encl: As stated above

Sd/- Srinivas R. Reddy
Principal Chief Conservator of Forests
and Chief Wildlife Warden

To
The Wildlife Warden,
Chennai.

Copy to the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Vandalur, Chennai – 48 for information and necessary action.

Copy to M/s. Kanishk Steel Industries Pvt Limited, B-27, MNS SIPCOT Industrial Complex, Gummidipoondi – 601 021 for information.

/True Copy / By Order /

for Senior Draughting Officer

24/3/21

ANNEXURE - IX

CTO - AIR ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307255530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL//GMP/A/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director

M/s . KANISHK STEEL INDUSTRIES LIMITED

S.F No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt

OLD GUMMIDIPOONDI Village

Gummidipoondi Taluk

Tiruvallur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:56:14 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Director,

M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T	Bag Filters with stack	32	20664
2	Induction Furnace 12T	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
5	Coal fired reheating furnace	Wet scrubber with stack	30	36787
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl. No.	Parameter	Unit	Tolerance limits	(1) (2) (3) (4) (5) (6)

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below:

Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	
				Industrial, Residential, Rural and other area	Ecologically Sensitive Area (notified by Central Govt.)
1.	Sulphur Dioxide (SO2)	Annual 24 hours	microgram/m3 microgram/m3	50 80	20 80
2.	Nitrogen Dioxide (NO2)	Annual 24 hours	microgram/m3 microgram/m3	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM10	Annual 24 hours	microgram/m3 microgram/m3	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	Annual 24 hours	microgram/m3 microgram/m3	40 60	40 60
5.	Ozone (O3)	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	**Industrial, Residential, Rural and other area** **Ecologically Sensitive Area (notified by Central Govt.)**
6.	Lead (Pb)	Annual 24 hours	microgram/m3 microgram/m3	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m3 miligram/m3	02 04	02 04
8.	Ammonia (NH3)	Annual 24 hours	microgram/m3 microgram/m3	100 400	100 400
9.	Benzene (C6H6)	Annual	microgram/m3	5	5
10.	Benzo(O) Pyrene (BaP) -particulate phase only	Annual	nanogram/m3	01	01
11.	Arsenic (As)	Annual	nanogram/m3	06	06
12.	Nickel (Ni)	Annual	nanogram/m3	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	Day Time	Night Time
IndustrialArea	75	70

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.

5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.

6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.
7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.
8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace of 15 T and the existing 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
4. The unit shall operate and maintain the air pollution control measures continuously and efficiently so as to ensure that the emission shall satisfy the AAQ/Emission standards prescribed by the Board.
5. The unit shall continue to develop and maintain adequate green belt in and around the premises.
6. The unit shall ensure that stacks are connected to CARE Centre, Guindy at all the times.
7. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel glass, porcelain plates/cups, cloth bag, jute bag etc.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.\

S RAGUPATHI Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:57:21 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - IX

CTO - WATER ACT

Category of the Industry :

ORANG
E

CONSENT ORDER NO. 2307155530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL/GMP/W/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director ,
M/s . KANISHK STEEL INDUSTRIES LIMITED
S.F No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt
OLD GUMMIDIPOONDI Village
Gummidipoondi Taluk
Tiruvallur District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,
Chennai-600 004.
Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent - NILL			
1.	Cooling Tower Bleed Off	19.0	Used as Cooling Water Make up in Rolling Mill

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1		1		
1.	pH		5.5 to 9		5.5 to 9		
2.	Temperature	oC	-		shall not exceed 5°C above the receiving water temperature		
3.	Particle size of Suspended solids	-	-		shall pass 850 micron IS sieve		
4.	Total Suspended Solids	mg/l	30		100		
5.	Total Dissolved solids (inorganic)	mg/l	-		2100		
6.	Oil & Grease	mg/l	-		10		
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20		30		
8.	Chemical Oxygen Demand	mg/l	-		250		
9.	Chloride (as Cl)	mg/l	-		1000		
10.	Sulphates (as SO4)	mg/l	-		1000		
11.	Total Residual Chlorine	mg/l	-		1		
12.	Ammonical Nitrogen (as N)	mg/l	-		50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-		100		
14.	Free Ammonia (as NH3)	mg/l	-		5		
15.	Arsenic (as As)	mg/l	-		0.2		
16.	Mercury (as Hg)	mg/l	-		0.01		
17.	Lead (as Pb)	mg/l	-		0.1		
18.	Cadmium(as Cd)	mg/l	-		2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-		0.1		
20.	Total Chromium (as Cr)	mg/l	-		2		
21.	Copper (as Cu)	mg/l	-		3		
22.	Zinc (as Zn)	mg/l	-		1		
23.	Selenium (as Se)	mg/l	-		0.05		
24.	Nickel (as Ni)	mg/l	-		3		
25.	Boron (as B)	mg/l	-		2		
26.	Percent Sodium	%	-		-		
27.	Residual Sodium Carbonate	mg/l	-		-		
28.	Cyanide (as CN)	mg/l	-		0.2		
29.	Fluoride (as F)	mg/l	-		2		
30.	Dissolved Phosphates(as P)	mg/l	-		5		
31.	Sulphide (as S)	mg/l	-		2		
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-		1		
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-		10-7		
35.	Radioactive materials b). Beta emitters	micro curie/ml	-		10-6		

36.	Fecal Coliform	MPN/100ml	-		-		

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
   a. Industrial Cooling, Spraying in mine pits or boiler feed.
   b. Domestic purpose.
   c. Process.

6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.

7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.

8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.

9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.

12. The occupier shall provide and maintain rain water harvesting facilities.

13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.

14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.

    i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.

    ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.

    iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.

    iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

    v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace and the existing old 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall obtain amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020 for retaining one coal fired reheating furnace of 15 T, to be used during emergency situations and furnish the same within a period of six months.
4. The unit shall operate the coal fired reheating furnace of 15 T only after obtaining amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
5. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
6. The unit shall operate and maintain the sewage treatment plant effectively and continuously so as to satisfy the standards prescribed by the Board
7. The unit shall utilize the treated sewage for gardening/ green belt development without any stagnation or ponding.
8. The unit shall ensure that the Cooling Tower Bleed Off of 19 KLD is used as Cooling Water Make up in Rolling Mill and ensure that and there is no discharge on land etc., under any circumstance
9. The unit shall ensure that no treated/untreated sewage shall gain access to the drain/water course at any point of time.
10. The unit shall dispose Non-Hazardous solid wastes then and there without accumulation of the same within the premises.
11. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The unit shall furnish the monthly reports on the quantity of Products manufactured with necessary supporting documents.
13. The unit shall comply with the E-Waste Management Rules, 2016. E-Waste as listed in schedule-I, generated by them shall be channelized through Collection Centre or dealer of authorized producer or dismantler or recycler or through the designated tack back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.
14. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises, Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
    a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
    b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form–4 before the end of the subsequent 30th June of every year (if applicable).
    c) Yearly Environmental Statement for the period from 1st April to 31st March in Form –V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.

21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.

22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.

23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - X

DISASTER MANAGEMENT PLAN

detailed design, applying recommended control strategies and implementing a Safety Management System

7.2.3 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector, and;
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage;
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

victims. This includes the search for the dead and injured and removal of debris and social care, the provision of temporary shelter to the homeless food, clothing and medical supplies, and the rapid re-establishment of essential services.

7.3.1 Objectives of Disaster Management Plan (DMP)

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it will be widely circulated and personnel training given through rehearsals/drills.
The Disaster Management Plan would reflect the probable, consequential severity of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on currently available and reliable information, incident data from internal and external sources and if necessary the reports of outside agencies. To tackle the consequences of a major emergency inside the factory or immediate vicinity of the factory, a planned emergency document is prepared, called the "Disaster Management Plan"

The objective of the Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area; and
- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the Emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

7.3.2 Specific Emergencies Anticipated

Fire consequences can be disastrous, since they involve huge quantities of fuel either stored or in dynamic inventory in pipelines or in nearby areas. Toxic releases can affect persons working around. Preliminary hazard Analysis has provided a basis for consequence estimation.

7.3.3 Emergency Organization

It is recommended to set up an Emergency Organization. A senior executive who has control over the affairs of the plant would be heading the Emergency Organization. He would be designated at Site Controller. Works Manager would be designated as the Incident Controller. In the case of stores, utilities, open areas, which are not under the control of the Production Heads, Senior Executive responsible for maintenance of utilities would be designated as Incident Controller. All the Incident Controllers would be reporting to the Site Controller.

Each Incident Controller, for himself, organizes a team responsible for controlling the incidence with the personnel under his control. Shift In-charge would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.

Emergency co-ordinators would be appointed who would undertake the responsibilities like fire fighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, Security In-charge, Personnel Department, Essential services personnel would be engaged. All these personnel would be designated as Key personnel.

In each shift, electrical supervisor, electricians and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/plant offices would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.3.3.1 Emergency Communication

Whoever notices an emergency situation such as fire, escalation of fire, leakage etc will inform his immediate superior and Emergency Control Center. A place nearer to the security office shall be identified as Emergency Control Center. The person on duty in the Emergency Control Center would appraise the Site Controller. Site Controller verifies the situation from the Incident Controller of that area or the Shift In-charge and takes a decision about an impending On Site Emergency. This would be communicated to all the Incident Controllers, Emergency Co-ordinators. Simultaneously, the emergency warning system would be activated on the instructions of the Site Controller.

7.3.4 Onsite Emergency Preparedness and Response for Accidents

7.3.4.1 Emergency Responsibilities

The responsibilities of the key personnel are appended below:

Site Controller:

On receiving information about emergency he would rush to Emergency Control Center (ECC) and take charge of ECC and the situation and;

- Assesses the magnitude of the situation on the advice of incident Controller and decides, Whether the affected area needs to be evacuated,
- Whether personnel who are at assembly points need to be evacuated,
- Declare Emergency and order for operation of emergency siren,
- Organizes announcement by public address system about location of emergency,
- Assesses which areas are likely to be affected, or need to be evacuated or need to be alerted,
- Maintains a continuous review of possible development and assesses the situation in consultation with Incident Controller and other Key Personnel as to whether shutting down the plant or any section of the plant is required and if evacuation of persons is required,
- Directs personnel for rescue, rehabilitation, transport, fire, brigade, medical and other designated mutual support systems locally available, for meeting emergencies.
- Controls evacuation of affected areas, if the situation is likely to go out of control or effects are likely to go beyond the premises of the factory, informs the District Emergency Authority, Police, Hospital and seeks their intervention and help,

- Informs the Inspector of Factories, Deputy Chief Inspector of Factories, TNPCB and other statutory authorities,
- Gives a public statement if necessary,
- Keeps record of chronological events and prepares an investigation report and preserve evidence,
- On completion of On Site Emergency and restoration of normalcy, declares all clear and orders for all clear warning.

Incident Controller:

- Assembles the incident control team.
- Directs operations within the affected areas with the priorities for safety to personnel minimize damage to the plant, property and environment and minimize the loss of materials.
- Directs the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency.
- Ensure that key personnel help is sought.
- Provides advice and information to the Fire and Security Officer and the Local Fire Services as and when they arrive.
- Ensures that all non-essential workers/staff of the affected areas evacuated to the appropriate assembly points, and the areas are searched for casualties.
- Has regard to the need for preservation of evidence so as to facilitate any inquiry into the causes and circumstances, which caused or escalated the emergency.
- Co-ordinates with emergency services at the site.
- Provides tools and safety equipment to the team members.
- Keeps in touch with the team and advice them regarding the method of control to be used.
- Keeps the Site Controller of Emergency informed of the progress being made

Emergency Coordinator - Rescue, Fire Fighting:

- Helps the incident Controller in containment of the emergency;
- Ensures fire pumps are in operating conditions and instructs pump house operator to be ready for any emergency with standby arrangement;
- Guides the fire fighting crew i.e. firemen, trained plant personnel and security staff;
- Organizes shifting of the fire fighting facilities to the emergency site, if required;
- Takes guidance of the Incident Controller for fire fighting as well as assesses the requirements of outside help;
- Arranges to control the traffic at the gate and the incident area;
- Directs the security staff to the incident site to take part in the emergency operations under his guidance and supervision;
- Evacuates the people in the plant or in the nearby areas as advised by Site Controller;
- Searches for casualties and arranges proper aid for them;
- Assembles search and evacuation team;
- Arranges for safety equipment for the members of this team;
- Decides which paths the evacuated workers should follow;
- Maintains law and order in the area, and if necessary seeks the help of police.

Emergency Coordinator-Medical, Mutual Aid, Rehabilitation, Transport and Communication:

- In the event of failure of electric supply and thereby internal telephone, sets up communication point and establishes contact with the ECC;
- Organizes medical treatment to the injured and if necessary will shift the injured to nearby hospitals;
- Mobilizes extra medical help from outside, if necessary;
- Keeps a list of qualified first aid providers of the factory and seek their assistance;
- Maintains first aid and medical emergency requirements;
- Makes sure that all safety equipment is made available to the emergency team;
- Assists Site Controller with necessary data and to coordinate the emergency activities;
- Assists Site Controller in updating emergency plan, organizing mock drills verification of inventory of emergency facilities and furnishing report to Site Controller;
- Maintains liaison with Civil Administration;
- Ensures availability of canteen facilities and maintenance of rehabilitation center;
- He will be in liaison with Site Controller/Incident Controller;
- Ensures transportation facility;
- Ensures availability of necessary cash for rescue/rehabilitation and emergency expenditure;
- Controls rehabilitation of affected areas on discontinuation of emergency;
- Ensures availability of diesel/petrol for transport vehicles engaged in emergency operation.

Emergency Coordinator - Essential Services:

- He would assist Site Controller and Incident Controller.
- Maintains essential services like Diesel Generator, Water, Fire Water, Compressed Air/Instrument Air, power supply for lighting.
- He would plan alternate facilities in the event of power failure, to maintain essential services such as lighting, refrigeration plant etc.
- He would organize separate electrical connections for all utilities and emergency services so that in the event of emergency or fires, essential services and utilities are not affected.
- Gives necessary instructions regarding emergency electrical supply, isolation of certain sections etc. to shift in-charge and electricians.
- Ensures availability of adequate quantities of protective equipment and other emergency materials, spares etc.

General Responsibilities of Employees during an Emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers if they are in-charge of process equipment should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

7.3.4.2 Emergency Facilities

Emergency Control Center (ECC):

For the time being, Office Block or a place nearer to the security office is identified as Emergency Control Center. It would have external Telephone, Fax, and Telex facility. All the Site Controller/ Incident Controller Officers, Senior Personnel would be located here. Also, it

would be an elevated place. The following information and equipment are to be provided at the Emergency Control Center (ECC).

- Intercom, telephone
- P and T telephone
- Safe contained breathing apparatus
- Fire suit/gas tight goggles/gloves/helmets
- Hand tools, wind direction/velocities indications
- Public address megaphone, hand bell, telephone directories
- (Internal P and T) factory layout, site plan
- Emergency lamp/torch light/batteries
- Plan indicating locations of hazard inventories, plant control room, sources of safety equipment, work road plan, assembly points, rescue location vulnerable zones, escape routes.
- Hazard chart
- Emergency shut-down procedures
- Nominal roll of employees
- List of key personnel, list of essential employees, list of Emergency Co-ordinators
- Duties of key personnel
- Address with telephone numbers and key personnel, emergency coordinator, essential employees.
- Important address and telephone numbers including Government agencies, neighbouring industries and sources of help, out side experts, chemical fact sheets population details around the factory.

Assembly Point:

Number of assembly points depending upon the plant location would be identified wherein employees who are not directly connected with the disaster management would be assembled for safety and rescue. Emergency breathing apparatus, minimum facilities like water etc. would be organized. In view of the size of plant, different locations are ear marked as assembly points. Depending upon the location of hazard, the assembly points are to be used.

Fire Fighting Facilities:

First Aid Fire fighting equipment suitable for emergency should be maintained in each section in the plant. This would be as per statutory requirements. However, fire hydrant line covering major areas would be laid. It would be maintained at 6- kg/cm^2 pressure. Fire alarms would be located in the bulk storage areas. Fire officer will be the commanding officer of fire fighting services.

Location of Wind Sock:

On the top of the Administration block and the top of each production blocks, windsocks shall be installed to indicate direction of wind for emergency escape.

Emergency Medical Facilities:

Stretchers, gas masks and general first aid materials for dealing with fire burns would be maintained in the medical center as well as in the emergency control room. Medical superintendent of the township will be the head of the casuality services ward. Private medical practitioners help would be also are sought. Government hospital would be approached for emergency help.

Apart from plant first aid facilities, external facilities would be augmented. Names of Medical Personnel, Medical facilities in the area would be prepared and updated. Necessary specific medicines for emergency treatment of Burns for Patients and for those affected by toxicity would be maintained. Breathing apparatus and other emergency medical equipment would be provided and maintained. The help of near by industrial management in this regard would be taken on mutual support basis.

Ambulance:

An ambulance with driver availability in all the shifts and an emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift, first aid personnel would be available.

7.3.4.3 Emergency Actions

Emergency Warning

Communication of emergency would be made familiar to the personnel inside the plant and people outside. An emergency warning system shall be established.

Emergency Shutdown

There are number of facilities which can be provided to help deal with hazardous conditions, when a tank is on fire. The suggested arrangements are:

1. Stop the production;
2. Dilute contents;
3. Remove heat;
4. Deluge with water; and
5. Transfer contents.

Whether a given method is appropriate depends on the particular case. Cessation of agitation may be the best action in some instances but not in others. Stopping of the feed may require the provision of by pass arrangements.

Methods of removing additional heat include removal through the normal cooling arrangements or use of an emergency cooling system. Cooling facilities, which use vaporing liquid, may be particularly effective, since a large increase in vaporization can be obtained by dropping pressure.

Evacuation of Personnel:

There could be more number of persons in the storage area and other areas in the vicinity. The area would have adequate number of exits and staircases. In the event of an emergency, unconnected personnel have to escape to assembly point. Operators have to take emergency shutdown procedure and escape. Time Office maintains a copy of deployment of employees in each shift, at ECC. If necessary, persons can be evacuated by rescue teams.

All Clear Signal:

Also, at the end of an emergency, after discussing with Incident Controllers and Emergency Co-ordinators, the Site Controller orders an all clear signal. When it becomes essential, the Site Controller communicates to the District Emergency Authority, Police, and Fire service personnel regarding help required or development of the situation into an Off-Site Emergency.

7.3.4.4 General

Employee Information:

During an emergency, employees would be warned by raising siren in specific pattern. Employees would be given training of escape routes, taking shelter, protecting from toxic effects. Employees would be provided with information related to fire hazards, antidotes and first aid measures. Those who would be designated as key personnel and essential employees should be given training to emergency response.

Public Information and Warning:

The industrial disaster effects related to this plant may mostly be confined to the plant area. The detailed risk analysis has indicated that the pool fire effects would not be felt outside. However, as an abundant precaution, the information related to chemicals in use would be furnished to District Emergency Authority for necessary dissemination to general public and for any use during an off site emergency. Factories of this size and nature are in existence in our state since long time.

Co-ordination with Local Authorities:

Keeping in view of the nature of emergency, two levels of coordination are proposed. In the case of an On Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency, local authorities help should be sought.

In the event of an emergency developing into an off site emergency, local authority and District emergency Authority (normally the Collector) would be appraised and under his supervision, the Off Site Disaster Management Plan would be exercised. For this purpose, the facilities that are available locally, i.e. medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered. Necessary rehearsals and training in the form of mock drills should be organized.

Mutual Aid:

Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc should be sought from the neighboring industrial management.

Mock Drills:

Emergency preparedness is an important step in planning of Industrial Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel should be trained in the operations. Co-ordination meeting with the line Department officials for preparedness and implementation, viability and conduct of Mock Drill/ training should be conducted along with Divisional or Taluk level of Tiruvallur District.

Important Information:

Once the Plant goes into stream, important information such as names and addresses of key personnel, essential employees, medical personnel, outside the plant, transporters address, address of those connected with Off Site Emergency such as Police, Local Authorities, Fire Services, District Emergency Authority should be prepared and maintained.

7.3.5 Off-Site Emergency Preparedness Plan

7.3.5.1 Introduction

Off-site emergency plan follows the on-site emergency plan. When the consequences of an emergency situation go beyond the plant boundaries, it becomes an off-site emergency. Off-site emergency is essentially the responsibility of the public administration. However, the factory management will provide the public administration with the technical information relating to the nature, quantum and probable consequences on the neighbouring population. The off-site plan in detail will be based on those events, which are most likely to occur, but other less likely events, which have severe consequence, will also be considered. Incidents which have very severe consequences yet have a small probability of occurrence should also be considered during the preparation of the plan. However, the key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan.

The roles of the various parties who will be involved in the implementation of an off-site plan are described below. Depending on local arrangements, the responsibility for the off-site plan should be either rest with the works management or, with the local authority. Either way, the plan should identify an emergency co-ordinating officer, who would take the overall command of the off-site activities. As with the on-site plan, an emergency control center should be setup within which the emergency co-ordinating officer can operate.

An early decision will be required in many cases on the advice to be given to people living "within range" of the accident - in particular whether they should be evacuated or told to go indoors. In the latter case, the decision can regularly be reviewed in the event of an escalation of the incident. Consideration of evacuation may include the following factors:

a. In the case of a major fire but without explosion risk (e.g. an oil storage tank), only houses close to the fire likely need to be evacuated, although a severe smoke hazard may require this to be reviewed periodically;

b. If a fire is escalating and in turn threatening a store of hazardous material, it might be necessary to evacuate people nearby, but only if there is time; if insufficient time exists, people should be advised to stay indoors and shield them from the fire.

This latter case particularly applies if the installation at risk could produce a fireball with very severe thermal radiation effects;

c. For release or potential release of toxic materials, limited evacuation may be appropriate down wind, if there is time. The decision would depend partly on the type of housing "at risk". Conventional housing of solid construction with windows closed offers substantial protection from the effects of a toxic cloud, while shanty house, which exist close to factories, offer little or no protection.

The major difference between releases of toxic and flammable materials is that toxic clouds are generally hazardous down to much lower concentrations and therefore hazardous over greater distances. Also, a toxic cloud drifting at, say 300 m per minute covers a large area of land very quickly.

Any consideration of evacuation should take this into account. Although the plan will have sufficient flexibility built in to cover the consequences of the range of accidents identified for the on-site plan, it will cover in some detail the handling of the emergency to a particular distance from each major hazard works.

7.3.5.2 Aspects Proposed to be considered in the Off-Site Emergency Plan

The main aspects, which should be included in the emergency plan, are:

- **Organization**

Details of command structure, warning systems, implementation procedures, emergency control centers. Names and appointments of incident controller, site main controller, their deputies and other key personnel.

- **Communications**

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

- **Specialized knowledge**

Details of specialist bodies, firms and people upon whom it may be necessary to call e.g. those with specialized chemical knowledge and laboratories.

- **Voluntary organizations**

Details of organizers, telephone numbers, resources etc.

- **Chemical information**

Details of the hazardous substances stored or procedure on each site and a summary of the risks associated with them.

- **Meteorological information**

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

- **Humanitarian arrangements**

Transport, evacuation centers, emergency feeding treatment of injured, first aid, ambulances and temporary mortuaries.

- **Public information**

Arrangements for dealing with the media press office and informing relatives, etc.

- **Assessment of emergency plan**

Arrangements for: (a) Collecting information on the causes of the emergency; (b) Reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.3.5.3 Role of the Emergency Co-ordinating Officer

The various emergency services should be co-ordinated by an Emergency Co-ordinating Officer (ECO), who will be designated by the district collector. The ECO should liaison closely with the site main controller.

The Emergency Operation Center (EOC) functioning at each Taluk office Collectorate, round the clock. Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control should be passed to a senior local authority administrator or even an administrator appointed by the central or state government.

7.3.5.4 Role of the Local Authority

The duty to prepare the off-site plan lies with the local authorities. The Emergency Planning Officer (EPO) appointed should carry out his duty in preparing for a whole range of different emergencies within the local authority area. The EPO should liaison with the works, to obtain the information to provide the basis for the plan. This liaison should ensure that the plan is continually kept upto date.

It will be the responsibility of the EPO to ensure that all those organizations, which will be involved in off site handling of the emergency situation, know of their role and are able to accept it by having for example, sufficient staff and appropriate equipment to cover their particular responsibilities. Rehearsals for off-site plans should be organized by the EPO.

7.3.5.5 Role of Police

Formal duties of the police during an emergency include protecting life and property and controlling traffic movements. Their functions should include controlling bystanders, evacuating the public, identifying the dead and dealing with casualties, and informing relatives of death or injury.

7.3.5.6 Role of Fire Authorities

The control of a fire should be normally the responsibility of the senior fire brigade officer who would take over the handling of the fire from the site incident controller on arrival at the site. The senior fire brigade officer should also have a similar responsibility for other events, such as explosions and toxic release.

Fire authorities in the region should be appraised about the location of all stores of flammable materials, water and foam supply points, and fire-fighting equipment. They should be involved in on-site emergency rehearsals both as participants, and on occasion, as observers of exercises involving only site personnel.

7.3.5.7 Role of Health Authorities

Health authorities, including doctors, surgeons, hospitals, ambulances, and so on, should have a vital part to play following a major accident, and they should form an integral part of the emergency plan. For major fires, injuries should be the result of the effects of thermal radiation to a varying degree, and the knowledge and experience to handle this in all but extreme cases may be generally available in most hospitals. For major toxic releases, the effects vary according to the chemical in question, and the health authorities should be apprised about the likely toxic releases from the plant, which will enable them in dealing with the aftermath of a toxic release with treatment appropriate to such casualties. Major off-site incidents are likely to require medical equipment and facilities additional to those available locally, and a medical "mutual aid" scheme should exist to enable the assistance of neighbouring authorities to be obtained in the event of an emergency.

7.3.5.8 Role of Government Safety Authority

This will be the factory inspectorate available in the region. Inspectors are likely to satisfy themselves that the organization responsible for producing the off-site plan has made adequate arrangements for handling emergencies of all types including major emergencies. They may wish to see well-documented procedures and evidence of exercise undertaken to test the plan.

In the event of an accident, local arrangements regarding the role of the factory inspector will apply. These may vary from keeping a watching brief to a close involvement in advising on operations in case involvement in advising on operations. In cases where toxic gases may have been released, the factory inspectorate may be the only external agency with equipment and resources to carry out tests.

7.4 Occupational Health and Safety

Large industries, in general where numerous activities are involved during construction, erection, testing, commissioning, operation and maintenance, materials and machines are the basic inputs. Along with the boons, the industrialization generally brings several problems like occupational health and safety.

The industrial planner therefore has to properly plan and take the steps to minimize the impacts of industrialization and to ensure appropriate occupational health, safety including fire plans. All these activities again may be classified under construction and erection & operation and maintenance. The proposed safety plan is given below:

ANNEXURE - XI

FORM – V

ENVIRONMENTAL STATEMENT

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To

The District Environmental Engineer,

Tamil Nadu Pollution Control Board

Gummmidipoondi

Date:10.12.2024

Dear Sir,

Sub: Submission of Form V under Rule 14

With reference to the above, we are enclosing the Environmental Statement for the financial year ending 31st March -2024 under Rule-14

Encl: Statement Form V for Kanishk Steel Industries Limited

Kindly acknowledge receipt of the same

Thanking you,

Yours faithfully

for Kanishk Steel Industries Limited

Director

(Ashok Bohra)

16 DEC 2024

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART –A

1. Name and address of the owner/occupier of the industry/operation or process	Mr.Vishal Keyal: Chairman & Managing Director Mr.Ashok Bohra: Whole time Director
2.Industry category: Primary (STC Code) Secondary (STC Code)	
3.(a) Production Capacity - Units	A –MS Ingots-36000 Tons/Annum
3.(b) Production Capacity - Units	B-Rerolled Products-54000 Tons/Annum
4.Year of Establishment	1991
5.Date of the last environmental statement submitted	

PART–B

Water and Raw Material Consumption

1. Water Consumption 3577 KL/Yr.

Process	Actual Require -Ment:-	2.0 KLD	Actual Useage as per supply:	240 KL/Yr
Cooling		21.0 KLD		2520 KL/Yr
Domestic		6.8 KLD		817 KL/Yr
			TOTAL:	3577 KL/Yr

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2022-2023	During the current financial year 2023-2024
1	MS Ingots	1.739 Litre/ Ton [Product output-82245 Tons Total Pr.Water 143 KL]	2.598 Litre/ Ton [Product output-92378 Tons Total Pr.Water 240 KL]
2	Rerolled Products		

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

(2) Raw Material Consumption

Sl. No	Name of raw materials	Name of Products	Consumption of raw material per unit .	
			During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	MS Scrap	Ms Ingots	**1.232 Tons**	**1.232 Tons**
2	MS Billets	Rerolled Products	**1.097 Tons**	**1.117 Tons**

"Industries may use codes if disclosing details of raw materials would violate contractual obligation, otherwise all industries have to name the raw materials used.

Sl. N	Pollution	Quantity of pollutants discharged (mass/ day)		Concentration of pollutants in discharges (Total /Volume)		Percentage of variatio from prescribed
1	Water	Nil		Nil		Nil
2	Air	**Pollutants concentration (u /g //m3**				Within standard Limits
		PM 10	PM 2.5	SO 2	NO 2	
		76.98	39.25	16.34	18.88	

PART -D

Hazardous Wastes

(as specified under Hazardous Waste(Management,Handling & Transboundary Movement Rules,2008)

Sl. No	Hazardous Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	From process	NIL	NIL
2	From pollution control facilities	NIL	NIL

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART -E

Solid Wastes

Sl. No	Solid Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
(a)	From process (i). Slag (ii) Mill scale	**5329 Tons** **1902 Tons**	**6228 Tons** **2433 Tons**
(b)	From pollution control facilities	**Nil**	**Nil**
(c)	(1). Quantity recycled within the limit-Mill scale	**1217 Tons**	**1826 Tons**
(d)	Mill scale disposed to re-melting	**1246 Tons**	**1855 Tons**
(e)	Slag disposed for crushing and land filling	**862 Tons**	**NIL**

PART –F

Please specify the characterization(in terms of composition and quantum)of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of waste

Category of Waste	Characteristics	Quantity (M.T)	Disposal Practice
Solid Waste -. Mill scale -. Slag	Captive and Sales ('23- ;24)- 2454 Tons Disposal to processors and also sent for land-filling ('23- ;24)- Nil		
Hazardous Waste	NA	NA	NA

PART –G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

1	Tree Plantation	Invisible benefits to the environment
2	STP water generation	water treated and used for watering plants

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

Total annual expenditure incurred towards environmental protection:

1. Material purchase only: Rs.1,07,84,584/-
2. Erection , Labour charge, Civil Cost: Rs. 18,80,941/-

Total: Rs.1,26,65,525/-

So the visible impact of the pollution abatement measures and environment protection shall be Rs.157.70 per ton of steel apart from invisible benefits due to trees (145.68 L /92377 MT)

PART–H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution:-

1	Continuous planting of trees as and when replacement necessary;
2	Bag filters etc installed from February 2024
3	Shed enclosing to reduce dust while unloading;

PART-I

Any other particulars for improving the quality of environment

1	We are providing safe drinking water from our plant to Ganganthotti village
2	We are regularly sprinkling water in an around the units, to suppress dust.
3	We also reimburse the cost of LPG cylinder refilling cost to the employees to avoid coal burning.
4	Regular monitoring of Air Quality by online system.
5	We have already done the tree plantation job and this is a continuous process in and around company areas and Gummidipoondi SIPCOT Office area

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings,	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT'office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date- Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3.475/-	
4	Tamarai eri deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided:		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided:		Rs. 30,000/-	
	TOTAL		Rs.17,42,301/	

7	CSR Activity Expenses done viz Amount sponsored for"Clean Ganga Fund during 2021-'22	Rs. 6,98,200/-
8	CSR Activity Expenses done during 2022-'23	Rs.10,22,000/-
9	CSR Activity Expenses done during 2023-'24	Rs.19,02,000/-

Name of Unit–

M/s Kanishk Steel Industries Ltd.,Gummidipoondi. TiruvallurDt.T.Nadu

For Kanishk Steel Industries Limited

(Ashok Bohra)

Director

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March - 2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings.	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT'office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date- Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3 475/-	
4	Tamarai eri deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided:		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided:		Rs. 30,000/-	
	TOTAL		Rs.17,42,301/	

7	CSR Activity Expenses done viz Amount sponsored for "Clean Ganga Fund during 2021-'22	Rs. 6,98,200/-
8	CSR Activity Expenses done during 2022-'23	Rs.10,22,000/-
9	CSR Activity Expenses done during 2023-'24	Rs.19,02,000/-

Name of Unit–

M/s Kanishk Steel Industries Ltd ,Gummidipoondi, TiruvallurDt.T.Nadu

For Kanishk Steel Industries Limited

Director

ENCLOSURE - 3

Copy of Checklist with its Annexures

CHECK LIST

SI.NO.	CONDITIONS	COMPLAINCE STATUS
1	Enclose copy of all Environmental Clearance	Environmental Clearance received Enclosed are attached as Annexure - I
2	Enclosed copy of first Consent to Establish and latest consent to operate	Consent to Establish (CTE) attached as Annexure –II A and latest consent to operate (CTO) are attached as Annexure –II B
3	Date/Month of Commencement of Activity	Activity Commencement on date 01/02/2024
4	Enclose KML file of the site	KML file of the site are attached as Annexure III
5	Green Belt development plan with Following details: 1.Layout showing existing and proposed plantation area 2.Types of trees species existing and proposed photographs of existing trees/plantations. 3.Aprroximate budget earmarked for green belt development under Environment Management Plan. 4. An undertaking that the proposed plantation will be carried out.	1. Layout showing existing plantation area are attached as Annexure IV A 2. Types of trees species existing and photographs of existing trees/plantations are attached as Annexure IV B 3. Budget earmarked for green belt development under Environment Management Plan are attached as Annexure IV C 4. We have complied with 33.33% of green belt area and Numbers of trees as per approved EC.

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

SI.NO.	CONDITIONS	COMPLAINCE STATUS
6	Copy of latest Monitoring reports on Ambient Air, Soil, Ground Water, Noise, DG sets etc.	Monitoring test reports on Ambient Air, Soil, Ground Water, Noise are attached as Annexure V
7	Amount earmarked for Environmental Management	Environmental Management are attached as Annexure VI
8	Number of Six monthly compliance reports submitted to the regional office to the Ministry along with acknowledgment and copy of latest compliance report.	Six monthly compliance reports of period October 2023 to March 2024 and Six monthly compliance reports of period April 2024 to September 2024 are submitted to the regional office to the Ministry along with acknowledgment and copy of latest compliance report are attached as Annexure VII
9	Details of Show cause Notice/Direction from Pollution Control Board, if any	NO
10	Details of pending Court cases, if any	NO
11	Copy of news paper advertisement about grant of EC	Copy of News paper advertisement about grant of EC are attached as Annexure VIII
12	Website address where copy of EC, Half yearly compliance report (HYR) and Environmental statement are uploaded	Uploaded at www.kanishksteels.in

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

ANNEXURE - I
ENVIRONMENTAL CLEARANCE

Thiru.K.V.GIRIDHAR, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No. 6430/EC/ 3(a)/ 78/2020 dated:10.11.2020

To

M/s. Kanishk Steel Industries Ltd
S.F.No.B27, (N.M.S) , SIPCOT Industrial Complex,
Peddikuppam Village,
Old Gummidipoondi Taluk,
Tiruvallur District.

Sir,

Sub: SEIAA-TN– Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance - Category B1 & Schedule item lo. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) - Issued – Regarding.

Ref:
1. Terms of Reference issued vide SEIAA Lr. No.SEIAA/ F.No.6430/2017/ 3(a)/ KSI/TOR-292/2017, Dated: 15.11.2017.
2. EC Application along with EIA Report date 29.08.2019.
3. Minutes of Public hearing from TNPCB dated: 09.07.2019.
4. Minutes of the 140th Meeting of SEAC held on 10.12.2019

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

5. Minutes of the 173rd Meeting of SEAC held on 10.09.2020.
6 Minutes of the 402nd Meeting of SEIAA held on 07.10.2020.
7. Minutes of the 404th Meeting of SEIAA held on 14.10.2020.

This has reference to your Environmental Clearance application dated 06.12.2018 applied to SEIAA-TN and subsequent communication on the above mentioned subject by M/s. Kanishk Steel Industries Ltd for the Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu under Item No. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) & Category 'B1'of the Schedule to the EIA Notification, 2006.

1. The project proponent M/s. Kanishk Steel Industries Ltd applied seeking Terms of References on 15.11.2017 to SEIAA for Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.
2. Terms of Reference (ToR) was issued vide SEIAA Letter No:SEIAA-TN/F.No.6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017.
3. Based on the ToR issued vide SEIAA , the proponent prepared the EIA report and submitted the same to SEIAA-TN on 29.08.2019.
4. The proposal (EIA report) was placed in the 173rd meeting of SEAC held on 10.09.2020. The SEAC decided to recommend the proposal for the grant of Environmental Clearance to SEIAA – TN subject to certain conditions.
5. The subject was placed before 404th meeting of SEIAA held on 14.10.2020. SEIAA after careful consideration decided to issue Environmental Clearance subject to terms and conditions stipulated under the provisions of Environment Impact Assessment

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1	(i)	Name of the Project:	i) Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited.
	(ii)	Date of Application submission to SEIAA:	ii) EC Application along with the EIA Report Dated:29.08.2019.
2	Name of Sector:Schedule No(in the EIA Notification,2006)		Schedule S.No. 3(a) of Category "B1" – Metallurgical Industries (Ferrous & Non - Ferrous)
3.	New Project/ Expansion		Expansion Project
4	Name of the Applicant/Project Proponent		M/s. Kanishk Steel Industries Limited.
5	(i)	Project	Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamilnadu.
	(ii)	Co-ordinates (lat-long) of all four corners of the site	S.No / Latitude / Longtitude: 1. 13°25'.079"N 80° 7'.154"E; 2. 13°25'.069"N 80° 7'.235"E; 3. 13°24'.971"N 80° 7'.229"E; 4. 13°24'.972"N 80° 7'.137"E
	(iii)	Whether any GO attracted	No.

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<table>
<tr><td>6</td><td>(i)Area of the Site(in Sq.m)</td><td>3.015 Ha (7.45 acres)</td></tr>
<tr><td></td><td>(ii)Land use are(in Sq.m)</td><td>
<table>
<tr><th>Description</th><th>Area (Sq.M)</th><th>Percentage (%)</th></tr>
<tr><td>Factory shed area</td><td>0.9</td><td>29.85</td></tr>
<tr><td>Scrap area</td><td>0.55</td><td>18.24</td></tr>
<tr><td>Product storage area</td><td>0.15</td><td>4.98</td></tr>
<tr><td>Greenbelt Development</td><td>1</td><td>33.17</td></tr>
<tr><td>Road</td><td>0.37</td><td>12.27</td></tr>
<tr><td>Open space area</td><td>0</td><td>0.00</td></tr>
<tr><td>Solid waste storage area</td><td>0.045</td><td>1.49</td></tr>
<tr><td>Total area</td><td>3.015</td><td>100</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>Land use Classification as per Record</td><td>Industrial Land use Zone (SIPCOT, Gummidipoondi)</td></tr>
<tr><td>8</td><td>TOR issued? (If yes then specify the details)</td><td>Yes. Terms of Reference (ToR) issued vide SEIAA Lr. No. SEIAA/F.No.6430/2017/3(a)/KSI/TOR-292/2017, Dated: 15.11.2017 & Dated 09.07.2019 with Public Hearing.</td></tr>
<tr><td>9</td><td>Waterboding within 10km radius</td><td>The project site is located within 10km , Thamari Eri – 0.4km, Murugan pond – 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond – 1.7km (south).</td></tr>
<tr><td>10</td><td>Distance from Protected areas /Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.</td><td>The prior clearance from Forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife if required.</td></tr>
</table>

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11 | Production Details

Sr. No	Products	Quantity (TPA)	
		Existing	After Expansion
I	*Main Products*		
1	Re-rolled products/ Structurals	54,000	76,000
2	MS Ingots	6,000	-
II	By products		
1	MIS Rolls	2,160	N/A
III	Intermediate Products		
1	MS Ingots	36,000	-
2	MS Billets	-	83,000

List of Raw Materials & Source

S. No	Name of Raw Materials	Sources of Raw materials	Number of Trucks/Day	Mode of Transport
	Steel Melting Unit			
1	MS Scrap	96,000	Sweden, Malaysia, UK, New Zealand, Gummidipoondi	By ship followed by road transport
2	Sponge iron	4,800	Local suppliers from Gummidipoondi	By road through covered trucks
3	Silicon Manganese	1152	Andhra Pradesh	By road through covered trucks
4	Ferro Manganese	48	Local suppliers from Gummidipoondi	By road through covered trucks
5	Aluminium	14	Andhra Pradesh	By road through covered trucks

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<table>
<tr><td>14</td><td>Man-power Requirement</td><td>350 Employees</td></tr>
<tr><td>15</td><td>Total Water Requirement -45.25 KLD</td><td>Source of water – SIPCOT, Gummidipoondi
<table>
<tr><th>Particulars</th><th>Water Requirement (KLD)</th></tr>
<tr><td>Domestic</td><td>8.75</td></tr>
<tr><td>Machinery Cooling</td><td>33</td></tr>
<tr><td>Scrubber make-up</td><td>3.5</td></tr>
<tr><td>Total water requirement</td><td>45.25</td></tr>
</table></td></tr>
<tr><td>16</td><td>Sewage generation and treatment</td><td>The domestic sewage (8.75 KLD) generated from the proposed expansion project will be treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.5 KLD from the STP will be used for green belt development. The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 18.8 KLD will be re- circulated for the processes.
The scrubber effluent of 3.5 KLD will be treated in the existing Solar Evaporation Pan.
<table>
<tr><th rowspan="2">Sr. No</th><th rowspan="2">Description</th><th colspan="2">Quantity in KLD</th><th rowspan="2">Treatment</th></tr>
<tr><th>Existing</th><th>After Expansion</th></tr>
<tr><td>1</td><td>Sewage</td><td>5.5</td><td>7.9</td><td>Existing STP 10 KLD</td></tr>
<tr><td>2</td><td>Blow down</td><td>11.0</td><td>19.0</td><td>Cooling tower and recycled to back to process</td></tr>
<tr><td>3</td><td>Scrubber bleed</td><td>1.40</td><td>2.45</td><td>Solar Evaporation Pan</td></tr>
</table></td></tr>
<tr><td>17</td><td>Hazardous waste Management</td><td>a. Solar Pan Residue – 0.04 (Collected and Transported top CTSDF, Gummidipoondi)
b. Oil bearing cotton waste - 0.3 MT/year (Collected and Transported top CTSDF, Gummidipoondi)</td></tr>
</table>

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18	Other Solid waste	**Non Hazardous**

S.No	Solid Waste	Quantity (TPA)	Treatment of Disposal
1	Furnace slag	12,700	Sold out to contractors
2	CCM Scale	510	Sold out to contractors
3	Returnable scrap	5,572	Remelted in induction furnace
4	Runner and riser	-	Remelted in induction furnace
5	Mill scale	1,600	Sold out to contractors
6	Cobbles	830	Remelted in induction furnace
7	End cuttings/Misrolls	4,570	Remelted in induction furnace
8	Ash	-	Sold to ash bricks manufactures
9	STP Sludge	1.34	Dried and used as manure for greenbelt
10	Municipal waste	28	Will be collected by Civic bodies

19	Power requirement	

Particulars	Usage	Existing	After Expansion	
Power requirement *Source:* TANGEDCO	Induction furnace, CCM, Rolling Mill, Other infrastructure usage	5.9 MVA	11.9 MVA	
Backup Facility				
DG Set	Lightings, Melting machineries	1 x 250 KVA	1 x 250 KVA	1 x 500 KVA
Fuel				
Low Sulphur – High speed Diesel *Source:* Local bunks	Diesel Generator	80 Lit/hr	80 Lit/hr	160 Lit/hr
Thermal coal *Source:* Indonesia	Reheating furnace		- NIL	

20	Storm Water Management	Storm water drains will be provided along the factory to ensure that this will be minimizing runoff of the contaminated water to the land surrounding the site.

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23	Rain Water Harvesting	9 Nos. of percolation pits will be constructed along the periphery of the plant for ground water recharge from rain water.
24	Green Belt Development	Green belt area – 1336Sq.m (33%)
25	Project cost	Rs. 4.0 Crores
26	EMP Cost(O&M)	Capital Cost: Rs.45.0 Lakhs Recurring Cost: Rs.7.0 Lakhs per annum.

Affidavit

The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that

We hereby propose and promise to the following developments and works at Gummidipoondi near our Factory;

1. Drinking – water provision at Ganganthotty Village by installing 2 heavy duty hand pumps including bore drilling and platform; Cost of 2 Numbers @ Rs.70,000/- each Rs. 1,40,000/-
2. Providing retaining walls to Government Elementary School at Ma Po Si Nagar, Gummidipoondi for a length of 2 Meters with 1.8 Meters wioth 1.8 Metre Height; Cost of construction including materials: Rs.3,60,000/-;
3. Provision of Toilets for the same school;
   2 Number Toilets @ Rs.60,000/- each Rs.1,20,000/-;
4. Provision of 3 Number Toilets at Ganganthotty Village @ Rs.75,000/-, Rs.2,25,000/-;

The total cost works out to Rs.8,45,000/- in all.

Appraisal by SEAC:-

The project activity is of Category "B1" and comes under S.No.3 (a) in the Schedule of EIA Notification, 2006. The Proposal was appraised by the State Level Expert Appraisal Committee in the 96th meeting held on 31.10.2017, as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 and on the basis of the mandatory documents enclosed with the application. TOR was prescribed by the SEAC for EIA studies including Public consultation. Public consultation was held on 31.10.2018. Subsequently the proposal was

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appraised by the SEAC in the 173th SEAC Meeting held on 10.09.2020. Based on the presentation made by the proponent and the documents furnished, after detail deliberation, the SEAC decided to recommend the proposal for grant of Environmental Clearance to SEIAA subject to the following conditions in addition to normal conditions:

1. 'Consent for Establishment" shall be obtained fom the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
2. All the roads shall be tarred and water sprinkling shall be ensured to control dust emission from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage areas shall be completely covered. Dust extraction system shall be provided to storage area shall be completely covered. Dust extraction system shall be provided to storage, transfer points and material handling areas. Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines.
3. The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/MoEF& CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.
4. Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the MoEF&CC and regularly monitored and reports should be submitted to SEIAA-TN, CPCB and TNPCB. Guidelines / Code of Practice issued by the CPCB shall be followed.
5. The scrubber effluent from wet scrubbers shall be evaporated in elevated Solar Evaporation Pan of adequate sizes. No wastewater shall be discharged outside the Plant premises and 'Zero' discharge shall be strictly adopted as proposed.
6. The proponent shall continuously operate the Sewage treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.
7. Slag shall be subject to Toxic Chemical Leach ability Potential (ICLP) test before using for further beneficial use and shall be used only when found nonhazardous.

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8. All the solid wastes like slag and SEP residue shall be stored separately at designated place only. Solar Evaporation Pan residue shall be disposed of in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules. 2016
9. Proper housekeeping shall be ensured and all the raw materials and products shall be stored at designated places.
10. The Project proponent shall provide adequate safety and ventilation arrangements in the furnace area.
11. A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures who should report directly to the top Executive of the plant premises.
12. Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement. The locations of ambient air quality monitoring stations shall be decided in consultation with the Tamil Nadu Pollution Control Board and it shall be ensured that maximum numbers of stations to be installed in the up wind direction and same shall be connected to CARE AIR centre in TNPCB for online monitoring.
13. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed CPCB/MoEF&CC.
14. The Proponent shall provide and maintain the Green belt at least 33 % area as per the CPCB Guidelines and the proponent shall develop more Green belt continuously.
15. The Proponent shall furnish an undertaking that they will abide by the conditions by the conditions / recommendations mentioned in the EMP report furnished by them.

Discussion by SEIAA and the Remarks:-

The proposal was placed before the SEIAA in its 404th Meeting held on 14.10.2020. After detailed discussion the Authority decided to accept the recommendations of SEAC and

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decided to grant Environmental Clearance subject to the conditions as recommended by the SEAC and subject to General conditions in addition to normal conditions.

1. The EMP Cost shall be deposited in a nationalized bank by opening separate account and head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.
2. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
3. A detailed post-COVID health management plan for workers as per ICMR and MHA guidelines or the State Govt. guideline may be followed and report shall be furnished.
4. If there is any change in the production or land area application for amendment has to be submitted to SEIAA for further approval.

As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.

Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions

Statutory compliance:

i) The green belt developed should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

ii) The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.

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iii) It is necessary to be carried out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.

iv) It is recommended to prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.

v) As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.

vi) The proponent shall strictly follows the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.

vii) Necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.

viii) The proponent shall continuously operate and maintain the Air-pollution control measures to be provided

ix) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous wastes are being kept.

x) The sewage generated from the unit shall be treated and dispose through septic tank and soak pit arrangement.

xi) The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.

xii) The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.

xiii) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

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xiv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

xv) The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)

xvi) The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.

xvii) The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

xviii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

Air quality monitoring and preservation:

i) The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii) The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.

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iii) The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and PM_{25} in reference to PM emission, and SO_2 and NO_x in reference to SO_2 and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.

iv) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

v) Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

vi) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

vii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16thNovember, 2009 shall be complied with.

Water quality monitoring and preservation:

i) The project proponent shall provide online **continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)**

ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).

iii) The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

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iv) Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

v) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

vii) The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

Noise monitoring and prevention:

i) Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

ii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

iii) The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

Safety, Public hearing and Human health issues:

i) Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

iii) The project proponent shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iv) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all

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employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

v) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

vi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

Corporate Environment Responsibility:

i) As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.

ii) The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.

iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by

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competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

v) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

Waste management:

i) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

ii) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

iii) The company shall undertake waste minimization measures as below:-

a) Metering and control of quantities of active ingredients to minimize waste.

b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.

c) Use of automated filling to minimize spillage.

d) Use of Close Feed system into batch reactors.

e) Venting equipment through vapour recovery system.

f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

SPECIFIC CONDITIONS

1. It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.
2. "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.

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3. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
4. The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
5. Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational –health standards and ambient air quality standards.
6. The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
7. Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
8. The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
9. The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
10. The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
11. The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
12. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016 as amended.
13. The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.

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14. The industry shall conduct air sampling at least once in six months for the general core parameters (PM_{10}, $PM_{2.5}$, SO_x, NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
15. Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
16. A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
17. The Green belt area already developed within the project area shall be properly maintained.
18. The green belt of 3-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
19. The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
20. The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
21. The energy sources for lighting purposes shall preferably be LED based.
22. The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
23. Risk cum disaster management plan should be in placed in the industry premises at all time.
24. Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

25. The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
26. The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
27. All the assurances given in EIA and EMP shall be adhered strictly.
28. Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
29. Sufficient funds should be provided for Disaster management.
30. The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
31. The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
32. The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.
33. The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
34. If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
35. The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

36. The EMP cost of Rs.45 lakhs for capital cost and recurring cost cost Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
37. There should be no threat to Bio diversity due to the operation of the industry.
38. The Project Proponent has to provide rain water harvesting collection tank of adequate capacity in order to recover and reuse the rain water during normal rains.
39. The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
40. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
41. The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.
42. The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
43. The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.

SEIAA

General Conditions:

1. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA,TN.
3. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished t the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
4. Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY - TN
10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

5. The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office **within six months**.
6. The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
7. The Project proponent has to spend the CER fund Rs. 8.45 Lakhs (2% of the project cost for the various activities as per MoEF & CC OM dated: 1.05.2018.
8. CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.
9. It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
10. Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.
11. An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.
12. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
13. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

14. The Proponent shall furnish an undertaking that they will abide by the condition by the conditions / recommendations mentioned in the EMP report furnished by them'
15. The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
16. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA,TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of the SEIAA,TN at parivesh.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office of the MoEF at Bengaluru.
17. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.
18. The Environmental Statement for each financial year ending 31st March in Form-V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.
19. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

displayed at a convenient location near the main gate of the company in the public domain.

20. Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA,TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
21. Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.
22. The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air/emission standards prescribed by the CPCB/MoEF&CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.
23. The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose additional environmental conditions or modify the existing ones, if necessary.
24. The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.
25. Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
26. In case of any deviation or alteration in the project proposed from those submitted to this SEIAA,TN for clearance, a fresh reference should be made to the SEIAA,TN to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
27. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling &Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

10 NOV 2020

MEMBER SECRETARY
SEIAA-TN

28. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

MEMBER SECRETARY
SEIAA-TN

Copy to:-

1. The Principal Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai – 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The ACCF(C), Regional Office of MoEF & CC, 34, HEPC Building, I & 2 nd Floor, Saidapet, Anna Arul Garden Road, Nungambakkam, Chennai - 600 034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Tiruvallur District.
7. Stock File.

10 NOV 2020

ANNEXURE - II A

CONSENT TO ESTABLISH
AIR ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206240023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987 (Central Act, 14 of 1981)-Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to

The Director,
M/s . KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027** , or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:02 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,

Chennai-600 004.,

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to establish for Expansion is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T (existing)	Bag Filters with stack	32	20664
2	Induction Furnace 12T (proposed)	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3 **Special Additional Conditions:**

i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4 **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
3. The unit shall operate and maintain the Air Pollution Control measures attached to existing induction furnace & DG sets efficiently and continuously so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
4. The unit shall conduct AAQ/SM/ANL through TNPC Board lab periodically and furnish ROA to the Board.
5. The unit shall provide Bag filter with stack of height 32m as Air pollution control measures to the proposed Induction Furnaces 12 T so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
6. The unit shall adhere the National Ambient Air Quality / Stack / Ambient Noise Level standards prescribed by the Board from time to time.
7. The unit shall provide Online Continuous Emission Monitoring System (OCEMS) in the stacks of induction furnaces for monitoring emission parameters SPM, SOx, NOx, and the same shall be connected with Care Air Centre, TNPCB, Chennai prior to the commissioning of the expansion activity.
8. The unit shall meet the particulate matter standards of 150mg/NM3 for emission from induction furnace.
9. The unit shall continue to develop green belt to an extent of 33% of the total extent of land at rate of 400 trees/hectare.

RAMASAMY RAJAMANICKAM

Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:59 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM Digitally signed by RAMASAMY RAJAMANICKAM Date: 2022.04.22 21:48:52 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - II A

CONSENT TO ESTABLISH
WATER ACT

Category of the Industry :

ORANG
E

CONSENT ORDER NO. 2206140023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 25 of the Water(Prevention and control of Pollution)Act,1974 , as amended in 1988 (Central Act 6 of 1974) –Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 53 of 1988) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Director,
M/s. KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY
RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,
Chennai-600 004.,
Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	**Sewage Treatment Plant:**		
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	STP	1	10KL/day.
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Collection tank	1	6.0x3.0x3.0
2.	Aeration tank	1	1.5 m x 1.5 m x 3.0
3.	Settling tank	1	1.5 m x 1.5 m x 2.5
4.	FILTER FEED TANK	1	1000 L Sintex
5.	PRESSURE SAND FILTER	1	0.300 dia x 1.1 m ht
6.	Activated Carbon Tank	1	0.250 dia x 0.9 m ht
7.	Sludge drying bed	2	1.0x1.0x1.50
b	**Effluent Treatment Plant:**		
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Solar Evaporation Pan	1	2.5m x 2.0m x 1.5 m
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

3. This consent to establish for Expansion is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent			
1.	Trade Effluent -1	19.0	Recycling to machine cooling
2.	Trade Effluent -2	2.45	Solar Evaporation Pans

4. **Special Additional Conditions:**

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

5. **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall furnish an undertaking in Rs.100 stamp paper that "it will abide by the outcome of application submitted for NOC before the National Bird Sanctuary Board" within 15 days to TNPCB.
3. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
4. The unit shall operate and maintain the existing Sewage Treatment Plant (STP) efficiently and continuously for treatment of sewage so as to bring the quality of treated sewage to satisfy the discharge standards prescribed by the Board at all times. The treated sewage shall be utilized for gardening/green belt development within the premises.
5. The unit shall provide elevated Solar Evaporation Pan (SEP) of adequate surface area for the disposal of trade effluent arising from the wet scrubber bleed off by evaporation as proposed.
6. The unit shall provide EMFMs in the fresh water consumption, inlet & outlet of STP and line of trade effluent (Scrubber bleed off) to SEP.
7. The solid wastes such as MS Scale from concast machine, Mill scale & furnace slag shall be collected properly and sent for beneficial use without any accumulation within the premises. Records of transport & disposal in this regard shall be maintained
8. The unit shall collect the end cut billets properly and reuse the same again the process.
9. The unit shall utilize the STP sludge as manure for green development inside the premises.
10. The unit shall submit the Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.
11. The unit shall not use 'single use and throwaway plastic items' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - II B
CTO - AIR ACT

Category of the Industry :

ORANG E

CONSENT ORDER NO. 2307255530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL//GMP/A/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director

M/s . KANISHK STEEL INDUSTRIES LIMITED

S.F.No. Plot No. B-27-[N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt

OLD GUMMIDIPOONDI Village

Gummidipoondi Taluk

Tiruvallur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:56:14 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.

Pin: 600004

Copy to:

1. The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District.

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T	Bag Filters with stack	32	20664
2	Induction Furnace 12T	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
5	Coal fired reheating furnace	Wet scrubber with stack	30	36787
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl. No.	Parameter	Unit	Tolerance limits	(1) (2) (3) (4) (5) (6)

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below.

Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	
				Industrial, Residential, Rural and other area	Ecologically Sensitive Area (notified by Central Govt.)
1.	Sulphur Dioxide (SO2)	Annual 24 hours	microgram/m3 microgram/m3	50 80	20 80
2.	Nitrogen Dioxide (NO2)	Annual 24 hours	microgram/m3 microgram/m3	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM10	Annual 24 hours	microgram/m3 microgram/m3	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	Annual 24 hours	microgram/m3 microgram/m3	40 60	40 60
5.	Ozone (O3)	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	**Industrial, Residential, Rural and other area** **Ecologically Sensitive Area (notified by Central Govt.)**
6.	Lead (Pb)	Annual 24 hours	microgram/m3 microgram/m3	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m3 miligram/m3	02 04	02 04
8.	Ammonia (NH3)	Annual 24 hours	microgram/m3 microgram/m3	100 400	100 400
9.	Benzene (C6H6)	Annual	microgram/m3	5	5
10.	Benzo(O) Pyrene (BaP) -particulate phase only	Annual	nanogram/m3	01	01
11.	Arsenic (As)	Annual	nanogram/m3	06	06
12.	Nickel (Ni)	Annual	nanogram/m3	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	Day Time	Night Time
IndustrialArea	75	70

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.

5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.

6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.
7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.
8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace of 15 T and the existing 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
4. The unit shall operate and maintain the air pollution control measures continuously and efficiently so as to ensure that the emission shall satisfy the AAQ/Emission standards prescribed by the Board.
5. The unit shall continue to develop and maintain adequate green belt in and around the premises.
6. The unit shall ensure that stacks are connected to CARE Centre, Guindy at all the times.
7. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel glass, porcelain plates/cups, cloth bag, jute bag etc.

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:56:52 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

S RAGUPATHI Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:57:21 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - II B
CTO - WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307155530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL/GMP/W/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director
M/s . KANISHK STEEL INDUSTRIES LIMITED
S.F No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt
OLD GUMMIDIPOONDI Village
Gummidipoondi Taluk
Tiruvallur District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:54:26 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,
Chennai-600 004.
Pin: 600004

Copy to:

1. The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent - NILL			
1.	Cooling Tower Bleed Off	19.0	Used as Cooling Water Make up in Rolling Mill

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1		1		
1.	pH		5.5 to 9		5.5 to 9		
2.	Temperature	oC	-		shall not exceed 5°C above the receiving water temperature		
3.	Particle size of Suspended solids	-	-		shall pass 850 micron IS sieve		
4.	Total Suspended Solids	mg/l	30		100		
5.	Total Dissolved solids (inorganic)	mg/l	-		2100		
6.	Oil & Grease	mg/l	-		10		
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20		30		
8.	Chemical Oxygen Demand	mg/l	-		250		
9.	Chloride (as Cl)	mg/l	-		1000		
10.	Sulphates (as SO4)	mg/l	-		1000		
11.	Total Residual Chlorine	mg/l	-		1		
12.	Ammonical Nitrogen (as N)	mg/l	-		50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-		100		
14.	Free Ammonia (as NH3)	mg/l	-		5		
15.	Arsenic (as As)	mg/l	-		0.2		
16.	Mercury (as Hg)	mg/l	-		0.01		
17.	Lead (as Pb)	mg/l	-		0.1		
18.	Cadmium(as Cd)	mg/l	-		2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-		0.1		
20.	Total Chromium (as Cr)	mg/l	-		2		
21.	Copper (as Cu)	mg/l	-		3		
22.	Zinc (as Zn)	mg/l	-		1		
23.	Selenium (as Se)	mg/l	-		0.05		
24.	Nickel (as Ni)	mg/l	-		3		
25.	Boron (as B)	mg/l	-		2		
26.	Percent Sodium	%	-		-		
27.	Residual Sodium Carbonate	mg/l	-		-		
28.	Cyanide (as CN)	mg/l	-		0.2		
29.	Fluoride (as F)	mg/l	-		2		
30.	Dissolved Phosphates(as P)	mg/l	-		5		
31.	Sulphide (as S)	mg/l	-		2		
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-		1		
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-		10-7		
35.	Radioactive materials b). Beta emitters	micro curie/ml	-		10-6		

36.	Fecal Coliform	MPN/100ml	-		-		

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
   a. Industrial Cooling, Spraying in mine pits or boiler feed.
   b. Domestic purpose.
   c. Process.

6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.

7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.

8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.

9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.

12. The occupier shall provide and maintain rain water harvesting facilities.

13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.

14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.

    i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.

    ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.

    iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.

    iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

    v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace and the existing old 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall obtain amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020 for retaining one coal fired reheating furnace of 15 T, to be used during emergency situations and furnish the same within a period of six months.
4. The unit shall operate the coal fired reheating furnace of 15 T only after obtaining amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
5. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
6. The unit shall operate and maintain the sewage treatment plant effectively and continuously so as to satisfy the standards prescribed by the Board
7. The unit shall utilize the treated sewage for gardening/ green belt development without any stagnation or ponding.
8. The unit shall ensure that the Cooling Tower Bleed Off of 19 KLD is used as Cooling Water Make up in Rolling Mill and ensure that and there is no discharge on land etc., under any circumstance
9. The unit shall ensure that no treated/untreated sewage shall gain access to the drain/water course at any point of time.
10. The unit shall dispose Non-Hazardous solid wastes then and there without accumulation of the same within the premises.
11. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The unit shall furnish the monthly reports on the quantity of Products manufactured with necessary supporting documents.
13. The unit shall comply with the E-Waste Management Rules, 2016. E-Waste as listed in schedule-I, generated by them shall be channelized through Collection Centre or dealer of authorized producer or dismantler or recycler or through the designated tack back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.
14. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:55:07 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
    a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
    b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form–4 before the end of the subsequent 30th June of every year (if applicable).
    c) Yearly Environmental Statement for the period from 1st April to 31st March in Form –V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.

21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.

22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.

23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

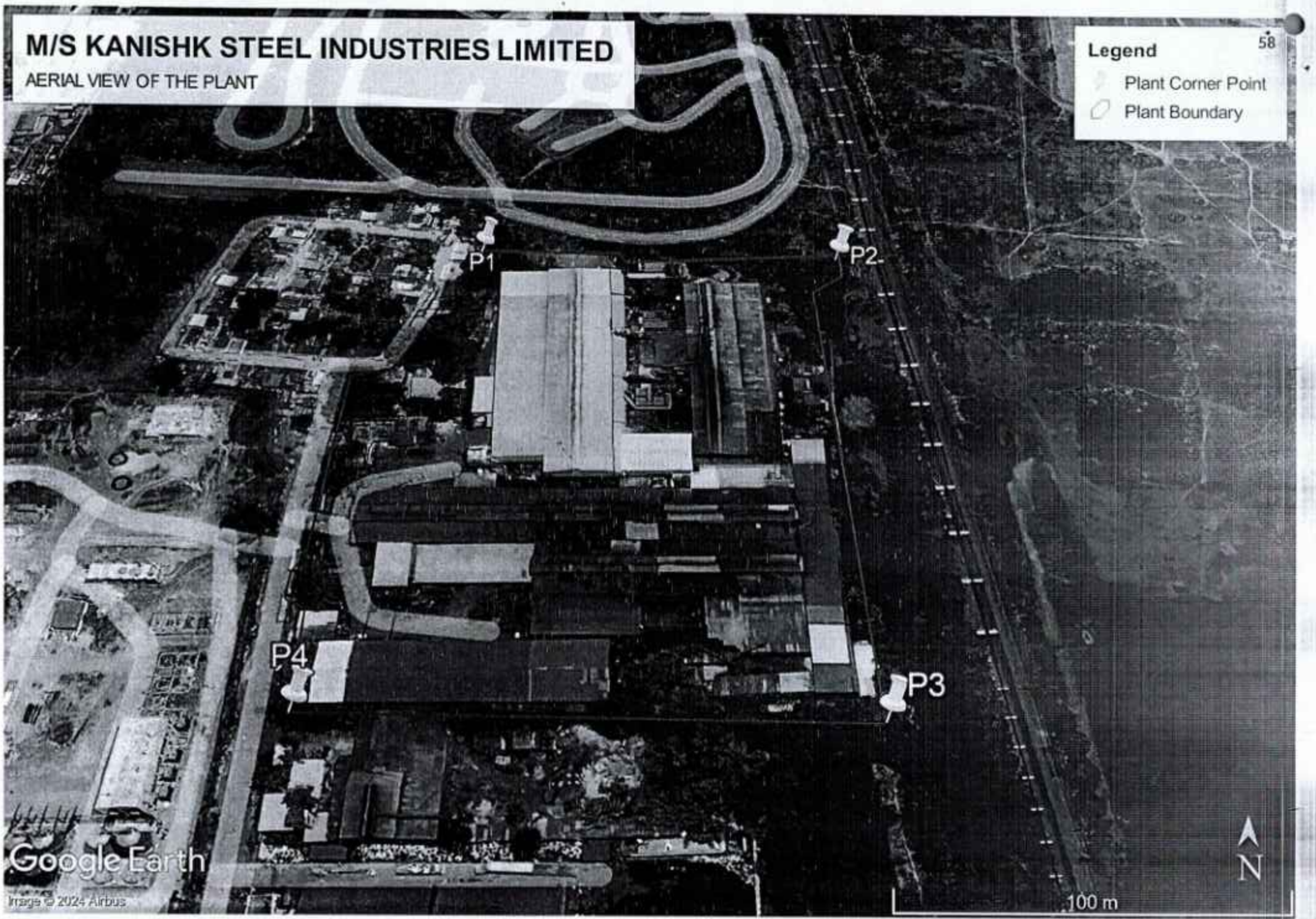
S RAGUPATHI Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:55:35 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - III
KSIL KML FILE PLANT SITE

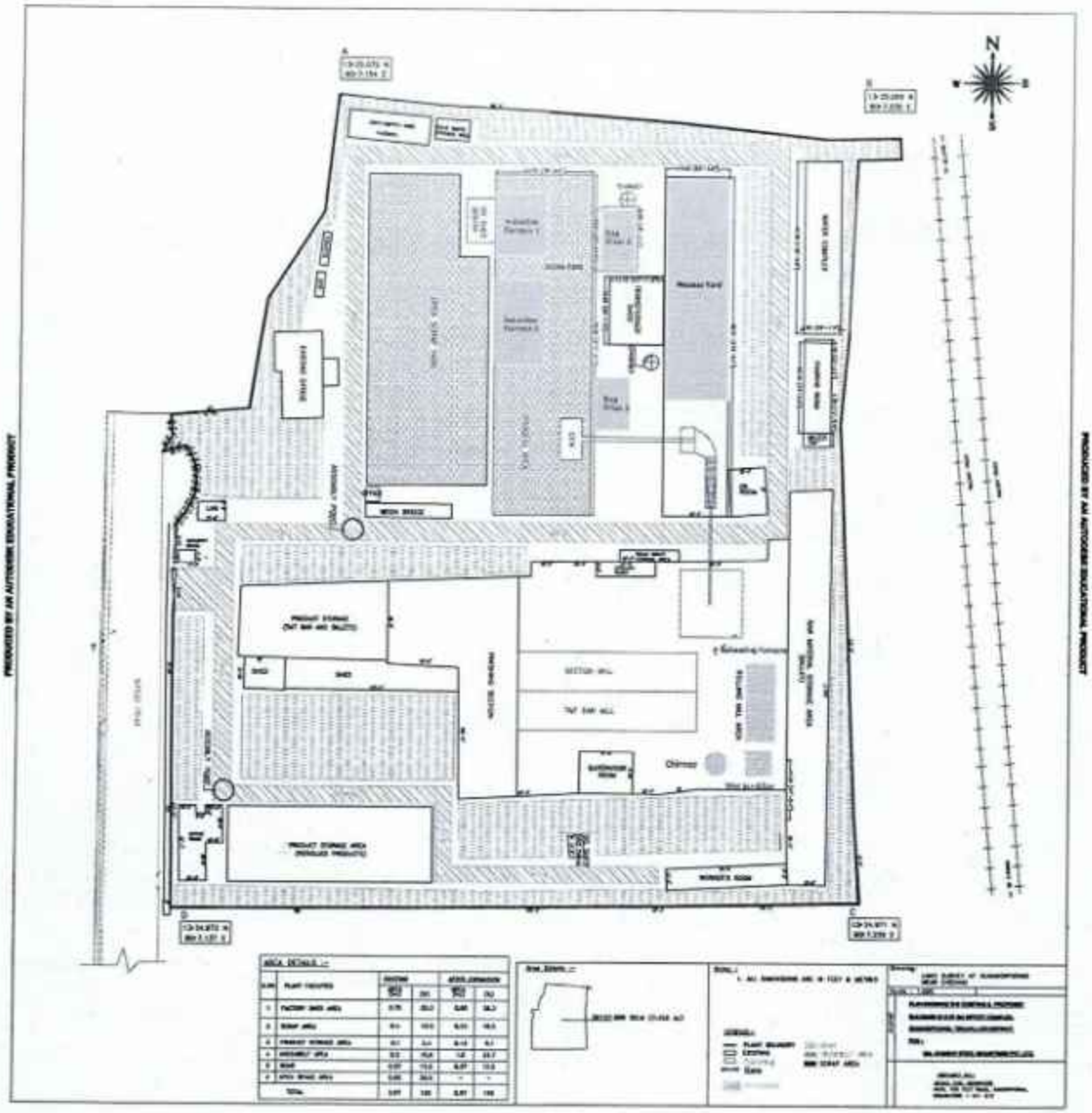
M/S KANISHK STEEL INDUSTRIES LIMITED

AERIAL VIEW OF THE PLANT



ANNEXURE - IV A
LAYOUT OF EXISTING PLANTATION AREA

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

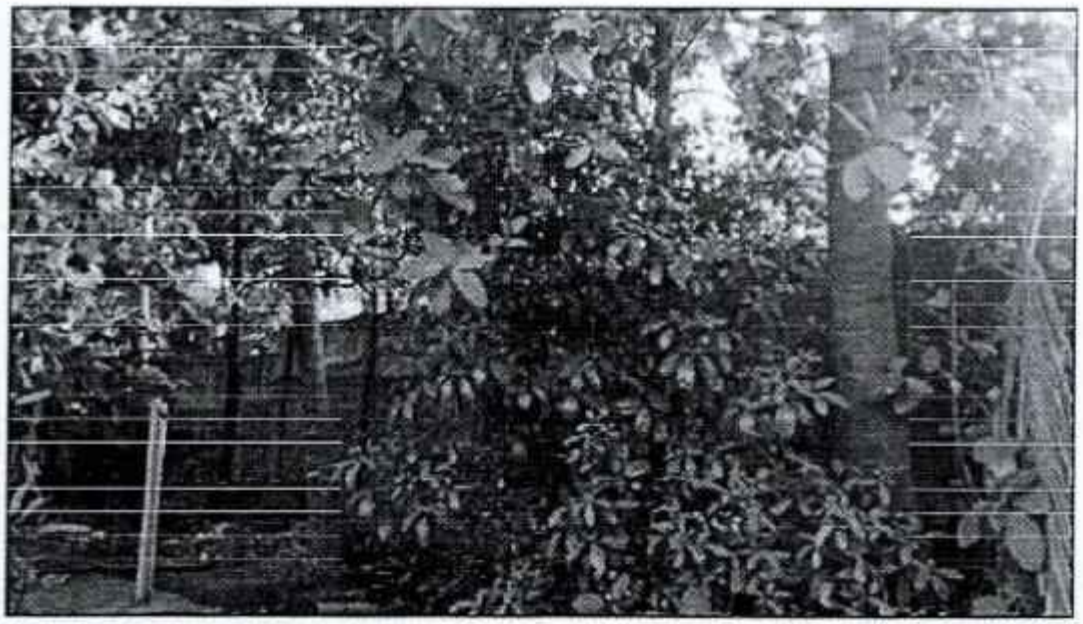


PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

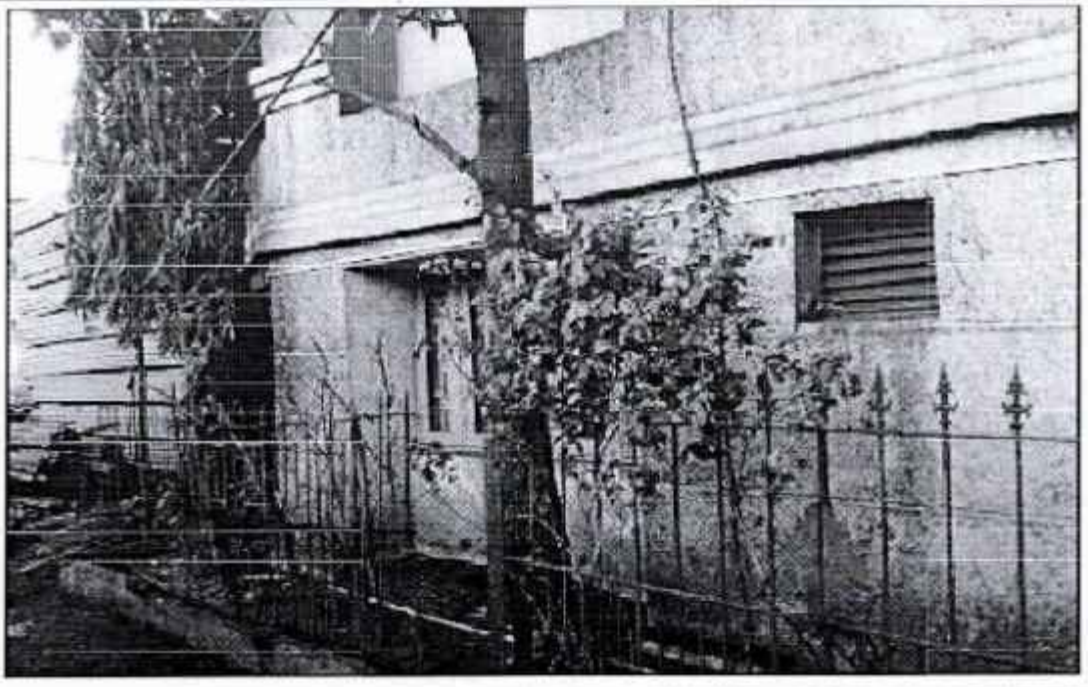
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

ANNEXURE - IV B
PHOTOGRAPHS OF EXISTING TREES/PLANTATIONS
&
TYPES OF TREE SPECIES

PHOTOGRAPHS OF EXISTING GREEN BELT



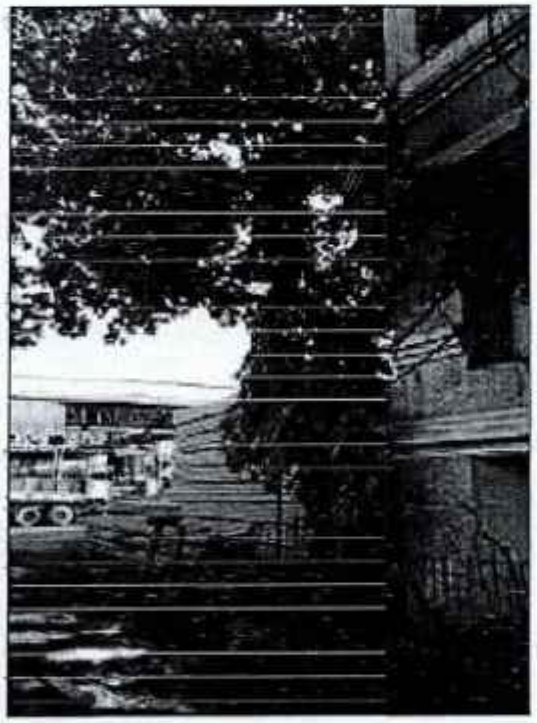


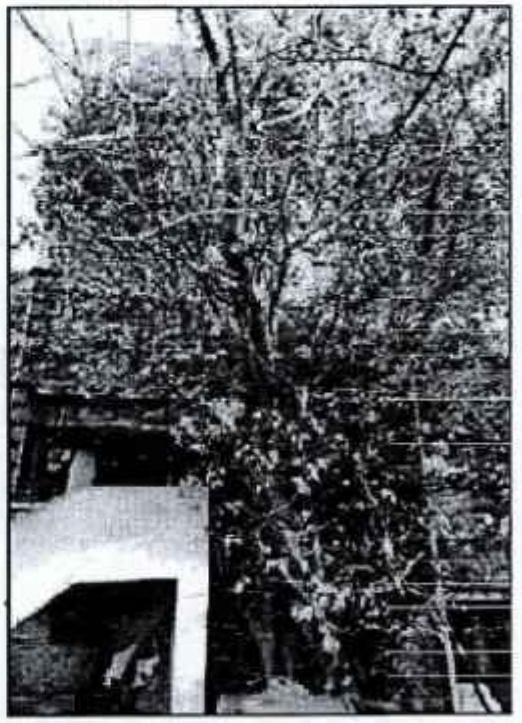












Types of trees species existing

Sr. No.	Name of the Trees
1	Banyan Tree
2	Mast Tree
3	Neem Tree
4	Mango Tree
5	Tamarind Tree
6	Ficus Religiosa Tree
7	Coconut Tree
8	Teakwood Tree
9	Almond Tree
10	Palm Tree
11	Guava Tree
12	Andrographic Paniculata Tree
13	Portia Tree
14	Pungai Tree
15	Mahogary
16	Badam Tree
17	Other Trees
Total	

Source: KSIL, Gummidipoondi.

ANNEXURE - IV C
Budget for Green Belt Development Under EMP

Budget for Green Belt Development under EMP

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	Air pollution control system	115
2	Water pollution control system	40.9
3	Environmental Monitoring	4.96
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	**176**

Source: KSIL, Gummidpoondi.

ANNEXURE - V

Monitoring Test Reports on Ambient Air, Soil, Ground Water, Noise

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur

Ambient Air Quality Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 Dated: 02.07.2024

1. Name of the industry : M/S. Kanishk Steel Industries Ltd
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey : 26.06.2024 Consent No: 2307266530848
4. Duration of Survey : Eight hours Dated: 08.12.2023
5. Category : OL Validity Upto : March 31st 2033
6. Land use classification : Industrial

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30.0	36.0		42	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominent Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	15 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On Top of Scaffolding Near Admin Building	NE	60	2.0	68.1	--	13.5	15.6
2	On Top of Scaffolding Near labour quarters	E	50	2.0	89.1	38.4	16.6	19.1
3	On Top of Scaffolding Near storage yard	SE	60	2.0	72.1	--	16.2	18.8
4	On Top of Scaffolding Near stores	SW	70	2.0	85.6	--	17.1	19.7
5	On Top of Scaffolding Near laboratory	NW	80	2.0	70	40.1	18.3	21.2

Note:- * With respect to major emission sources.
The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Gaeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

2/7/24

Deputy Chief Scientific Officer,
DEL. Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 27/AAQS/2024 - 25 Dated: 02.07.2024

1	Name of the Industry	M/S. Kanishk Steel Industries Ltd			
2	Address of the Industry	Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201			
3	Date of survey	26.06.2024			
4	Category	OL	Land Use Classification		Industrial
Type of survey		Ambient/Source		Time of Survey	Day
Meteorological Conditions		Calm			

Logging Parameters

Instrument Used	CESVA	**Serial No.**	T243104
Logging Interval	30 Minutes in each point	**Measuring Range**	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" Time Weighting	Slow
Sound Incidence	RANDOM	**Time in Hrs.**	15:30 - 16:20 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level - dB(A)		
					Leq	LMin	LMax
1	Near Admin Building	30	60	NE	70.5	66.2	85.2
2	Near labour quarters	30	50	E	74.0	70.6	86.6
3	Near storage yard	30	60	SE	69.4	65.3	82.6
4	Near stores	30	70	SW	72.6	69.4	87.3
5	Near laboratory	30	80	NW	65.1	61.3	78.2

Leq Value is the average energy for the measured period

2/7/24

Deputy Chief Scientific Officer.
DEL, Ambattur

WATER QUALITY TEST RESULT

KIWIS
ECO LABORATORIES PVT. LTD.
Recognized by MoEF & CC, GOI, New Delhi
Certified by ISO 9001:2015,
ISO 14001:2015 & OHSMS 45001:2018

Plot No. 19, ALEAP Industrial Estate,
SY No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040 23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Name and address of the client

M/s. Kamishk Steel Industries Limited,
S.F. No. B-27 (N,M & S) SIPCOT Industrial Complex, Peddikuppam Village,Gummidipoondi, Tiruvallur district Pin: 601 201.

Date of report	*: 08-05-2024*	*Sample Collected by*	*: Kiwis Eco Laboratories Pvt Ltd.,*
Date of sampling	*: 28-04-2024*	*Sample Collected in*	*: in Plastic Cans*
Sample received on	*: 30-04-2024*	*Sampling Procedure*	*: KIWIS/SOP/ Lab - 258*
Analysis starting date	*: 30-04-2024*	*Sample registration no/Code*	*: KSIL/N/COM/04/24/129*
Analysis completion date	*: 08-05-2024*	*Sample description*	*: Water Quality Monitoring*
Sub Contract Testing	*: NA*	*Name of the Location*	*: Ground water at Plant site*

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
1	Color	Hazen	APHA 2120 C	<5.0	5	15
2	Turbidity	NTU	APHA 2130 B	<1.0	1	5
3	pH @ 25.0°C	-	APHA 4500H+ B	6.9	6.5-8.5	No relaxation
4	Electrical Conductivity	µmho/Cm	APHA 2510 - B	3270	Not Specified	Not Specified
5	Total Dissolved solids	mg/L	APHA 2540 C	1950	500	2000
6	Total Solids	mg/L	APHA 2540 B	1958	Not Specified	Not Specified
7	Alkalinity as $CaCO_3$	mg/L	APHA 2320 B	171	200	600
8	Hardness as $CaCO_3$	mg/L	APHA 2340 C	820	200	600
9	Calcium as Ca	mg/L	APHA 3500 Ca B	233	75	200
10	Magnesium as Mg	mg/L	APHA 3500-Mg B	56	30	100
11	Chlorides as Cl^-	mg/L	APHA 4500 Cl^- B	759	250	1000
12	Sulphates as SO_4	mg/L	APHA 4500 SO_4 D	158	200	400
13	Nitrate as NO_3	mg/L	APHA 4500 NO_3 B	4.4	45	No relaxation

Note : This report is subject to the terms and conditions mentioned overleaf

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ISO 14001:2015 & OHSMS 45001:2018

Plot No. 19, A.I.E.A.P Industrial Estate,
SY. No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040 23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
14	Sodium as Na	mg/L	APHA 3500 Na B	460	Not Specified	Not Specified
15	Potassium as K	mg/L	APHA 3500 K B	18	Not Specified	Not Specified
16	Fluoride as F	mg/L	APHA 4500F- D	< 0.5	1	1.5
17	Iron as Fe	mg/L	APHA 3500 Fe B	< 0.3	1	No relaxation
18	Zinc as Zn	mg/L	APHA 3111 B	<0.2	5	15
19	Cyanide as CN	mg/L	APHA 4500 CN- C, E	<0.05	0.05	No relaxation
20	Phenolic Compounds as C_6H_5OH	mg/L	APHA 5530 D (Direct Photometric Method)	<0.001	0.001	0.002
21	Lead as Pb	mg/L	APHA 3111 B	<0.01	0.01	No relaxation
22	Mercury as Hg	mg/L	APHA-3112 Hg B	<0.001	0.001	0.001
23	Manganese as Mn	mg/L	APHA 3111 B	<0.1	0.1	0.3
24	Cadmium as Cd	mg/L	APHA 3111 B	<0.003	0.003	No relaxation
25	Chromium as Cr^{+6}	mg/L	APHA 3500 Cr B	<0.01	0.05	No relaxation
26	Copper as Cu	mg/L	APHA 3111 B	<0.05	0.05	1.5
27	Total Coliform	MPN/ 100ml	APHA 9221B	<0.05	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample
28	E-Coli	MPN/ 100ml	APHA 9221G	<1.8	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample

Methods follow: APHA 24thEdition
NA: Not Applicable
Opinion and interpretation: Nil

- Reports pertained only to the submitted sample
- Test reports shall not be reproduced except in full, without written approval of the laboratory

Checked By

(V.Anusha)
(Sr.Chemist)

Authorized Signatory

(C.Sateesh)
(Manager Laboratory)

End of the Report

KIWIS/QF/7.8/02

KIWIS
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Plot No. 19, ALEAP Industrial Estat
SY. No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municip
Ranga Reddy Dist. Telangana - 500
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040-23816333

TEST REPORT

Report No: KIWIS/COM/S/2024/25

Name and address of the client

M/s. Kanishk Steel Industries Limited ,
S.F. No. B-27 (N,M & S) SIPCOT Industrial Complex,
Peddikuppam Village, Gummidipoondi,
Tiruvallur district Pin: 601 201.

Date of report	*:08-05-2024*	*Sample Collected by*	*: Kiwis Eco Laboratories Pvt Ltd.,*
Date of sampling	*:28-04-2024*	*Sample Collected in*	*: in Plastic Covers*
Sample received on	*: 30-04-2024*	*Sampling Procedure*	*: KIWIS/SOP/ Lab - 258*
Analysis starting date	*: 30-04-2024*	*Sample registration no/Code*	*: S/COM/04/2024/145*
Analysis completion date	*: 08-05-2024*	*Sample description*	*: Soil Quality Monitoring*
Sub Contract Testing	*: NA*	*Name of the Location*	*: **Plant site***

Note : This report is only

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Certified by ISO 9001:2015,
ISO 14001:2015 & OHSMS 45001:2018.

Plot No. 19, ALEAP Industrial Estate,
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Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090.
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040-23816333

TEST REPORT

Report No: KIWIS/COM/S/2024/25

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result
1	pH	-	IS 2720 (Part 26)-1987 (RA:2002)	8.6
2	Moisture Content	%	IS 9235-1979	3.2
3	Organic carbon	%	IS 2720 (part 22) – 1972 (RA:2010)	0.8
4	Ava. Calcium as Ca	mg/kg	STIDA&CGI	930
5	Ava. Magnesium as Mg	mg/kg	STIDA&CGI	539
6	Ava. Nitrogen as N	Kg/Hac	IS 14684:1999, RA 2008	92
7	Ava. Phosphates as P	Kg/Hac	STIDA&CGI	18
8	Ava. Potassium as K	Kg/Hac	FAO 2007	205
9	Cadmium as Cd	mg/kg	USEPA 3050B & USEPA SW 846 : 7130	<2.0
10	Chromium as Cr	mg/kg	USEPA 3050B & USEPA SW 846 : 7190	<2.0
11	Nickel as Ni	mg/kg	USEPA 3050B & USEPA SW 846 : 7520	<2.0
12	Lead as Pb	mg/kg	USEPA 3050B & USEPA SW 846 : 7420	<2.0
13	Copper	mg/kg	USEPA 3050B & USEPA SW 846 : 7210	<2.0
14	Zinc as Zn	mg/kg	USEPA 3050B & USEPA SW 846 : 7950	34

Opinion and interpretation: Nil

NA: Not Applicable

- Reports pertained only to the submitted sample
- Test reports shall not be reproduced except in full, without written approval of the laboratory

STIDA&CGI: Soil Testing in India; Department of Agriculture & Cooperation Ministry of Agriculture Government of India

Checked By

(O.Chowdeswararao)
Sr.Chemist

Authorized Signatory

(C. Satesh)
Manager Laboratory

End of the Report

Note : This report is subject to the terms and conditions mentioned overleaf

ANNEXURE - VI
Amount
for
Environmental Management

AMOUNT FOR ENVIRONMENTAL MANAGEMENT

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	Air pollution control system	115
2	Water pollution control system	40.9
3	Environmental Monitoring	4.96
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	**176**

Source: KSIL, Gummidpoondi.

ANNEXURE - VII
Acknowledgment
Six Monthly Compliance Reports of Period October 2023 to March 2024

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114186640
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114186640/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	16-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

ANNEXURE - VII
Acknowledgment
Six Monthly Compliance Reports of Period April 2024 to September 2024

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114931378
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114931378/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	18-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

ANNEXURE - VIII
News Paper Advertisement
of
ENVIRONMENTAL CLEARANCE

News Paper Advertisement

PUBLIC NOTICE

This is to inform that proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets unit located at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district, Tamilnadu has been accorded Environmental Clearance by the State Environmental Impact Assessment Authority of Tamil Nadu. The copies of the said clearance are available with the Tamil Nadu Pollution Control Board and may also be seen on the website of the State Environmental Impact Assessment Authority of TamilNadu at Https://environmentclearance.nic.in/TrackState_proposal.aspx?Type=EC&status=EC_new&statename=Tamil%20Nadu&pno=SIA/TN/IND/19912/2017&pid=62926

By, M/s. Kanishk Steel Industries Limited, Gummidipoondi

பொது அறிவிப்பு

இதன்மூலம் அனைவருக்கும் தெரிவிப்பது என்னவென்றால் M/s. Kanishk Steel Industries Limited, கும்மிடிபூண்டி, என்பவர்களுக்கு சொந்தமான பிளாட் எண். B 27 (N,M&S) SIPCOT தொழில்துறை வளாகம், கும்மிடிபூண்டி, திருவள்ளூர் மாவட்டம், தமிழ்நாடு என்ற இடத்தில் எஃகு உருக்கும்ஆலை மற்றும் உருளும் ஆலையில் 76000 TPA வின் மீண்டும் உருட்டப்பட்ட தயார்ப்புகள் அல்லது கட்டமைப்புகள் மற்றும் 83,000 TPA வின் MS பில்லெட்டுகள் விரிவாக்கத்திற்கான மற்றும் மேம்பாட்டிற்கான எங்களின் முன்மொழியப்பட்ட கட்டுமானத்திற்காக மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் ஒப்புதல் நகல்கள் தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியம் மற்றும் தமிழ்நாடு மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் இணையதளத்தில் பெறலாம்.

இடம்: சென்னை

தேதி: 08.08.2024

M/s. KANISHK STEEL INDUSTRIES LIMITED
Gummidipoondi

Gmail

Regional Office Chennai <roefccc1@gmail.com>

Submission of EC compliance conditions additional documents - KANISHK STEEL INDUSTRIES LTD

1 message

Kanishk Steel <kanishkgpd@gmail.com> Fri, Apr 4, 2025 at 6:58 PM
To: moefccc1@gmail.com, roefccc1@gmail.com

Dear Sir,

In continuation of the site visit to M/s Kanishk Steel Industries Limited on February 13, 2025, we hereby share some additional documents for the compliance status of the conditions mentioned in the Environmental Clearance documents.

Kindly find the attached documents with annexures for your reference.

Note : Google drive link for access of documents with annexures :- https://drive.google.com/drive/folders/1aeeqm_dFzHgvoD0jyQgbtJyX339OgUn4?usp=drive_link

KANISHK STEEL INDUSTRIES LTD
B-27M, Sipcot Industrial Complex
Gummidipoondi-601201
Ph:27922634/834
Fax:27922835

www.kanishkgroup.com

"Think Before You Print"

"Save Paper"
"Save Environment!"

CALIBRATION CERTIFICATE
OF
STACK POLLUTION MONITORING EQUIPMENT

NEVCO
Excellence in Measurements...

DSL -340 Calibration Report

Customer Name	KANISHK STEEL INDUSTRIES LTD.
Stack Details	A FURNACE
Instrument S/N	TRX-ASY-166-5571
Instrument Model	DSL -340 MK-III
Calibration Date	19.03.2024
Gain Set	Yes
Gain Reading	4.683
Measure Signal reading	3.706
DDP Zero Value	0.1
AGC Performed	Yes
Path Length (duct diameter)	1.2M (flange-to-flange separation)
DDP Span Factor	0.98
Analogue Calibrated	Yes
Deviation	0.2
Measurement Reading	Dust Concentration (mg/m3)
Measuring Range	0 – 1000 mg/m3 (user selectable)

Remarks

This instrument described above has been calibrated and found to comply with its published Performance specification at the point measured, which is valid for ONE year from date of calibration **(Valid till 18.03.2025)**

Calibration Done BY	Nevco Engineers Pvt Ltd
Authorized Signatory	Nevco Engineers Pvt. Ltd. New Delhi 110 065

PTO

NEVCO Engineers Pvt. Ltd.
CIN No : 55-57-103 OF 1993-94 Dt 27 01 94
Tel.: +91-44-22421801/1802, Fax: +91-11-26285202; Mobile: +91 9382182317/9381242317
ai@nevcoengineers.com / sekhar@nevcoengineers.com www.nevcoengineers.com / www.nevco.co.in
90A-2nd Floor, Opposite Iskon Temple, Amrit Puri B, Main Road, East of Kailash, Delhi - 110065

NEVCO
Excellence in Measurements...

DSL -340 Calibration Report

Customer Name	KANISHK STEEL INDUSTRIES LTD.
Stack Details	B FURNACE
Instrument S/N	TRX-ASY-166-4740
Instrument Model	DSL -340 MK-III
Calibration Date	19.03.2024
Gain Set	Yes
Gain Reading	4.682
Measure Signal reading	3.704
DDP Zero Value	0.1
AGC Performed	Yes
Path Length (duct diameter)	1.2M (flange-to-flange separation)
DDP Span Factor	0.99
Analogue Calibrated	Yes
Deviation	0.3
Measurement Reading	Dust Concentration (mg/m3)
Measuring Range	0 – 1000 mg/m3 (user selectable)

Remarks

This instrument described above has been calibrated and found to comply with its published Performance specification at the point measured, which is valid for ONE year from date of calibration **(Valid till 18.03.2025)**

Calibration Done BY	Nevco Engineers Pvt Ltd
Authorized Signatory	Nevco Engineers Pvt. Ltd. New Delhi 110 065

NEVCO Engineers Pvt. Ltd.

CIN No. 55-57-103 OF 1993-94 Dt. 27.01.94

Tel.: +91-44-22421801/1802, Fax: +91-11-26285202; Mobile: +91 9382182317/9381242317
chennai@nevcoengineers.com / sekhar@nevcoengineers.com www.nevcoengineers.com / www.nevco.co.in
90A, 2nd Floor, Opposite Iskon Temple, Amrit Puri B, Main Road, East of Kailash, Delhi

M/S KSIL MOU WITH HOSPITAL

AND

EMPLOYEES MEDICAL EXAMINATIONTEST REPORT

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

MEMORANDUM OF UNDERSTANDING

A Memorandum of Understanding was made on 1ST JANUARY, 2023 at Chennai, Tamil Nadu.

BETWEEN

"HNX Healthcare Pvt Ltd" hereinafter referred to as **"HNX Healthcare"** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"HNX Healthcare Pvt Ltd"**

AND

"KANISHK STEEL INDUSTRIES LTD" has its office at NO B-27 M & N Sipcot Industrial Complex, Gummidipoondi – 601201 (Formely OP STEEL LIMITED, NO B-27 M Sipcot Industrial Complex, Gummidipoondi-601201), Tamil Nadu, India, hereinafter referred to as **"KANISHK STEEL "** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"KANISHK STEEL"**.

Whereas, **"KANISHK STEEL"** has had a mutual discussion for the purpose of Operation & Maintenance of Health Checkup and OPD / IP facilities for their existing & retired employees and to their dependents.

HNX Healthcare Pvt Ltd have agreed to provide Operation & Maintenance of Health Checkup and OPD/IP for their existing & retired employees and to their dependents visiting the Hospital at the below mentioned addresses:

ALPHA HOSPITALS GUMMIDIPOONDI	**340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201**

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HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

Both the parties do hereby agree as follows:

This MOU is valid for **2 (Two)** years from **1ST JANUARY, 2023**

1. **HNX Healthcare** agrees to provide health checkups/ Pre employment health checks and all diagnostic treatments, consultants and other procedures for OP visits / IP and during emergencies to the employees of "KANISHK STEEL REFINERIES" (Existing & Retired employees and their dependents).

   As a Privileged member "**KANISHK STEEL**", associates and family members can avail the following benefits at **ALPHA Hospitals** by displaying their ID & letter from concerned authority.

   - In Patient 10% discount (Excluding cost of medicines, implants, consumables).
   - IP discount is not applicable during health insurance covering patient treatment expenses.
   - During outpatient treatment 10% discount will be given on investigations and consultations.
   - HNX Healthcare will provide half yearly health check-up camps and quarterly Health awareness talks for free of cost in a year and also conducts paid camps as many as the corporate requirements.
   - Ambulance services will be provided at free of cost for IP admission patients within Chennai limits.
   - Home-care services will be provided along with doctor and nurse based on the emergency need along with medicines at the patient place itself with special consideration will be on confirmation letter from the company stating to provide for the consent employee or retired person.
   - Health checkup packages / rates will be charged by HNX Healthcare as agreed, mentioned in the annexure-1

2. The employee will produce a letter from authority & employee ID card, at the time of admission applicable if the payment is done by "**KANISHK STEEL**".

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HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

3. In case of emergency/ accident/ serious illness, the employee can be admitted to the hospital on producing his identity card / mediclaim card, in such case we will extend necessary medical facilities and intimate you within 24hours. **"KANISHK STEEL"**, will respond immediately and mail the letter of treatment approval advise
4. HNX Healthcare will submit the hospital bill within 7 days attested by the hospital authority if the payment is made by **"KANISHK STEEL"** the payment will be cleared within 30 days through NEFT Payment.
5. HNX Healthcare will give Treatment to **"KANISHK STEEL"** existing & retired employees and their dependents, based on Cash basis or Credit basis, On submission of Authorization letter / Mail issued by the Company in favor of the employee.
6. One point of contact needed from the **"KANISHK STEEL"** for any emergency to be reported to ALPHA HOSPITALS, who will be trained by us for the first aid management and intimating to the hospital regarding the emergency, based on emergency requirement ambulance will be sent to receive the patient for further management.
7. Referral procedure

"KANISHK STEEL"- Alpha Hospital - Secondary/ Tertiary care

Time duration: 45 - 50 mins MAX, they patient will get admitted in higher center after getting stabilized in Alpha Hopsitals

Governing Law, Dispute Resolution & Jurisdiction

a) This Agreement shall be governed by the Laws of India.

b) The agreement may be terminated by any of the parties by giving one month prior written notice to the other party.

c) In the event that the representatives of each Party fail to resolve the dispute, either Party shall be free to approach the Courts for resolution of the dispute.

d) The Courts of Chennai, Tamil Nadu shall have exclusive jurisdiction over any disputes arising out of this Agreement.

The parties have caused this MOU to be executed by their respective duly authorized representatives.

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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

MR. ASHOK KUMAR BOHRA
Director & GM
KANISHK STEEL INDUSTRIES LTD
Authorized Signatory

Dr. GIRISH DEVANADAN. P
Medical Director
HNX Healthcare Pvt Ltd
Authorized Signatory

MR. BALA GOVIND. S
Chief Operating Officer
Alpha Hospital
Authorized Signatory

HNX
HEALTH CARE PVT LTD

ALPHA HOSPITAL

Annexure :1

Whole Body Health Checkup Details - Male- Rs 3999/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HbA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL 2023

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Per Rectal Examination (For Men)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Reticulocyte Count
PSA for Men
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
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HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Whole Body Health Checkup Details :- Female - Rs 4499/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HBA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL : HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

LPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

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HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Pap Smear (for Woman)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Mammogram for Women
Reticulocyte Count
Ultrasound of Breast for woman if required
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pre- Employment Health checkup - Rs 1400 /-
1. E.C.G.
2. X-Ray Chest
3. Blood Tests
Complete Haemogram (which includes RBC Count, Hemoglobin, Total WBC Count, ESR, Packed Cell Volume, Differential Count)
Blood Sugar Fasting
Blood Grouping & RH Type
Urea, Creatinine
Cholesterol
Urine Routine
4. Ophthalmic Examination
5. ENT Examination (With Audiometry Test)
6. Spirometry
7. General Examination

LPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX HEALTHCARE PVT LTD

AUTHORIZED SIGNATURE

ALPHA HOSPITAL

Annexure :2

Locations details:

ALPHA HOSPITALS GUMMIDIPOONDI	340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201

ALPHA HOSPITAL

HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Annexure: 3

Hospital Contacts:

Contact Person for all Appointments/ Enquiry:

1. Dr Vinod Babu / 7277723456
(Chief Executive Officer)
Timing: 24/7

2. Mr. NITIN PRASAD / 9790850909
(DGM - Corp. Relations)
Timing (9am – 6pm)

ALPHA HOSPITAL

Health and Safety:

Health:

The company is dedicated to ensuring the safety and well-being of all its employees, both technical and non-technical. To this end, safety equipment including helmets, safety shoes, hand gloves, goggles, and face masks are provided regularly. It ensures that all workers entering the work area are properly equipped to handle the tasks at hand, reducing the risk of injury or accidents. The company takes this responsibility seriously, regularly inspecting and updating safety gear to comply with industry standards. By providing these essential protective items, the company not only complies with occupational safety regulations but also fosters a culture of safety and awareness among its employees.

Agreement with M/s. HNX Healthcare Private Limited:

KSIL places a high priority on the health and safety of its employees by partnering with nearby medical facilities, specifically M/s. HNX Healthcare Private Limited, to provide operation and maintenance of health checkups and OPD/IP services for both current and retired employees and their dependents at ALPHA Hospital, located at 3402 A, Raju Complex, Pappankuppam Village, Opp. MITSUBA, Gummidipoondi, which operates as a 24-hour facility.

This partnership ensures that employees have immediate access to professional medical care in case of health emergencies. Regular medical check-ups are conducted every fortnight for all laborers and staff, facilitating the early detection and treatment of any health issues. Additionally, the factory premises are equipped with a treatment room that includes beds and oxygen facilities to address immediate medical needs.

Benefits:

- In-Patient Services: A 10% discount is offered, excluding medicines, implants, and consumables. However, this discount is not applicable if the patient's treatment expenses are covered by health insurance.
- Out-Patient Services: A 10% discount is provided on investigations and consultations.
- Health Camps and Awareness: Half-yearly health check-up camps and quarterly health awareness talks on topics such as personal hygiene, HIV/AIDS, and COVID-19 are provided free of charge.

- Ambulance Services: Free ambulance services are available for in-patient admissions within Chennai limits.
- Home Care Services: Home care services, including a doctor and nurse along with necessary medicines, will be provided based on emergency needs. Special consideration is given when KSIL issues a confirmation letter for the employee or retired person requiring care.
- Health Checkup Packages: Health checkup packages are priced at Rs. 3999 for male employees and Rs. 4499 for female employees, as agreed with HNX Healthcare.
- Documentation: Employees must present an authority letter and employee ID card to avail of the benefits.
- Payment:All payments are made by Kanishk Steel.

Furthermore, Alpha Hospital has provided training in Basic Life Support (BLS). Senior officials of KSIL participated in First Aid Training – Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference.



CHAKRA CRITICAL CARE CENTRE AND HOSPITAL

ALPHA HOSPITAL

No.340/2 A, Raju Complex Bypass Road, Pappankuppam Village,Opposite Mittalbu, Gummidipoondi, Tiruvallur District - 601201. +91 8925414999 alphahospitalhnx@gmail.com

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

Sigamani T

has participated in First Aid Training - Senior Level at ALPHA HOSPITAL GUMMIDIPOONDI in association with Chakra Critical Care Centre and Hospital Chennai held on 19/01/2023

Dr. Girish Devanadan.P
MEDICAL DIRECTOR
ALPHA HOSPITAL

Dr. Amirthakumar Ramaswamy
CHAIRMAN
CHAKRA CRITICAL CARE CENTRE AND HOSPITAL



CHAKRA CRITICAL CARE CENTRE AND HOSPITAL

ALPHA HOSPITAL

No.340/2 A, Raju Complex Bypass Road, Pappankuppam Village,Opposite Mittalbu, Gummidipoondi, Tiruvallur District - 601201. +91 8925414999 alphahospitalhnx@gmail.com

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

K.V. Babu

has participated in First Aid Training - Senior Level at ALPHA HOSPITAL GUMMIDIPOONDI in association with Chakra Critical Care Centre and Hospital Chennai held on 19/01/2023

Dr. Girish Devanadan.P

Dr. Amirthakumar Ramaswamy
CHAIRMAN
CHAKRA CRITICAL CARE CENTRE AND HOSPITAL



KSIL has also arranged for a Medical Officer to provide periodic health services. The Medical Officer visits the industry fortnightly, offering healthcare services to the employees.





In addition to the above arrangements, KSIL is committed to ensuring the health and safety of its employees by establishing a treatment center within the industry premises. The center is equipped with an emergency medical kit, first aid supplies, medicines, and a resting bed, all as recommended by the Medical Officer.



Figure 1: Treatment Center at KSIL

The management has implemented a system for health monitoring by providing a Master Medical Health Check-up every six months in collaboration with Alpha Hospital, Gummidippondi.

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

Pure-tone audiogram

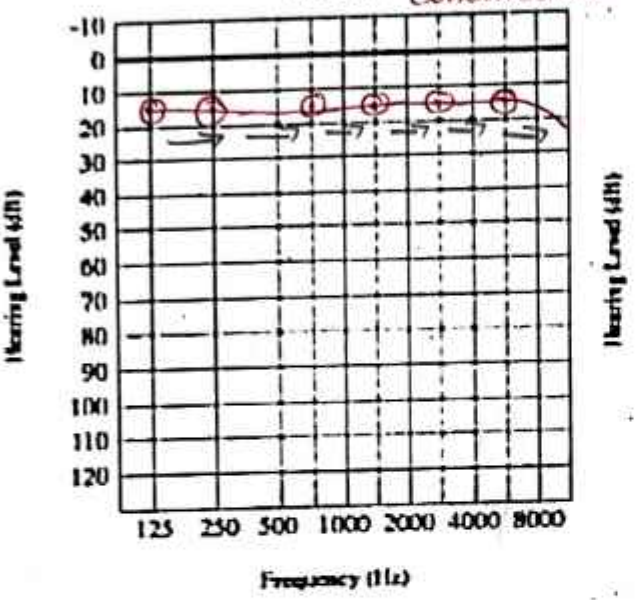
Name: Mr. Andavan

Date: 18/01/2023

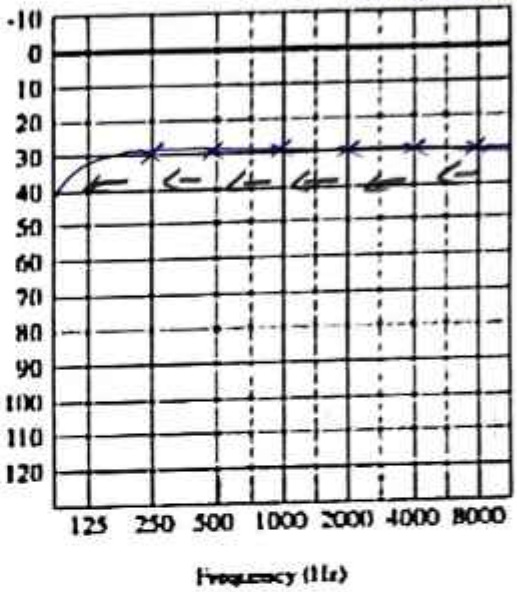
Date of birth: 15/03/1977

Case No: 01

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: 1 _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL
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ALPHA HOSPITAL

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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name- Mr Andaram

Date – 18/01/2023

Age/Sex-46/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

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Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

From

To

ALPHA
340
BY
ADHIYAN KUPPAM VILLAGE
SUMMIDIPOONDI 601 201

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 01
2. Department/Work :
3. Name of the worker : Mr. Andaram
4. Age : 46
5. Sex : Male
6. Date of Examination :
   Vision — Rt eye - 6/6 } Both eyes extremely normal
   Lt eye - 6/6 }
7. Results : a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN:
   Identifies Red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colourvision normal

ALPHA

HNX
HEALTHCARE PVT LTD

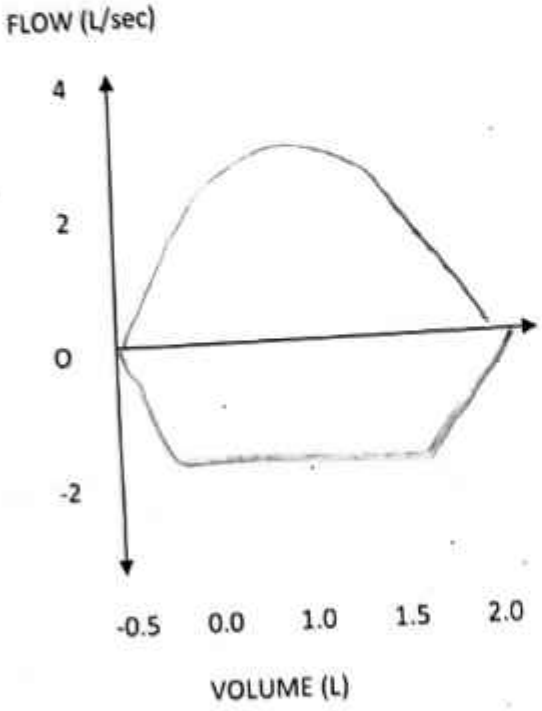
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. Adavam

AGE/SEX : 46 / male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
88%	90%	101%	97%	87%	85%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220025
Name: MY. Andaram
Sex : Male
Divisions:

DataTime: 2023-04-22 15:40
Age : 46
BP : mmHg
Bed No. :

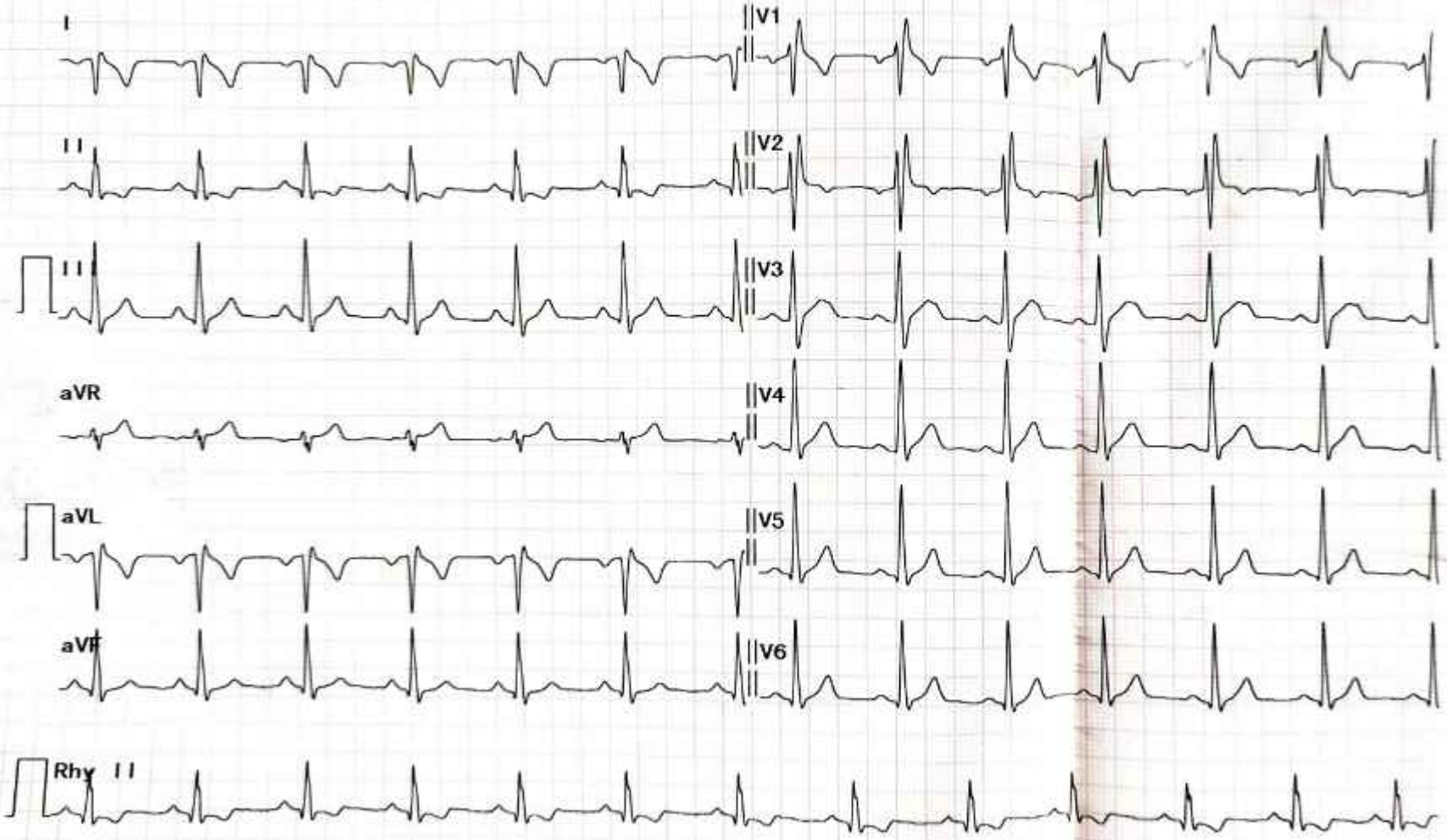
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	76 bpm
P Dur/PR int	111/159ms
QRS Dur	134ms
QT/QTC int	325/372 ms
P/QRS/T axis	110/131/139 °

RV5/SV1 amp 1.666/0.710mV
RV5+SV1 amp 2.376mV
RV6/SV2 amp 1.465/0.798mV

Minnesota Code
7-4-0
1-1-1(V2)
1-3-1(II)
4-3-1(V2)
4-1-0(I,aVL)

Diagnosis Info
800: Sinus Rhythm
502: IVCD(Intraventricular Conduction Block)
731: Suspect Anterior Infarction?(V2)
633: ST-T Abnormality(I,aVL)
204: Marked Right Axis Deviation



Diagnosis for reference. ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

A...W CE

25

1445604/.../25/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX
HEALTHCARE PVT LTD

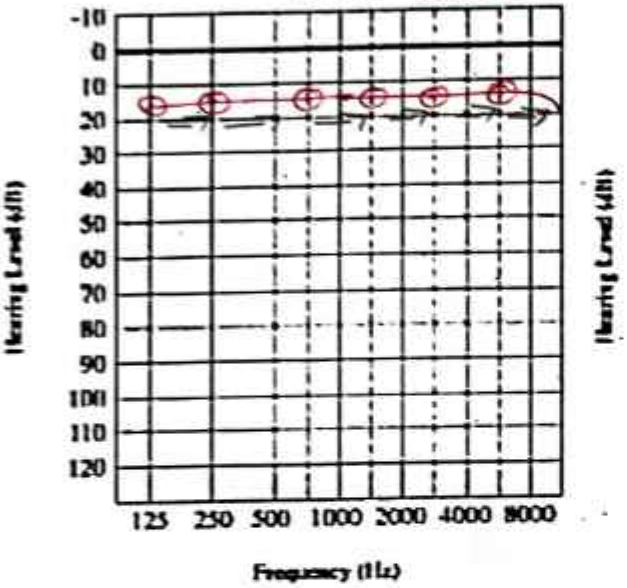
ALPHA HOSPITAL

Pure-tone audiogram

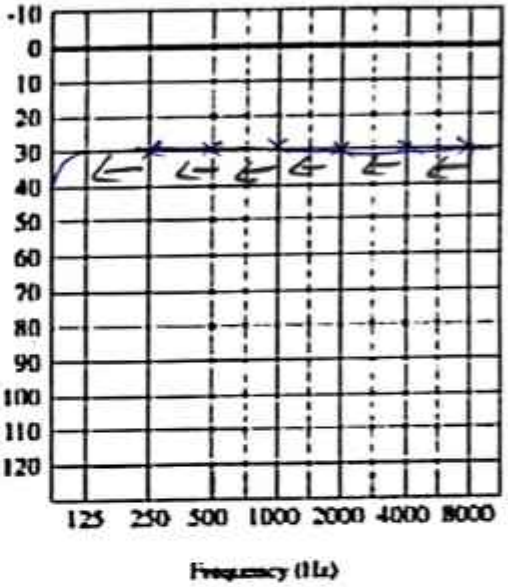
Name: Mr. Shiv Kumar Singh **Date:** 18/01/2023

Date of birth: 01/01/1977 **Case No:** 02

RIGHT Air and bone Conduction



LEFT



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing Sensitivity with normal limits

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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
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Contact : 8925414999

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HEALTHCARE PVT LTD

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Name-Mr.Sivakumar singh

Date – 18/01/2023

Age/Sex-46/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

From

To

ALPHA HOSPITAL
340 7A RAJU COMPLEX
BYPASS ROAD
[illegible] VILLAGE
[illegible]NDI 601 201

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 08
2. Department/Work :
3. Name of the worker : MR. Shiv Kumar Singh
4. Age : 46
5. Sex : Male
6. Date of Examination :
   Vision < Rt eye - 6/6 } Both eyes Extremely normal
   < Lt eye - 6/6 }
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN:
   Identifies Red / Green / Yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

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Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX HEALTHCARE PVT LTD

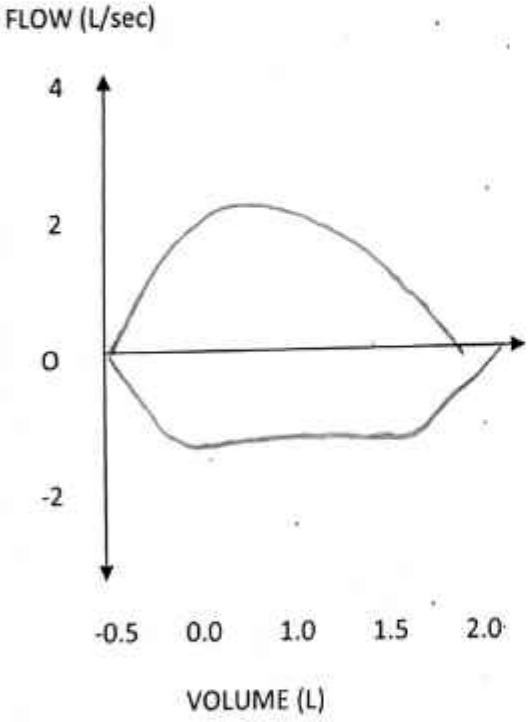
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. Shiv Kumar Singh

AGE/SEX : 46 /male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80%	97%	100%	91%	95%	98%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220024
Name: Mr. Shiv kumar Singh
Sex : Male
Divisions:

DataTime: 2023-04-22 15:39
Age : 46
BP : / mmHg
Bed No. :

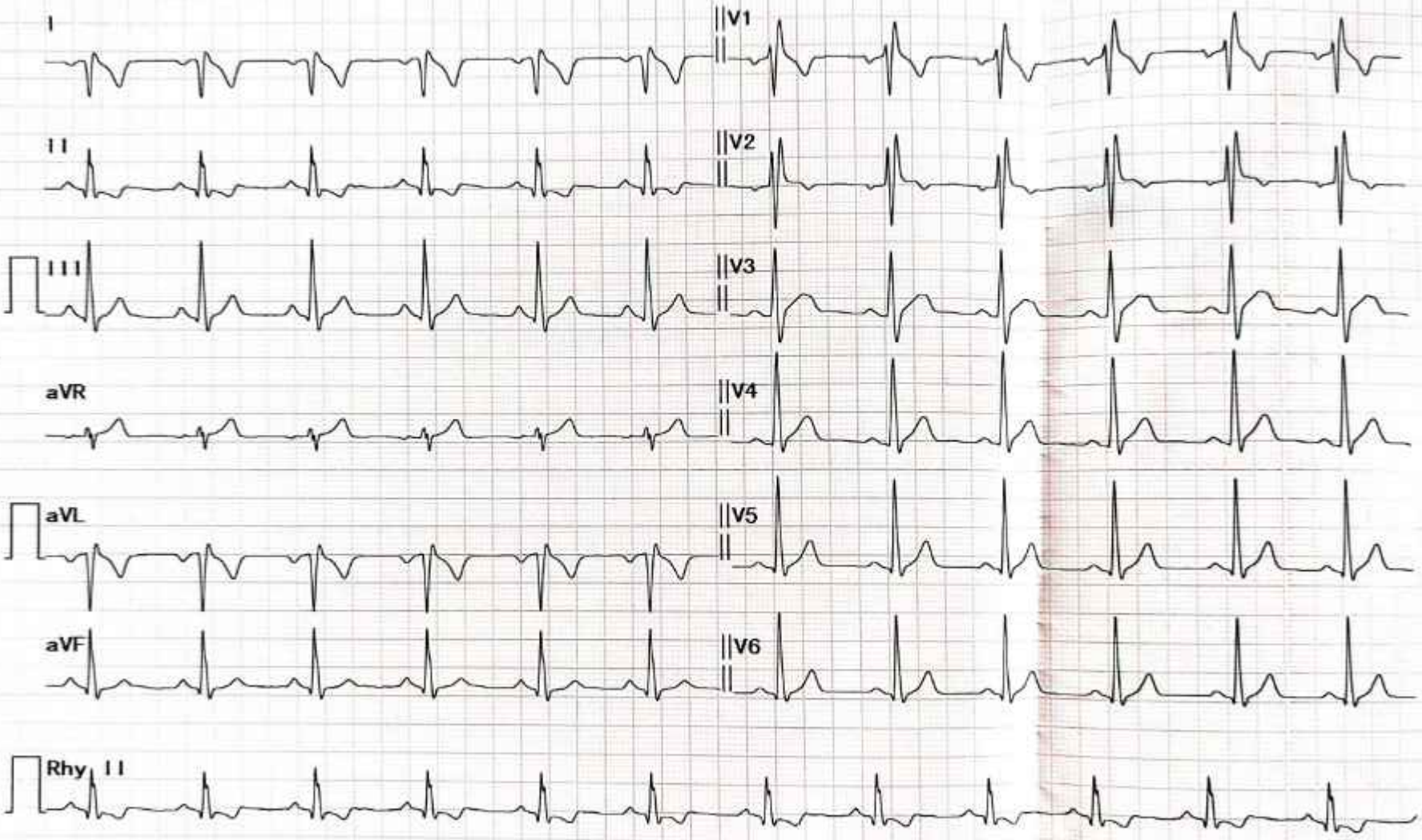
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR	76 bpm
P Dur/PR int	104/156ms
QRS Dur	114ms
QT/QTC int	335/375 ms
P/QRS/T axis	118/123/156 °

RV5/SV1 amp	1.666/0.715mV
RV5+SV1 amp	2.381mV
RV6/SV2 amp	1.465/0.766mV

Minnesota Code
1-1-1(I)
1-3-1(II)
4-2-0(I, II, aVL)
5-1-0(I)
5-2-1(II)

Diagnosis Info
800: Sinus Rhythm
732: Suspect Lateral Infarction?(I)
633: ST-T Abnormality(I, II)
204: Marked Right Axis Deviation



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

30

1445 04/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX
HEALTHCARE PVT LTD

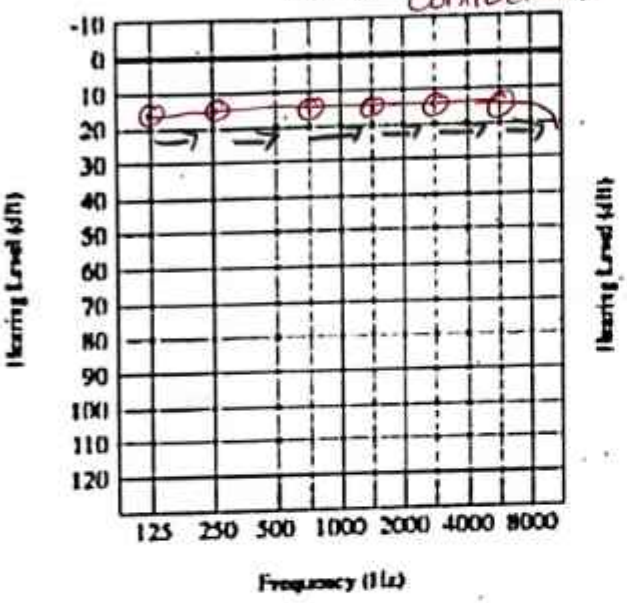
ALPHA HOSPITAL
REACHING UNREACHED

Pure-tone audiogram

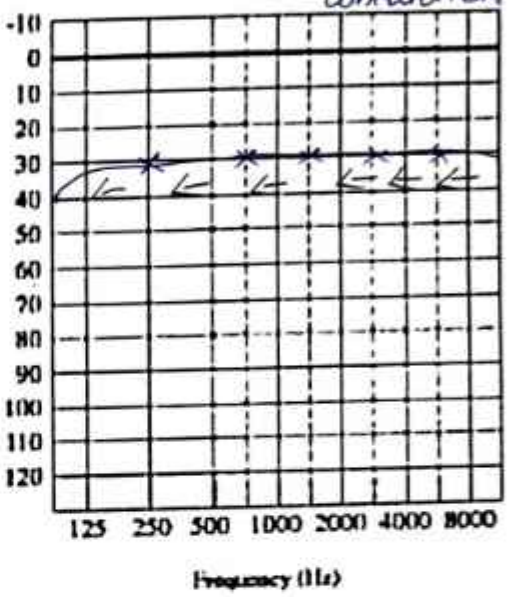
Name: MR. Achelal yadav **Date:** 18/01/2023

Date of birth: 01/01/1979 **Case No:** 03

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
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Name-Mr.Achelal yadav

Date – 18/01/2023

Age/Sex-44/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

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From

ALPHA HOSPITAL
3402A RAJ COMPLEX

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 03
2. Department/Work :
3. Name of the worker : Mr. Achelal yadav
4. Age : 44
5. Sex : Male
6. Date of Examination :
   Vision / Rt eye - 6/6 } Both eyes Extremely normal
   \ Lt eye - 6/6 }
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN:
   Identifies Red / Green / Yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX HEALTHCARE PVT LTD

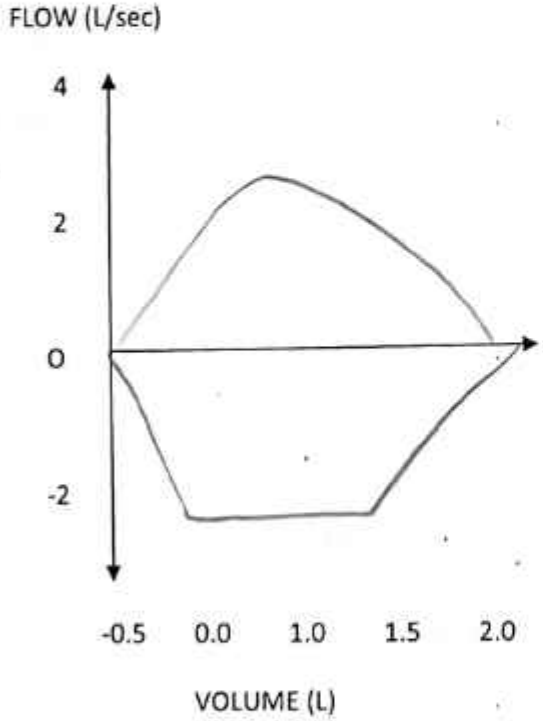
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. ACHELAL YADAV

AGE/SEX : 44/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	86%	90%	96%	98%	102%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220023
Name: MR. Achelal yadav
Sex : Male
Divisions:

DataTime: 2023-04-22 15:39
Age : 44
BP : mmHg
Bed No. :

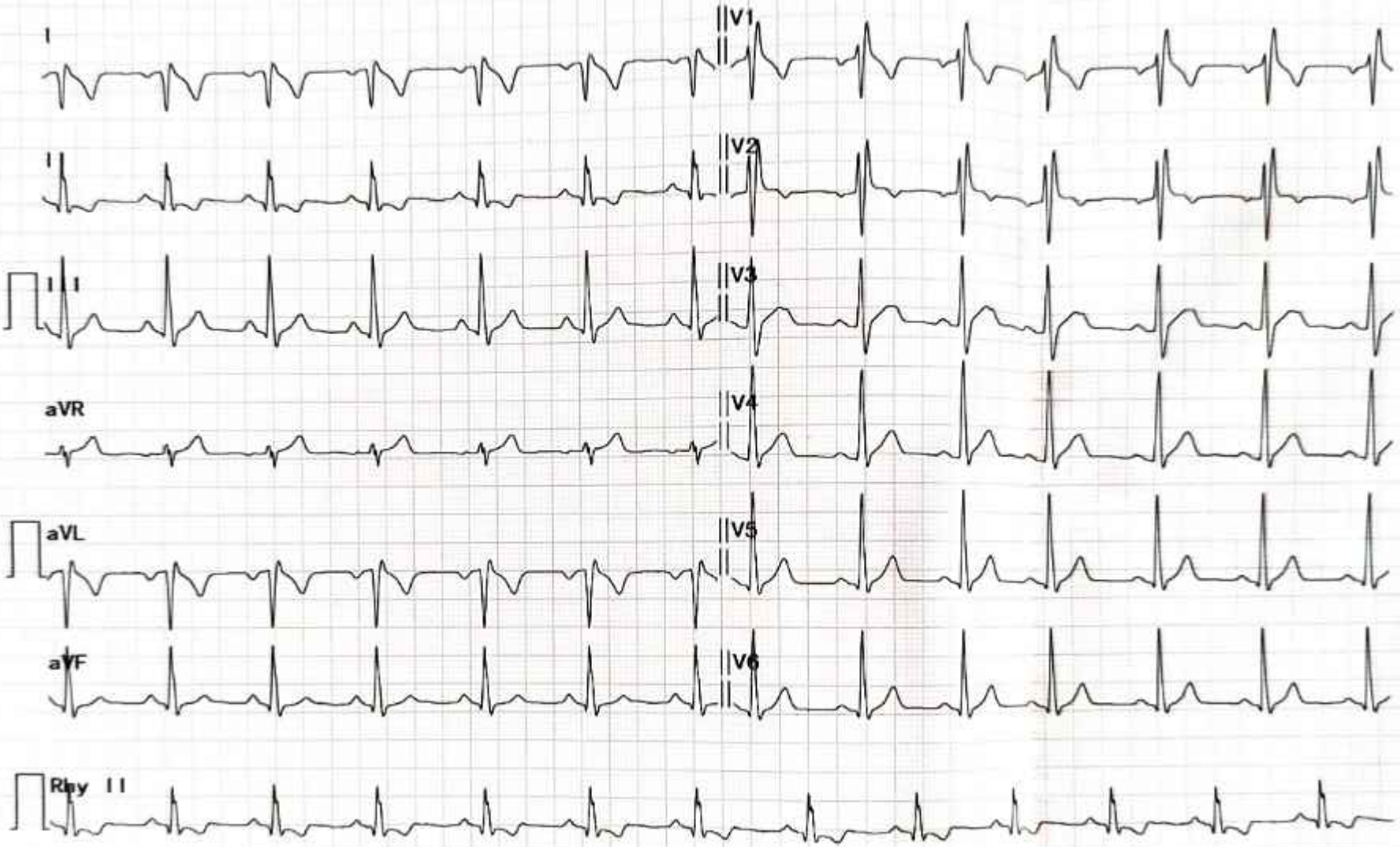
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	79 bpm
P Dur/PR int	106/156ms
QRS Dur	119ms
QT/QTC int	333/383 ms
P/QRS/T axis	118/126/155

RV5/SV1 amp	1.658/0.714mV
RV5+SV1 amp	2.372mV
RV6/SV2 amp	1.454/0.761mV

Minnesota Code
1-1-2(V1)
1-1-1(I)
1-3-1(II)
4-1-0(I)
4-2-0(II)

Diagnosis Info
800: Sinus Rhythm
151: Dextrocardia(Re-examination)?



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 79bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

1445604/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/[redacted] (Computer No. 247272)
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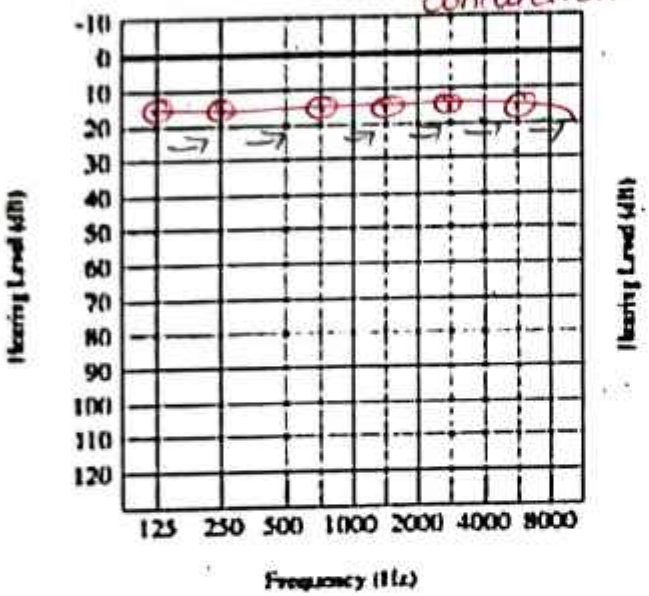
HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

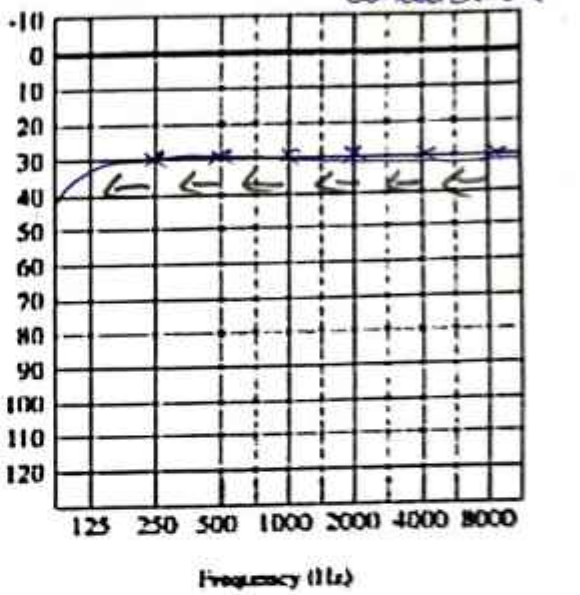
Pure-tone audiogram

Name: MY. Ranjeet Kumar
Date: 18/01/2025
Date of birth: 01/01/1995
Case No: 04

RIGHT Air and Bone conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Ranjeet kumar

Date – 18/01/2023

Age/Sex:28/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

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(Opposite To Mitsuba Company,Gummidipoondi)
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Contact : 8925414999

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From

To

ALPHA HOSPITAL
340 [illegible] COMPLEX
[illegible] ROAD
[illegible] AM VILLAGE
[illegible] 201

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 04
2. Department/Work :
3. Name of the worker : MR. Rajeet kumar
4. Age : 28
5. Sex : Male
6. Date of Examination :
   Vision < Rt eye - 6/6 } Both eyes Extremely normal
   < Lt eye - 6/6 }
7. Results :
   a) ISHIHARA CHARTS
   Identifies all chart correctly
   b) ELDERS GREEN LANTERN :
   Identifies Red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX HEALTHCARE PVT LTD

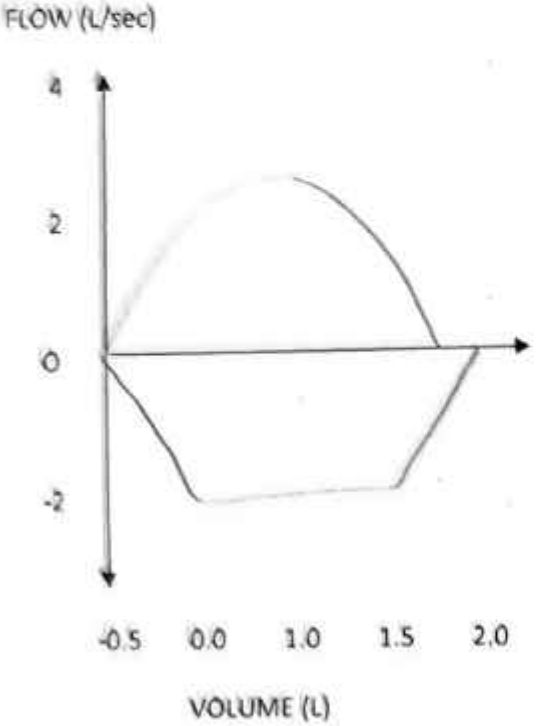
ALPHA HOSPITAL

NAME : Mr. Ranjeet KUMAR

AGE/SEX : 28/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	84%	88%	90%	90%	102%



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220022
Name: MY. Ranjeet kumar
Sex : male
Divisions:

DataTime: 2023-04-22 15:37
Age : 28
BP : mmHg
Bed No. :

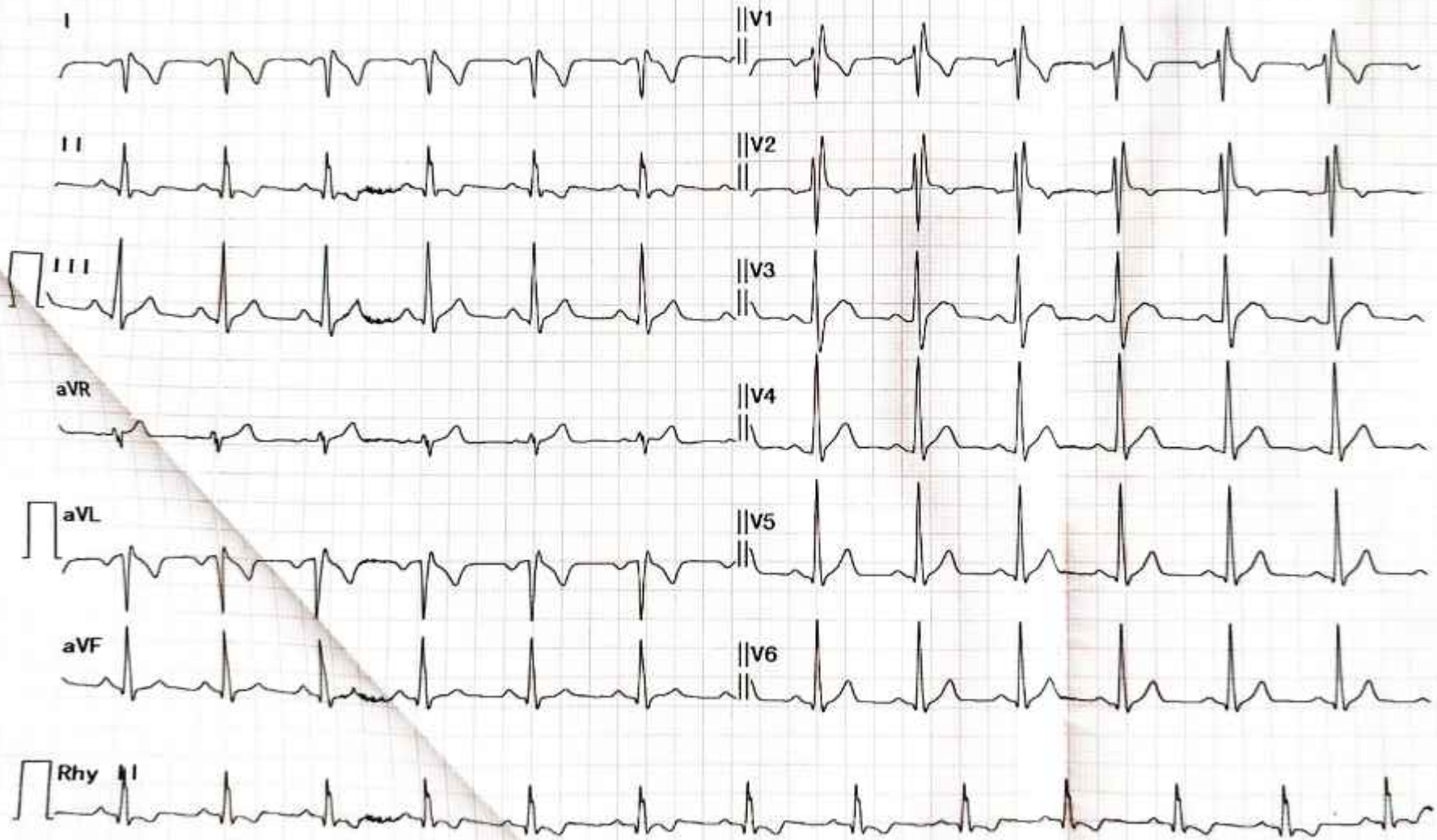
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR	79 bpm
P Dur/PR int	109/163ms
QRS Dur	113ms
QT QTC int	323/374 ms
P/QRS/T axis	121/119/150 °

RV5/SV1 amp	1.677/0.744mV
RV5+SV1 amp	2.421mV
RV6/SV2 amp	1.462/0.873mV

Minnesota Code
1-1-1(I,V2)
1-3-1(II)
4-2-0(V1)
4-1-0(I,aVL)
4-3-1(II)

Diagnosis Info
800: Sinus Rhythm
731: Suspect Anterior Infarction?(V2)
732: Suspect Lateral Infarction?(I)
633: ST-T Abnormality(I,aVL)
203: Right Axis Deviation



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 79bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

40

1445/04/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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HNX HEALTHCARE PVT LTD

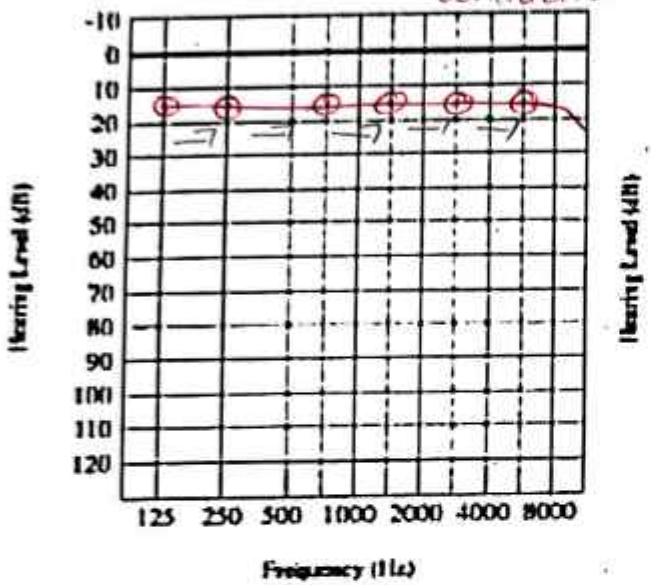
ALPHA HOSPITAL

Pure-tone audiogram

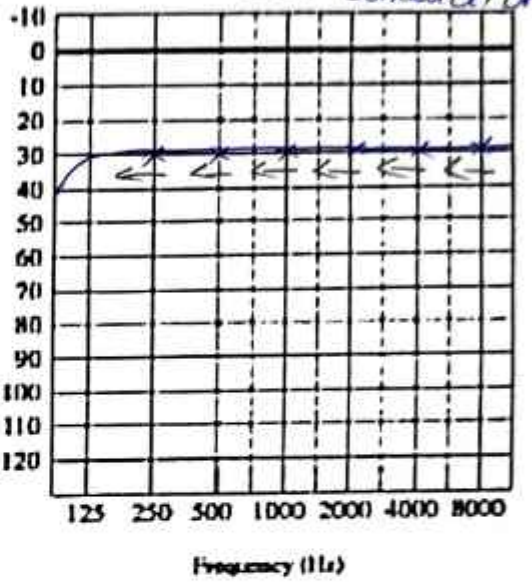
Name: MY. Ganesh prasad Behera **Date:** 18/01/2023

Date of birth: 18/06/1998 **Case No:** 05

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensibility with normal limits

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

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Name-Mr Ganesh Prasad behera

Date – 18/01/2023

Age/Sex-30/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
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Contact : 8925414999

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From

To

ALPHA HOSPITAL
[illegible]

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 05
2. Department/Work :
3. Name of the worker : Mr. Ganesh prasad behera
4. Age : 30
5. Sex : male
6. Date of Examination :
7. Results : Vision < Rt eye - 6/6, Lt eye - 6/6 } Both eyes extremely normal

a) ISHIHARA CHARTS
Identified all chart correctly
b) ELDERS GREEN LANTERN.
Identifies Red / Green / yellow colours correctly

8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA [illegible]

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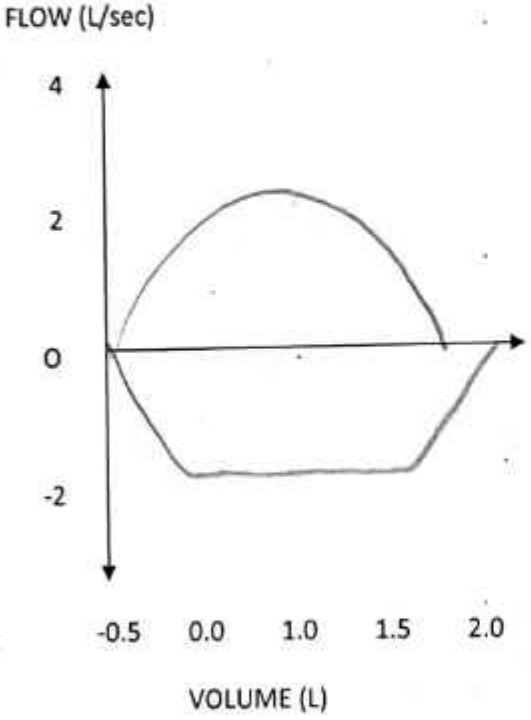
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. Ganesh prasad BEHERA

AGE/SEX : 30/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
84 %	86 %	88 %	90 %	92 %	100 %



Tester Signature

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ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220021
Name: Mr. Ganesh prasad -Behera
Sex : Male
Divisions:

DataTime: 2023-04-22 15:36
Age : 30
BP : / mmHg
Bed No. :

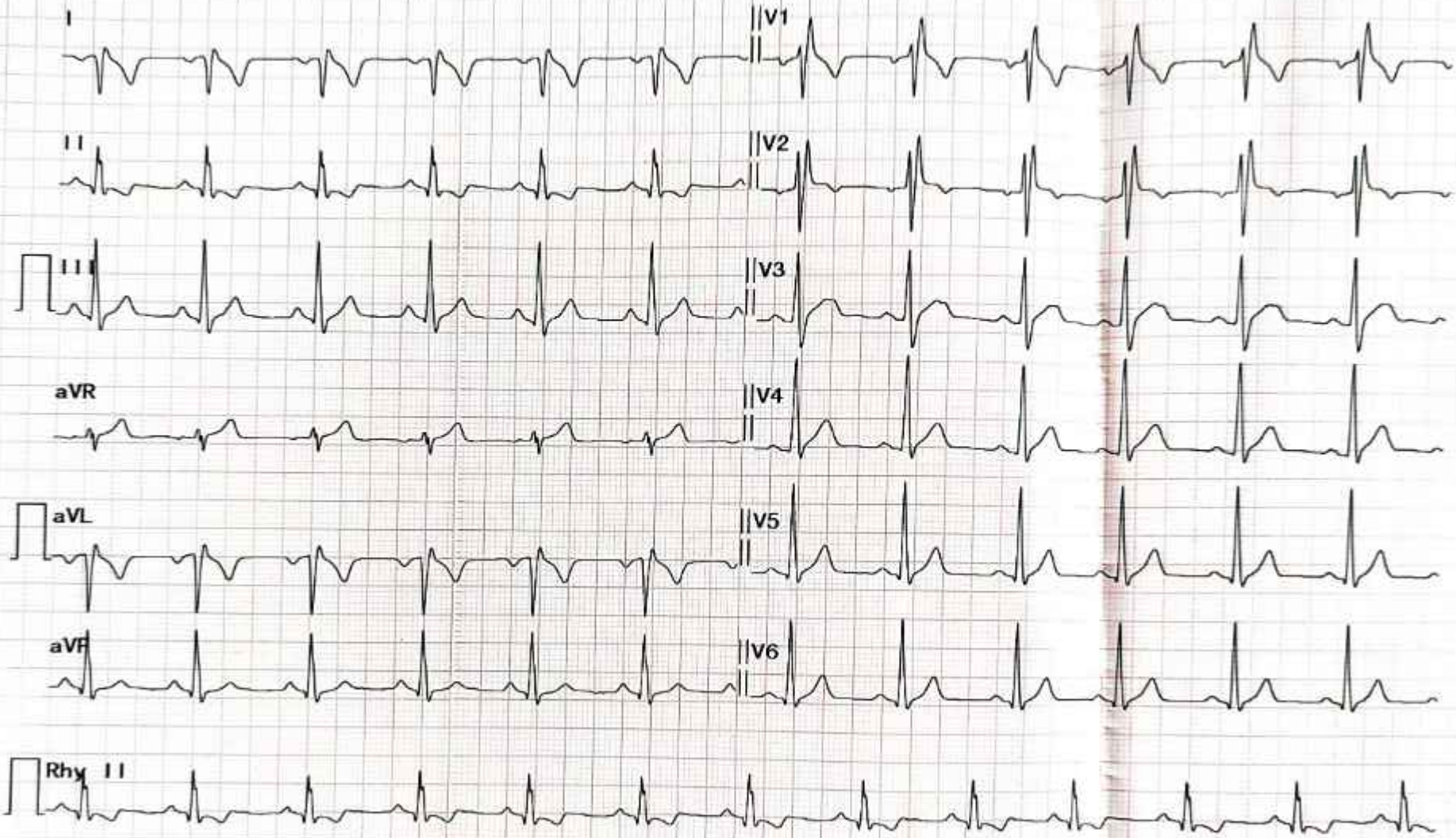
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	80 bpm
P Dur/PR int	106/158ms
QRS Dur	116ms
QT/QTC int	333/380 ms
P/QRS/T axis	116/124/158

RV5/SV1 amp	1.693/0.730mV
RV5+SV1 amp	2.423mV
RV6/SV2 amp	1.476/0.807mV

Minnesota Code
1-1-1(I)
1-3-1(II)
4-1-0(I)
4-2-0(II)
5-1-0(I)

Diagnosis Info
800: Sinus Rhythm
151: Dextrocardia(Re-examination)



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 80bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

45

1445604/2025/ADMIN(SEZ)
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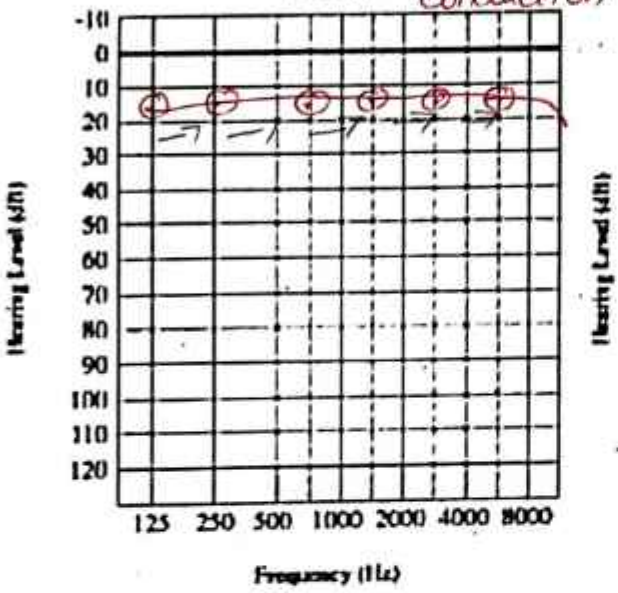
ALPHA HOSPITAL

Pure-tone audiogram

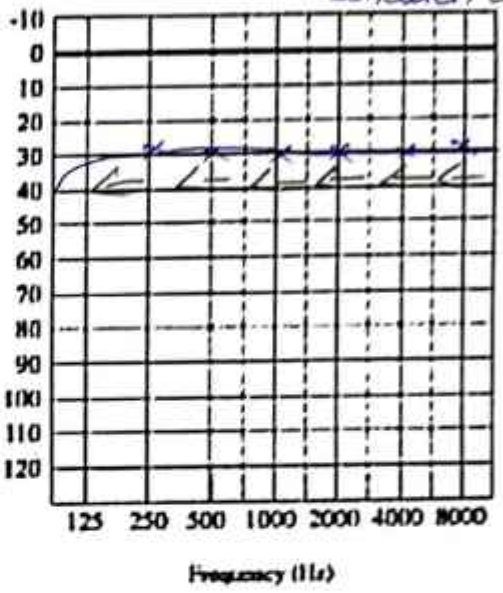
Name: Mr. Tarkeshwar Nath Ram **Date:** 18/01/2025

Date of birth: 01/01/1987 **Case No:** 06

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
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No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
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Contact : 8925414999

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Name-Mr.Tarkeshwar nath ram

Date – 18/01/2023

Age/Sex-36/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL
REACHING UNREACHED

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A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
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Contact : 8925414999

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From

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 06
2. Department/Work :
3. Name of the worker : Mr. Tarveshwar nathram
4. Age : 36
5. Sex : Male
6. Date of Examination :
   Vision < Rt eye - 6/6, Lt eye - 6/6 } Both eyes Extremely normal
7. Results :
   a) ISHIHARA CHARTS :-
   Identifies all chart correctly
   b) ELDERS GREEN LANTEEN :
   Identifies Red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

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HNX HEALTHCARE PVT LTD

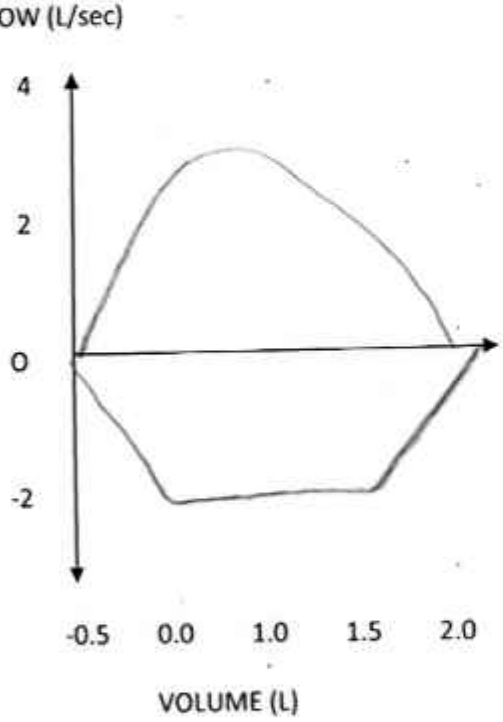
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. Tarkeshwar NATH Ram

AGE/SEX : 36/Male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80 %	82 %	86 %	88 %	92 %	104 %



Tester Signature

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Contact : 8925414999

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ID : 2304220020
Name: MY. Tarkeshwar Nath
Sex : Male
Divisions:

DataTime: 2023-04-22 15:36
Age : 86
BP : / mmHg
Bed No. :

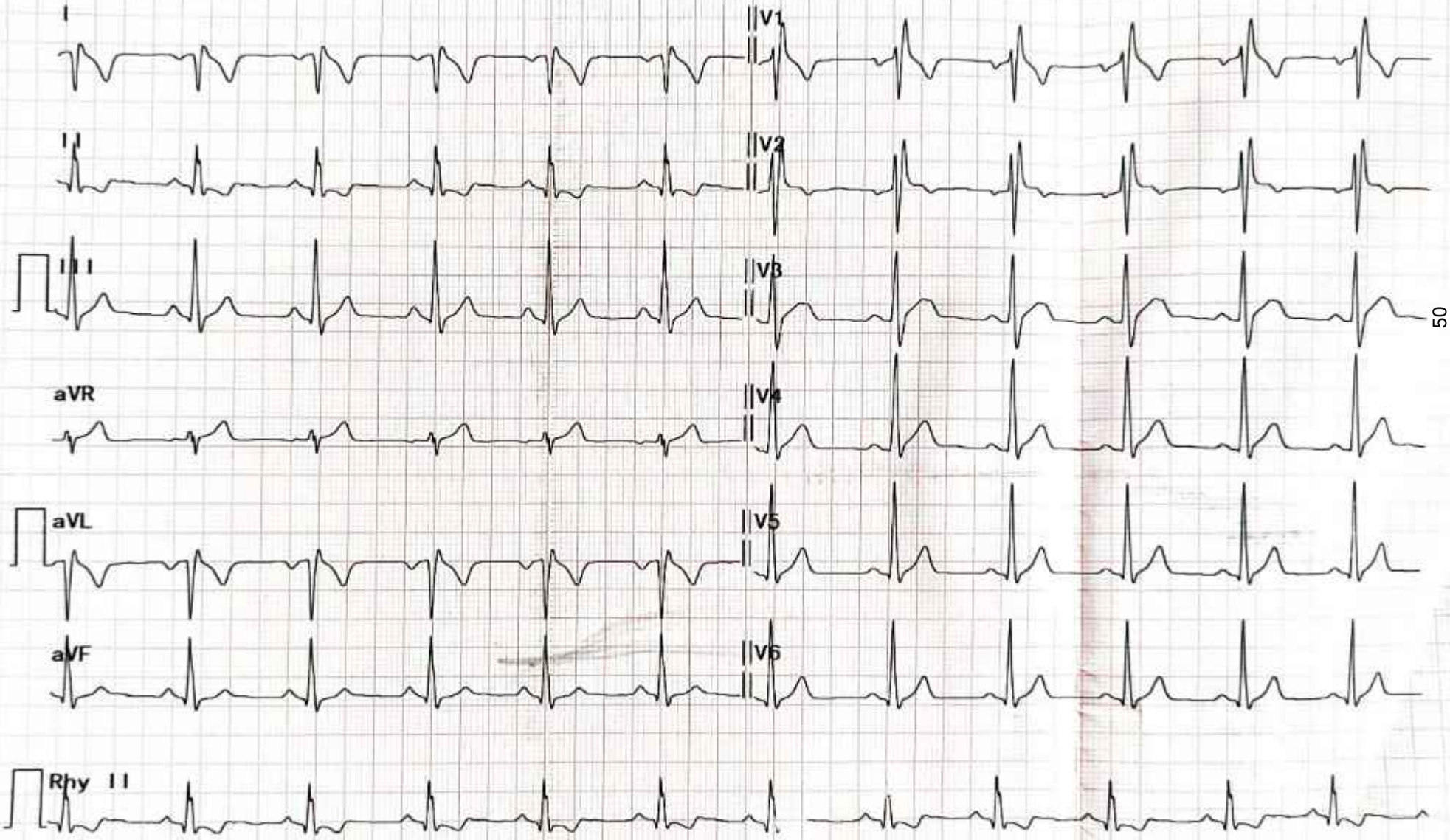
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	75 bpm	RV5/SV1 amp	1.706/0.760mV
P Dur/PR int	109/160ms	RV5+SV1 amp	2.466mV
QRS Dur	116ms	RV6/SV2 amp	1.481/0.876mV
QT/QTC int	329/365 ms		
P/QRS/T axis	112/120/151 °		

Minnesota Code
1-1-1(I, V2)
1-3-1(II)
4-5-0(V1)
4-1-0(I)
4-2-0(II)

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



50

Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 75bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

1445604/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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HNX HEALTHCARE PVT LTD

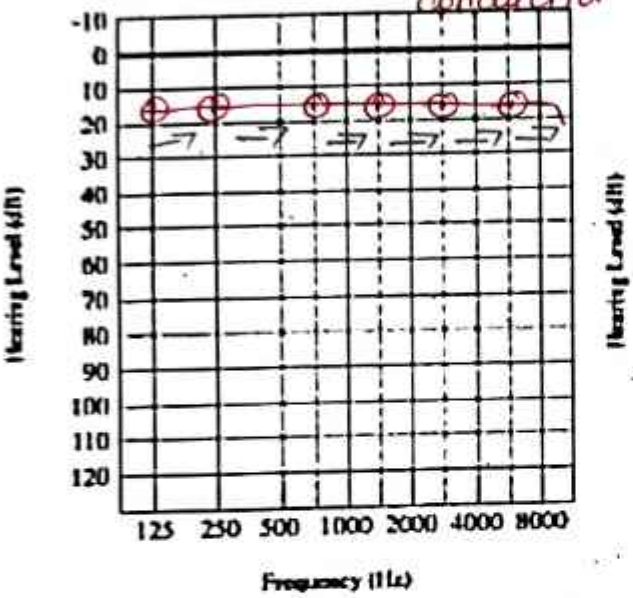
ALPHA HOSPITAL

Pure-tone audiogram

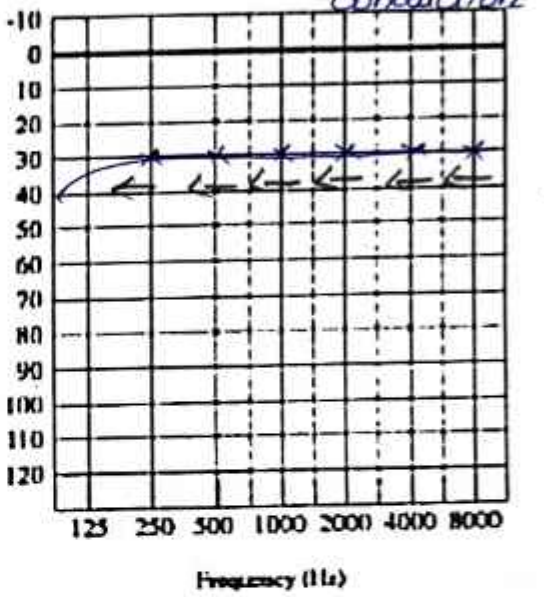
Name: MY. ASHOK KUMAR **Date:** 18/01/2023

Date of birth: 05/09/2008 **Case No:** 07

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

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No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
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Contact : 8925414999

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HEALTHCARE PVT LTD

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Name-Mr.Ashok kumar

Date – 18/01/2023

Age/Sex-20/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL
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Contact : 8925414999

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From

To

ALPHA HOS...
340 2A ...
BYPASS ROAD

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 07
2. Department/Work :
3. Name of the worker : MY. ASHOK KUMAR
4. Age : 20
5. Sex : Male
6. Date of Examination : Vision , Rt eye - 6/6 / Lt eye - 6/6 } both eyes Extremely normal
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all chart correctly
   b) ELDERS GREEN LANTEEN:
   Identifies Red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA H...

HNX HEALTHCARE PVT LTD

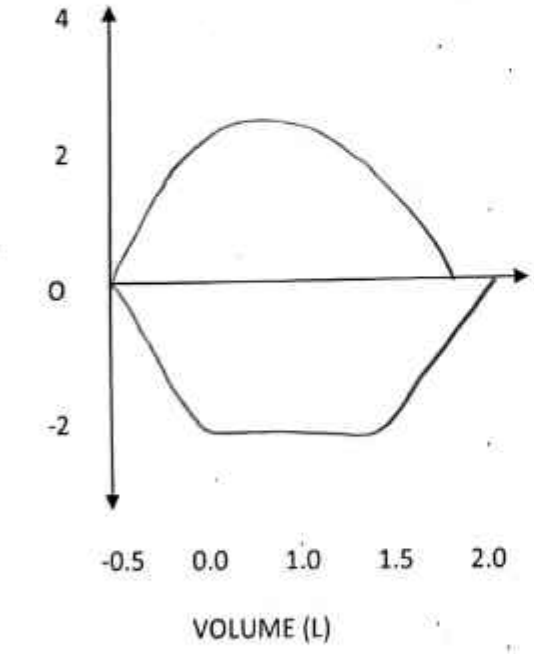
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. ASHOK KUMAR

AGE/SEX : 20/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
86%	90%	94%	96%	98%	120%



Tester Signature

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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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ID : 2304220043
Name: Mr. Ashok kumar
Sex : Male
Divisions:

DataTime: 2023-04-22 16:18
Age : 2D
BP : mmHg
Bed No. : 55

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

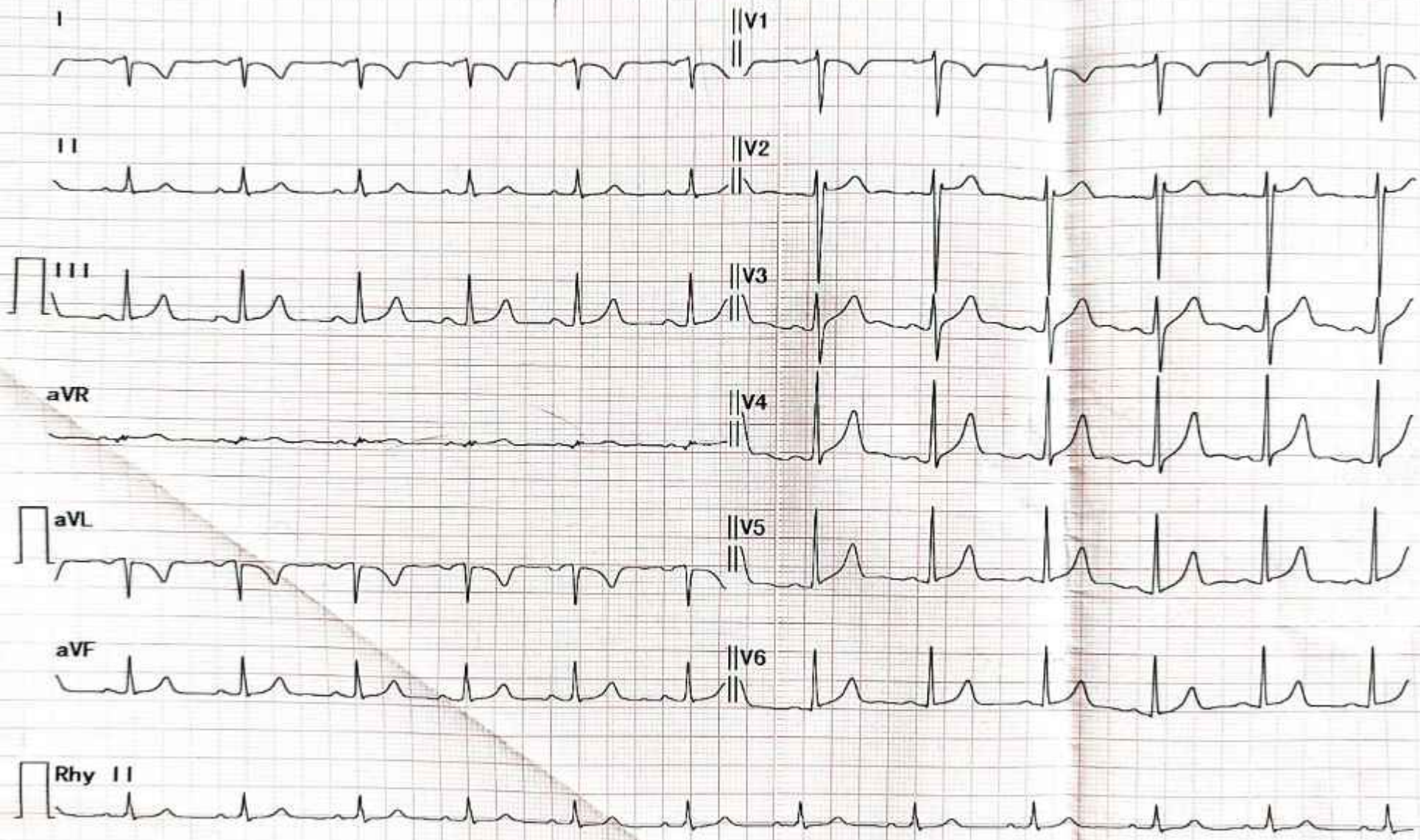
HR	73 bpm
P Dur/PR int	99 /154ms
QRS Dur	92 ms
QT/QTC int	374/413 ms
P/QRS/T axis	128/126/134 °

RV5/SV1 amp	1.446/0.998mV
RV5+SV1 amp	2.444mV
RV6/SV2 amp	1.114/1.726mV

Minnesota Code
4-2-0(I,aVL)
5-2-1(I,aVL)
9-4-1(V3)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 73bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

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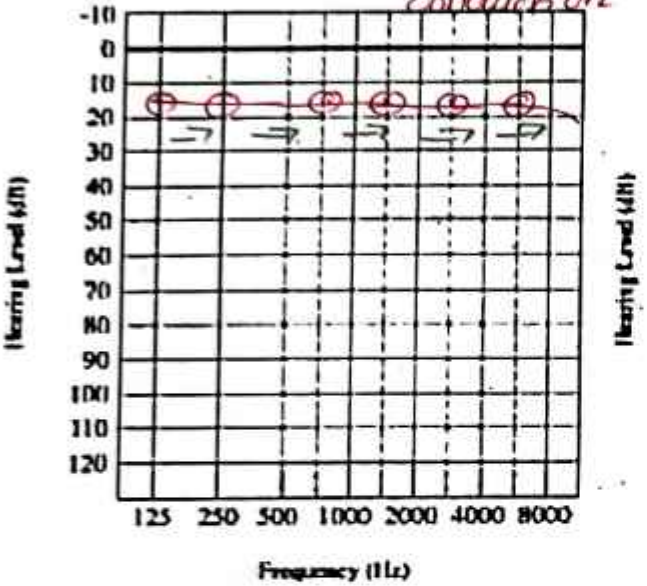
ALPHA HOSPITAL

Pure-tone audiogram

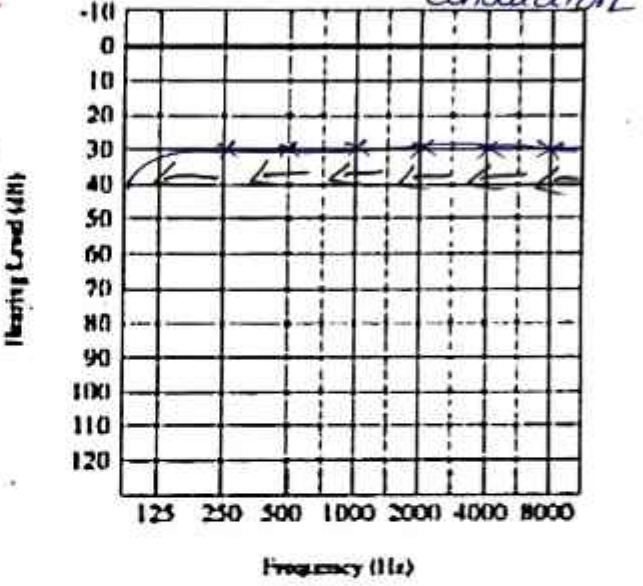
Name: MR. Sumit Kumar **Date:** 18/01/2025

Date of birth: 01/01/2000 **Case No:** 08

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

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A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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Name-Mr Sumit kumar **Date** –18/01/2023

Age/Sex-23/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
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Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

From

To

ALPHA H

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 08
2. Department/Work :
3. Name of the worker : MR. Sumit kumar
4. Age : 30
5. Sex : Male
6. Date of Examination : Vision Rt eye - 6/6, Lt eye - 6/6 } Both eyes extremely normal
7. Results :
   a) ISHIHARA CHARTS :
   identified all charts correctly
   b) ELDERS GREEN LANTERN :
   identified red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : vision and colour vision normal

ALPHA HOSPITAL

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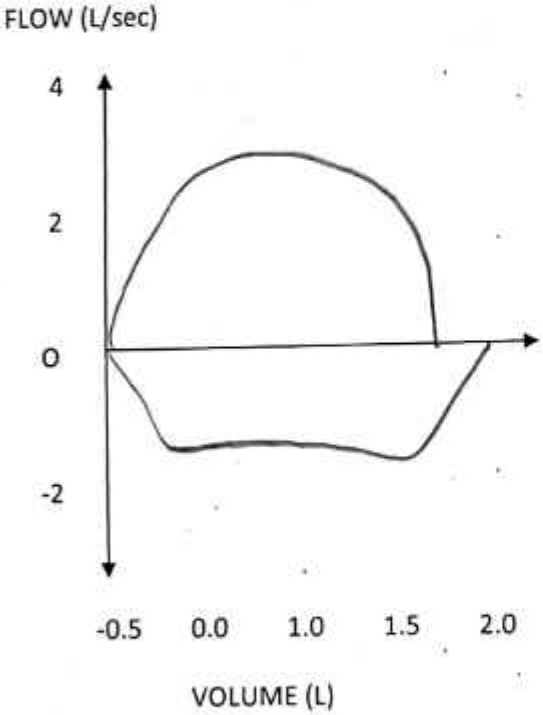
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. SUMIT KUMAR

AGE/SEX : 23/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	86%	88%	90%	92%	98%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220041
Name: Mr. Sumit kumar
Sex : male
Divisions:

DataTime: 2023-04-22 16:17
Age : 23
BP : / mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

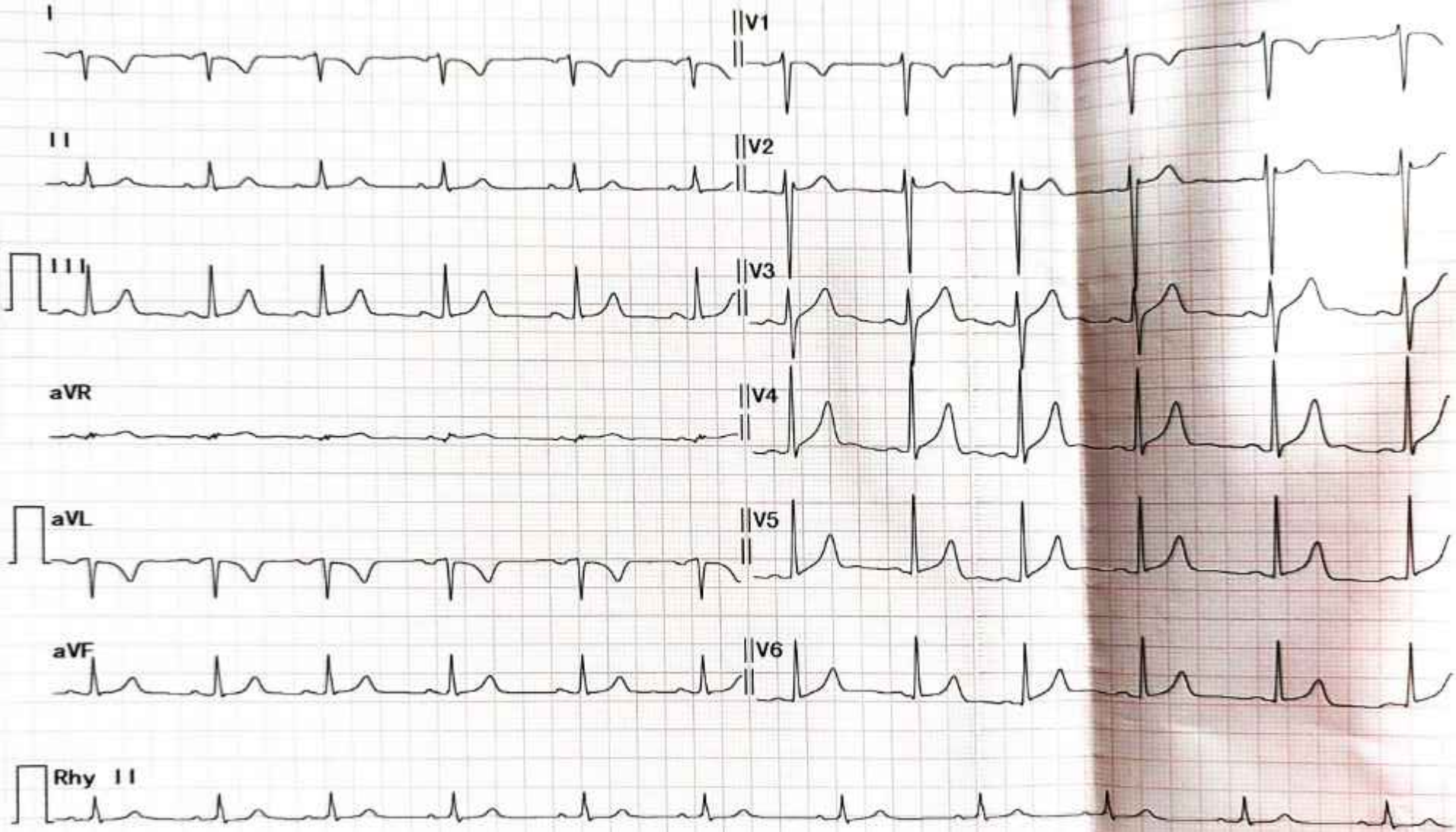
HR	64 bpm
P Dur/PR int	97 /149ms
QRS Dur	88 ms
QT/QTC int	378/395 ms
P/QRS/T axis	132/122/135 °

RV5/SV1 amp	1.441/1.012mV
RV5+SV1 amp	2.453mV
RV6/SV2 amp	1.117/1.734mV

Minnesota Code
4-2-0(aVL)
5-2-1(I,aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 64bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

A W CE

60

1445604/2025/ADMIN(SEZ)
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HNX HEALTHCARE PVT LTD

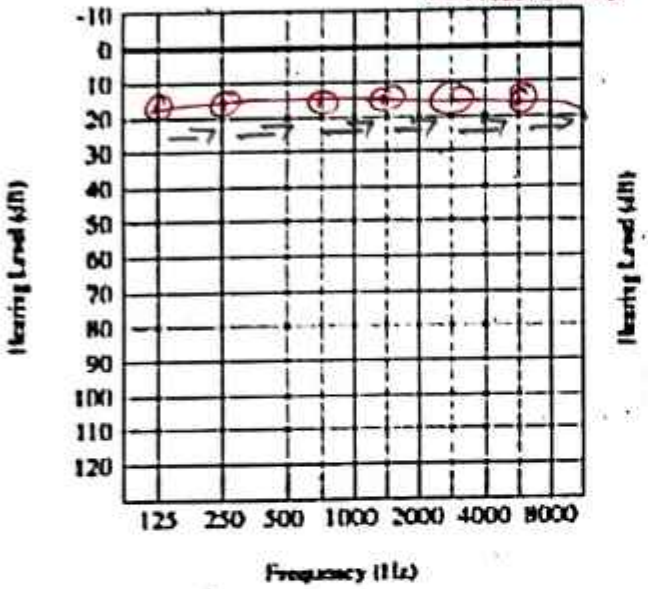
ALPHA HOSPITAL
REACHING UNREACHED

Pure-tone audiogram

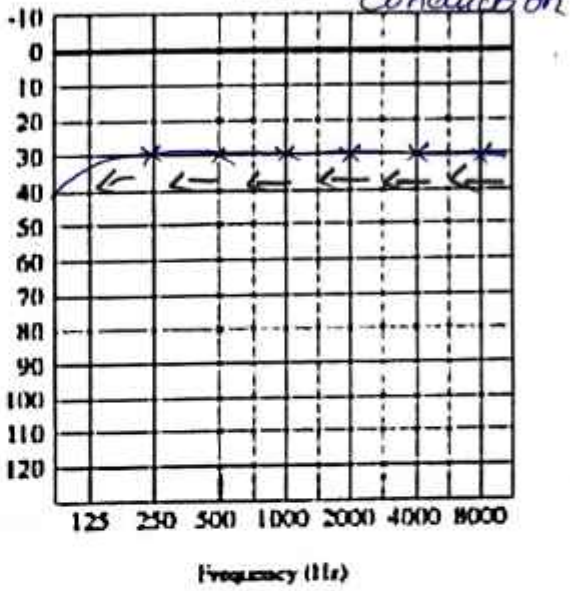
Name: Mr. Vashishtha Mahato **Date:** 18/01/2025

Date of birth: 01/01/1973 **Case No:** 09

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensibility with normal limits

ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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HEALTHCARE PVT LTD

ALPHA HOSPITAL
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Name-Mr.Vashishtha mahato

Date –18/01/2023

Age/Sex-50/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

From

ALPHA HOSPITAL
340 7A RAJU COMPLEX
BY[illegible]
PAPPAN[illegible]VILLAGE
SUMMI[illegible]601 201

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 09
2. Department/Work :
3. Name of the worker : Mr. vashishtha mahato
4. Age : 50
5. Sex : Male
6. Date of Examination : Vision (Rt eye - 6/6, Lt eye - 6/6) } Both eyes Extremely normal
7. Results :
   a) ISHIHARA CHARTS :-
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN :
   Identifies Red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : vision and colour vision normal

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HNX
HEALTHCARE PVT LTD

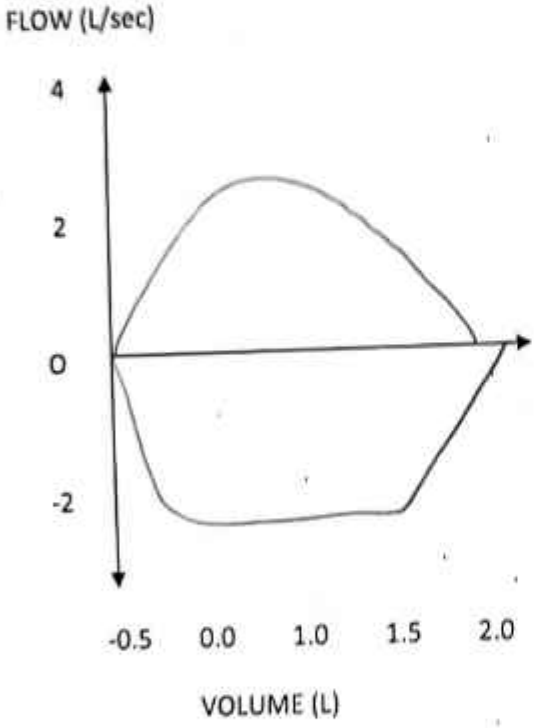
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. vashista mahato

AGE/SEX : 50/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80%	84%	86%	88%	90%	94%



Tester Signature

ALPHA HOSPITAL
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ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220040
Name: Mr. Vashishtha mahato
Sex : Male
Divisions:

DataTime: 2023-04-22 16:17
Age : 50
BP : mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

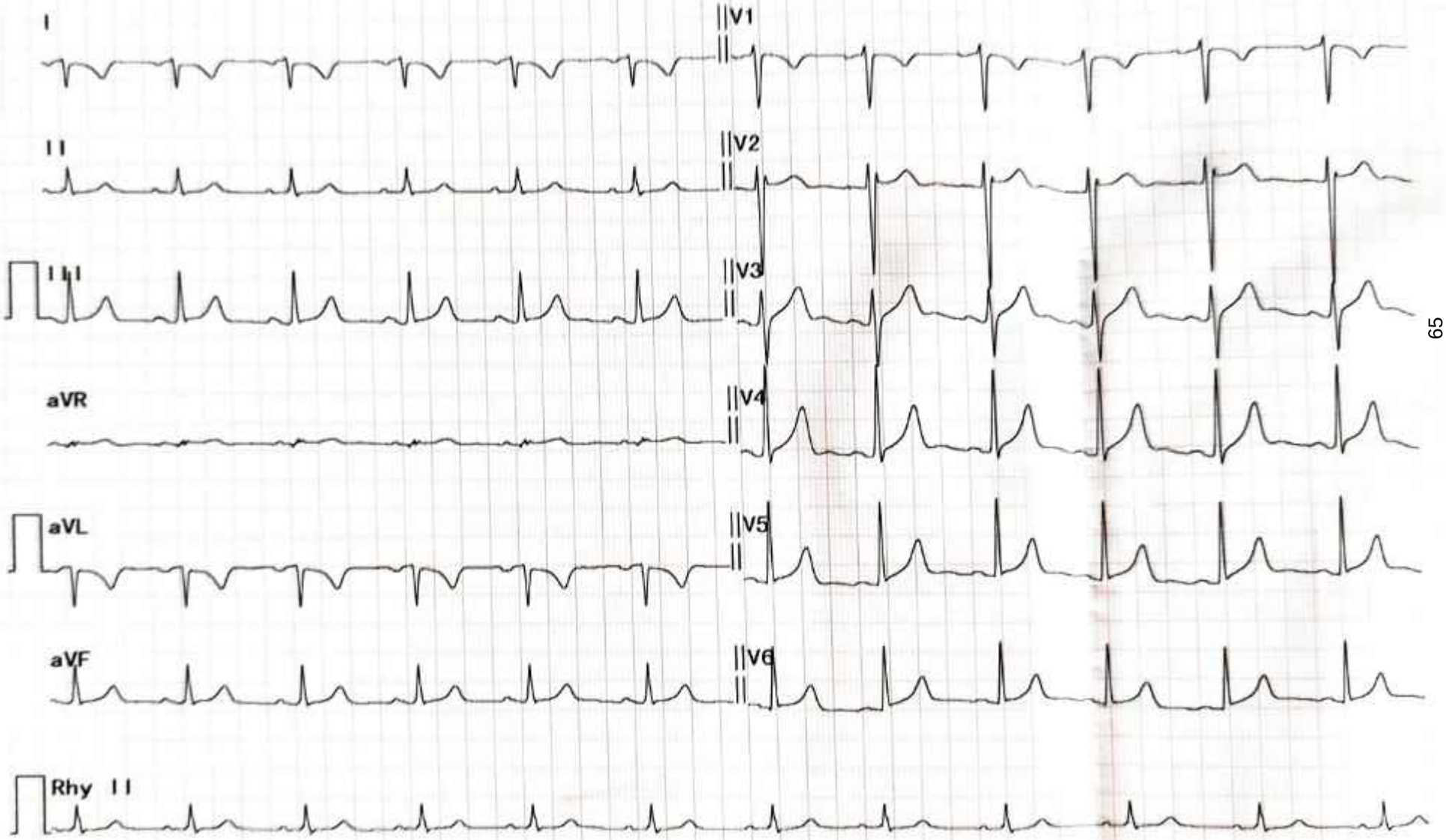
HR 70 bpm
P Dur/PR int 87 /147ms
QRS Dur 90 ms
QT/QTC int 372/409 ms
P/QRS/T axis 134/123/137 °

RV5/SV1 amp 1.443/0.994mV
RV5+SV1 amp 2.437mV
RV6/SV2 amp 1.109/1.726mV

Minnesota Code
4-2-0(1)
5-2-1(I, aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 70bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

1445604/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

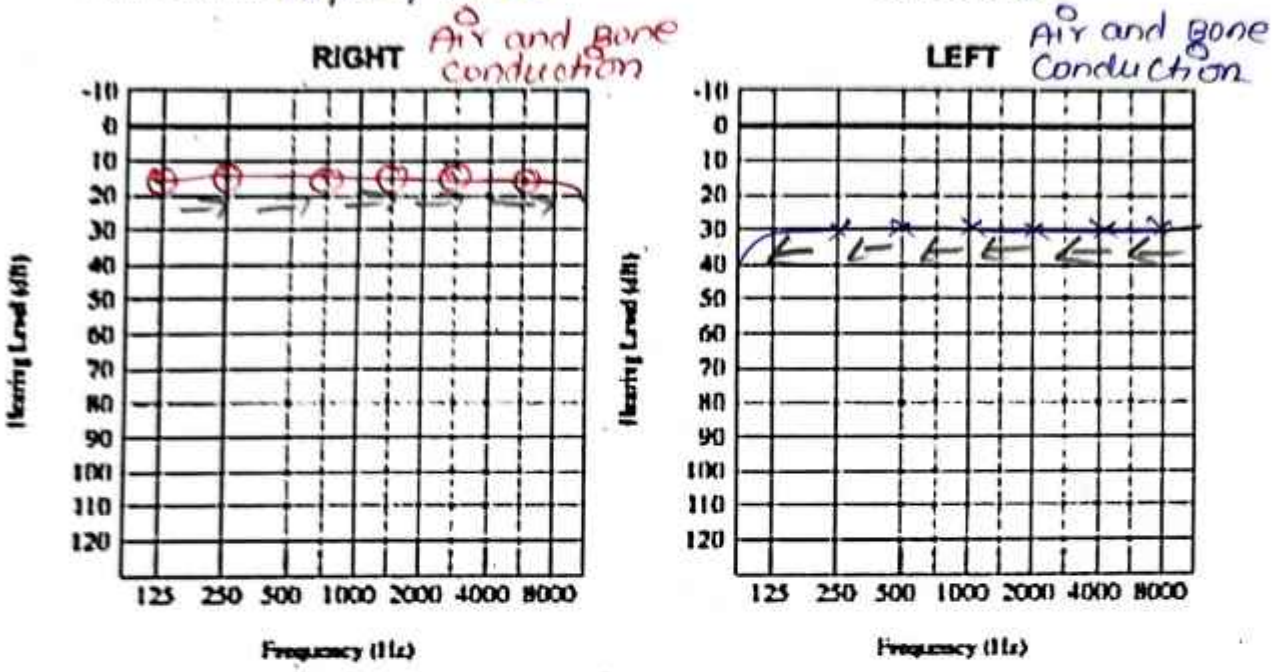
HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pure-tone audiogram

Name: Mr. Narsingh Mohanthy **Date:** 18/01/2023

Date of birth: 20/05/1976 **Case No:** 10



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ **Signature:** _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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HNX HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Narsingh mohanthy

Date –18/01/2023

Age/Sex-46/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

From

To

ALPHA HOSPITAL

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 10
2. Department/Work :
3. Name of the worker : MY. Narsingh mohanthy
4. Age : 46
5. Sex : Male
6. Date of Examination :
7. Results : Vision, Rt eye -6/6, Lt eye -6/6 } both eyes extremely normal

a) ISHIHARA CHARTS :-
Identifies all charts correctly
b) ELDERS GREEN LANTERN;
Identifies Red / Green / yellow colours correctly

8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colourvision normal

HNX HEALTHCARE PVT LTD

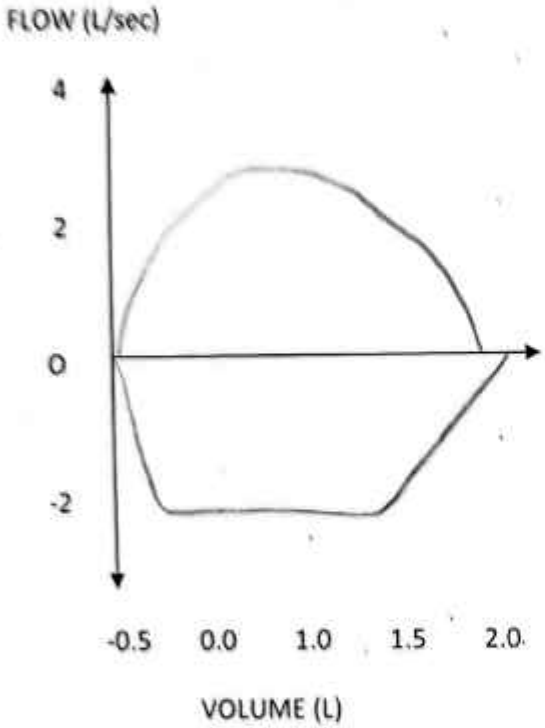
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. narsimh mohanthy

AGE/SEX : 46/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
86 %	85 %	89%	90 %	91 %	106 %



Tester Signature

ALPHA HOSPITAL
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ALPHA HOSPITALS
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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

ID : 2304220039
Name: Mr. Narsingh moharthu
Sex : male
Divisions:

DataTime: 2023-04-22 16:16
Age : 46
BP : / mmHg
Bed No. :

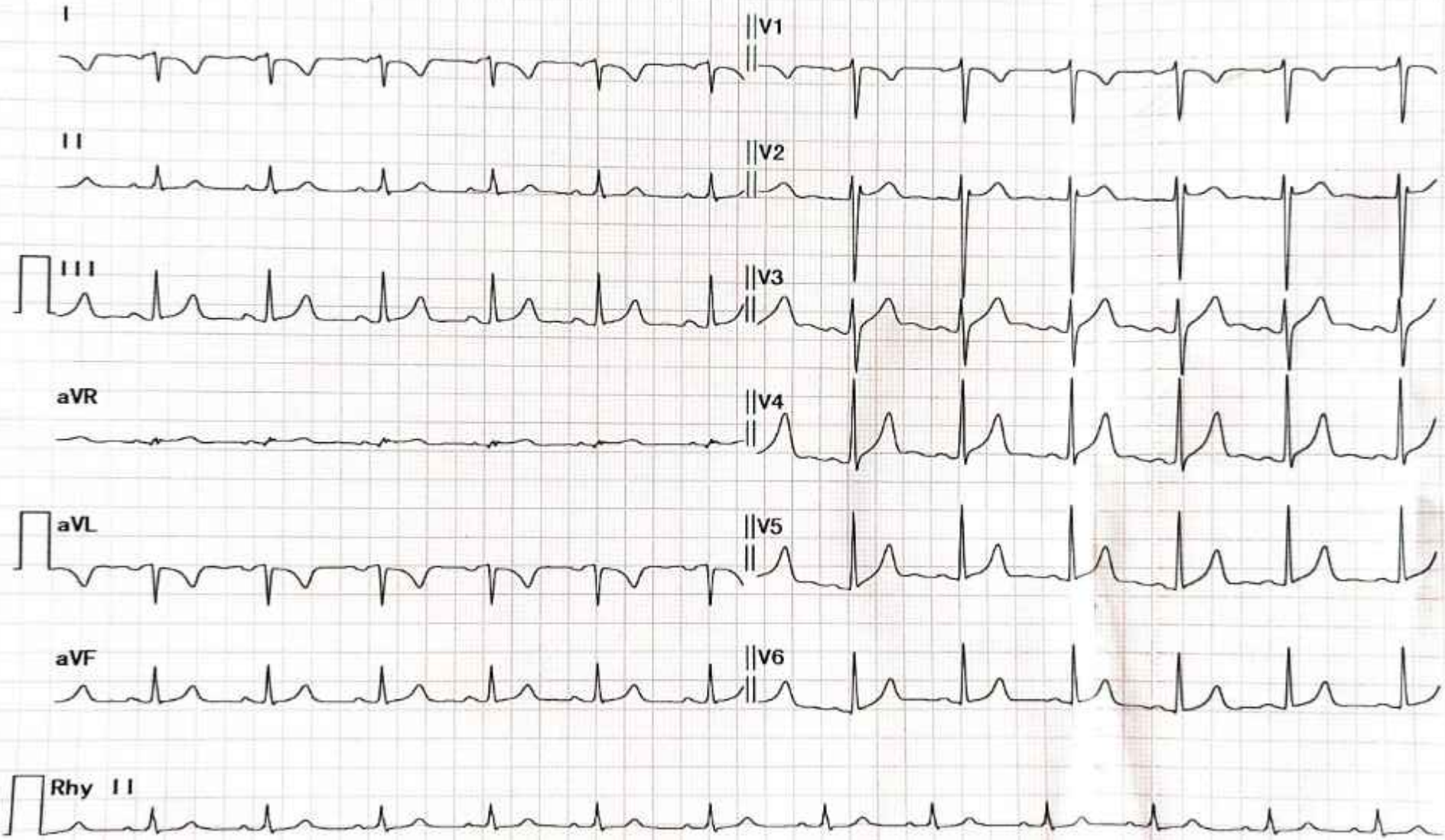
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	76 bpm	RV5/SV1 amp	1.430/0.988mV
P Dur/PR int	94 /146ms	RV5+SV1 amp	2.418mV
QRS Dur	92 ms	RV6/SV2 amp	1.095/1.708mV
QT/QTC int	372/420 ms		
P/QRS/T axis	124/125/135		

Minnesota Code
4-2-0(I)
5-2-1(I,aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

A...W CE

70

1445604/2025/ADMIN(GEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR [redacted](KS)-ENV, SCIENTIST B, RO[redacted] on 07/04/2025 04:19 pm

HNX HEALTHCARE PVT LTD

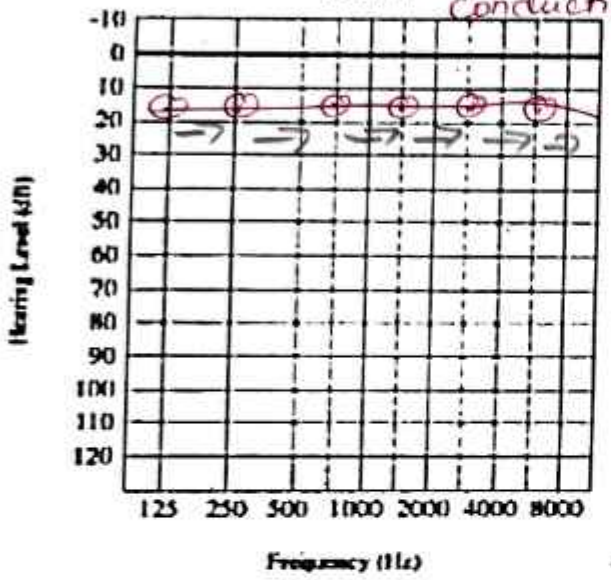
ALPHA HOSPITAL
REACHING UNREACHED

Pure-tone audiogram

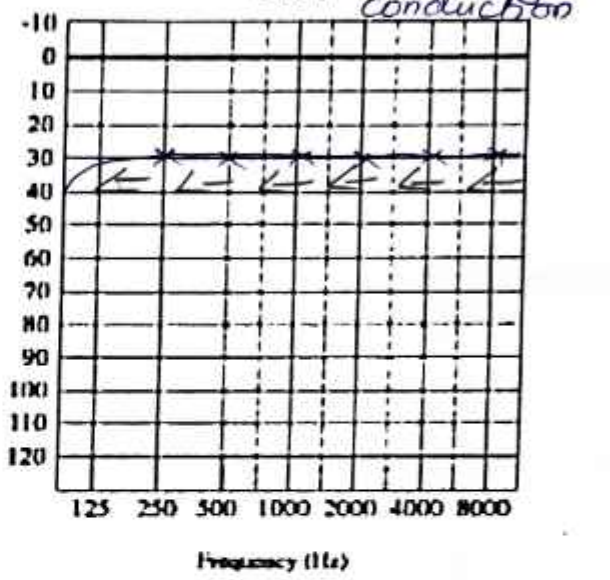
Name: Mr. Debasindandan pattakaik **Date:** 18/01/2023

Date of birth: 18/09/1999 **Case No:** 14

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⅃

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity is with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
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No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
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Name-Mr.Debakindandan pattakaik **Date** –18/01/2023

Age/Sex-23/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

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From **To**

ALPHA HOSPITAL
340 7A RAJU COMPLEX
BYPASS ROAD
[illegible]

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 15
2. Department/Work :
3. Name of the worker : Mr. DEbakindandan pattakaik
4. Age : 43
5. Sex : male
6. Date of Examination :
7. Results :
   Vision < Rt eye - 6/6, Lt eye - 6/6 } Both eye Extremely normal
   a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN:
   Identifies red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colourvision normal

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HNX
HEALTHCARE PVT LTD

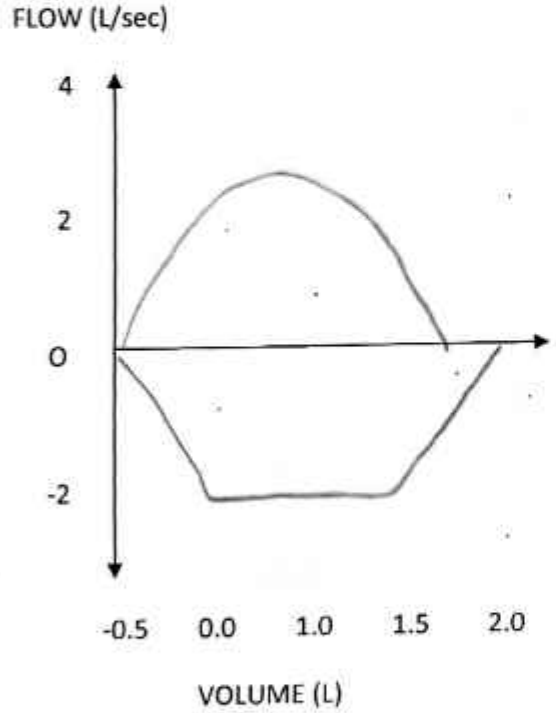
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. DEBAKINDANDON PATTAKIK

AGE/SEX : 23/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	90%	92%	96%	100%	102%



Tester Signature

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ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

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ID : 2304220035
Name: Mr. Debakindandan
Sex : male - pattabi
Divisions:

DataTime: 2023-04-22 16:14
Age : 23
BP : / mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	74 bpm
P Dur/PR int	92 /146ms
QRS Dur	91 ms
QT/QTC int	371/415 ms
P/QRS/T axis	186/126/134 °

RV5/SV1 amp	1.427/0.988mV
RV5+SV1 amp	2.415mV
RV6/SV2 amp	1.089/1.718mV

Minnesota Code
4-2-0(I, aVL)
5-2-1(I, aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 74bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec

Confirmed By:

75

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX
HEALTHCARE PVT LTD

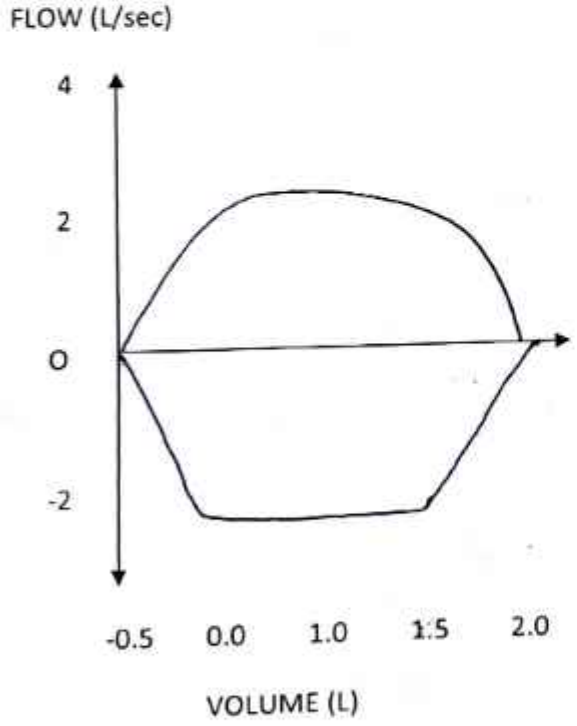
ALPHA HOSPITAL
REACHING UNREACHED

NAME : Mr. Rohit

AGE/SEX : 31/M

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
87%	90%	95%	98%	87%	78%



Tester Signature

ALPHA HOSPITAL
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ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
Generated from eOffice by PRADEEP KUMAR SUGUMAR, SciB(PKS)-ENV, SCIENTIST B, RO-SEZ on 07/04/2025 04:19 pm

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pure-tone audiogram

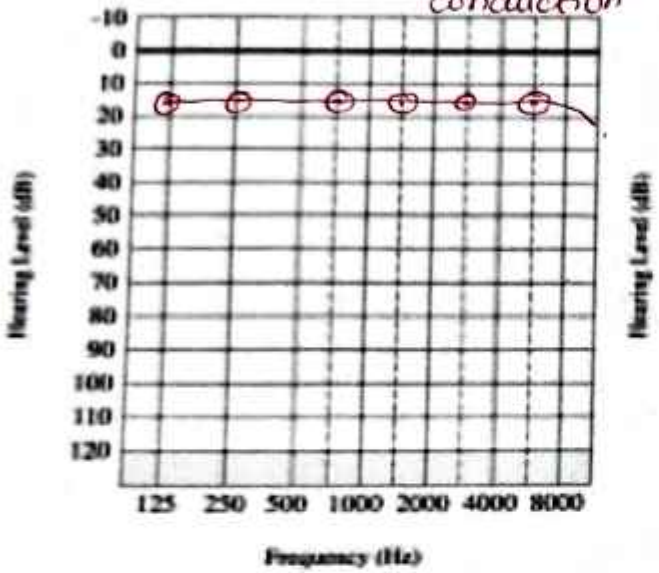
Name: MY. DORIL

Date: 18/01/2023

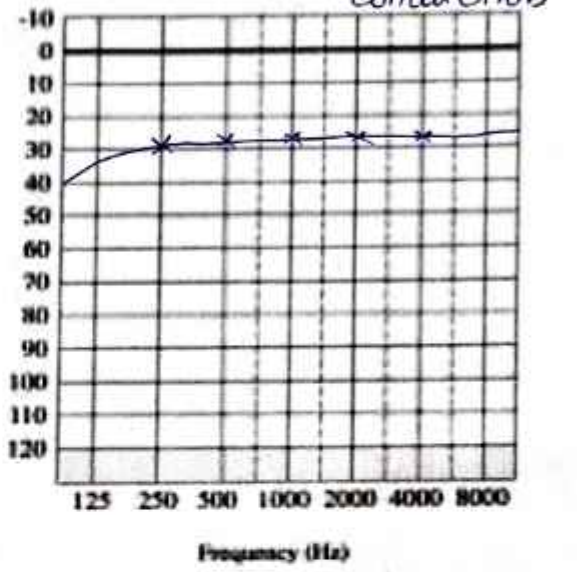
Date of birth: 28/03/1998

Case No:

RIGHT Air and Bone conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌟

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

Name-Mr.Rohit **Date** –18/01/2023

Age/Sex-31/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

LPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247672)
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ID : 2304040003
Name: Mr. Rohit
Sex : Male
Divisions:

DataTime: 2023-04-04 19:41
Age : 31
BP : / mmHg
Bed No. :

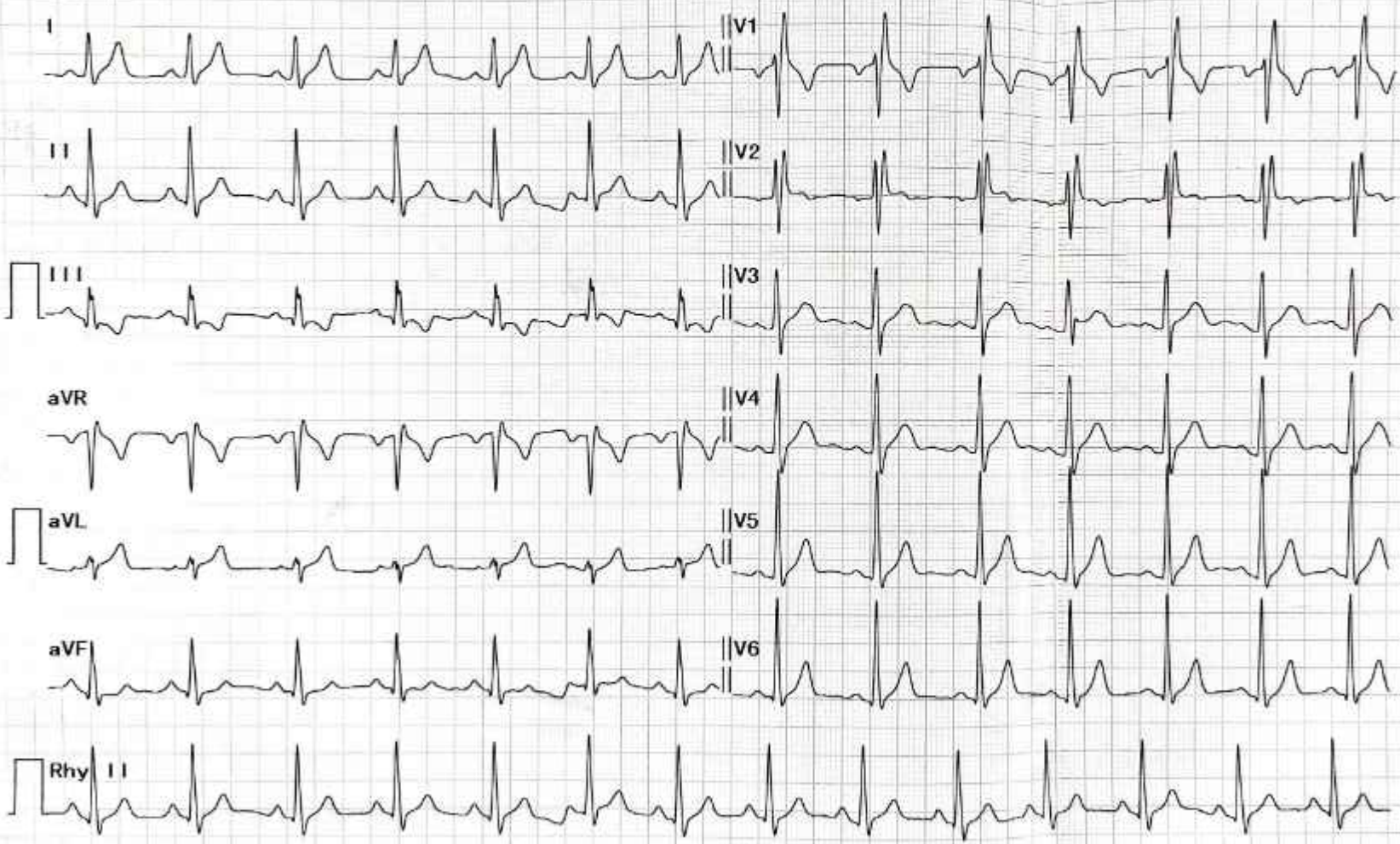
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR	88 bpm
P Dur/PR int	105/156ms
QRS Dur	120ms
QT/QTC int	327/393 ms
P/QRS/T axis	56/52/17 °

RV5/SV1 amp	2.102/0.967mV
RV5+SV1 amp	3.069mV
RV6/SV2 amp	1.913/0.707mV

Minnesota Code
7-2-0
1-3-4(III,aVF)

Diagnosis Info
800: Sinus Rhythm
504: CRBBB(Complete Right Bundle Branch Block)



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 88bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

79

1445604/2025/ADMIN(SEZ)
File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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From

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 02
2. Department/Work : Kanishk steels.
3. Name of the worker : Mr. Rohit
4. Age : 31
5. Sex : male
6. Date of Examination :
7. Results : Vision - Rt eye -6/6, Lt eye -6/5 } Both eyes normal.
   Colour vision (a) ISHIHARA CHARTS: Identifies all charts Correctly
   (b) EDRIDGE GREEN LANTERN Identifies Red/Green/yellow Charts correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist : Dr. Aaradhana eye clinic DY. Kalpana
10. Remarks : Vision, & Colour vision normal.

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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CSR,CER & EMP FUNDING SPENT DETAILS AS PER PUBLIC HEARING

Public consultation

The public hearing will be conducted as per the EIA Notification dated 14th September 2006, as well as its amendments dated 1st December, 2009. The press notification indicating date and venue of the Public hearing was issued by the Tamil Nadu Pollution Control Board (TNPCB) in two leading newspapers in The New Indian Express (English) and Dinamani (Tamil) disclosing project details inviting suggestions, views, comments and objections from the public regarding proposed expansion of steel melting plant and rolling mill.

Public Hearing

The public hearing meeting for the Proposed Expansion of Steel Melting Plant and Rolling Mill from 36,000 TPA to 83,000 TPA of MS Billets and 54,000 TPA to 76,000 TPA of Rolled Steel Products by M/s. Kanishk Steel Industries Limited was held on 09.07.2019 at EPIP Building (AO Block), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District as per Environmental Impact Assessment Notification dated 14th September 2006.

The press notification indicating date and venue of the public hearing was issued by Tamil Nadu Pollution Control Board on 1st June 2019 in "Dinamani" (Tamil daily) and "The Indian Express" (English daily) with project details inviting suggestions, views, comments and objections to the project related to the establishment of M/s. Kanishk Steel Industries Limited at Pedikuppam Village, SIPCOT Industrial Complex, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.

Public Hearing meeting was chaired by Mr. A. Rajgopalan, District Revenue Officer, Tiruvallur District, District Environment Engineer (DEE), TNPCB convened the meeting and requested the representative of M/s. Kanishk Steel Industries Limited to explain the salient features of project and specific reference to the impacts of project to the environment and its management measures.

After the project explanation, the District Environment Engineer invited the public to express their concerns, views and suggestions on this proposal.

Minutes of Public hearing is tabulated in Table-1

TABLE -1 : ISSUES RAISED BY PARTICIPANTS DURING PUBLIC HEARING

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
1	Mr.Ravi Edison Raj, President Under Ground Water Preservation Association, Balakrishnapuram, New Gummidipoondi.	Mr. Ravi Edison Raj requested for the details of Solid Waste Management Scheme of Kanishk Steels industries.	The proponent explained that the Solid waste generated in the plant such as Scrap, mill scale, end cuttings are being reused in the melting process. The furnace slag and ash generated are sold to the fly ash brick manufactures. Hazardous waste such as Solar pan residue and oil bearing cotton waste generated from the plant is being collected and disposed to CTSDF, Gummidipoondi. No waste were dumped outside the plant premises and the same practice will be followed for the expansion activities also.	
2	Mr. Karthick , Environmental Activist, Nagaraja kandigai.	In this area the quantum of particulate matter has reached 94.4 %. What are the chances of reduction in the quantum of Particulate matter after the proposed expansion of this company?	Technological up gradation will be enhanced in proposed expansion of the plant to reduce the air emission by implementing direct hot rolling technology. The reheating furnace will be decommissioned and therefore coal will not be consumed in the expansion process, with this the pollution load automatically comes to the lower level. The air emission are maintained within the prescribed limits of TNPCB. The pollution control equipment are periodically checked and maintained. Also, the Online monitoring system for air emission will be installed and connection shall be established TNPCB Air care centre.	Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund.

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
				The EMP cost and Bank account with head wise expenses statement of the investment – Attached document in Annexure -I
3	Mr.Ravi Edison Raj, President Under Ground Water Preservation Association, Balakrishnapuram, New Gummidipoondi.	For the past the thirty years this region got severely affected due to the emission of air pollution. This company has exploited the water resources. A Part of Thamaraikulam Lake has been encroached by the company, the entire ground water has become affected by Pollution and has become toxic. Due to this many Persons are affected with the renal problems. I have written several letters to the chief Minister in this regard. Even presently this air pollution within a radius of 10 kilometers is above the prescribed levels. More than 500 labors are died in this company. Even the basic necessity of the labours are not Provided. No permanent employees have been engaged in this company. In case anyone is made permanent employee, show me the details. He requested for the details of disposal of Solid waste.	KSIL sources the water from the SIPCOT supply and does not have any bore well inside the premises there by not utilizing the groundwater. The waste water generated in the process is being treated with the proper treatment system and reused again in the process. The domestic waste water is treated in the STP and used for the greenbelt development activity. Therefore no waste water is discharged outside the plant premises and thereby ensuring the zero discharge. Specialized skilled labors are required in the hot zone areas like Furnace, these labors are not readily available in Tamil Nadu and other state labors are employed in these area. Our sincere efforts to train local talents in these area have ended up either in limited success or failed. For this reason, specialized skilled employees with experience from other steel units have been engaged. All persons engaged inside the plant are paid in accordance with their skill, performance and	

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		He said that whether 2.5 % Corporate Social responsibility has benefited the backward people in close proximity. Many peoples were affected by the pollution emitting from this factory. It has come to the knowledge from a details obtained under the Right to information act that the ground water in this area has been affected by the factories. A Part of Thamaraikulam Lake has been encroached upon. The air pollution emitting from this factory is the cause of Kidney damage to many peoples in this area. Regarding this I wrote more than 1000 complaints to Tamilnadu Pollution Control Board but I won't get any reply from their side. This company has not given the proper information about public hearing through drumbeaters. I condemn the failure to convey the details regarding the proceedings. This proceeding is not a genuine public opinion hearing proceeding hence I request to hold this hearing on another day.	experience. Company neither discriminate while employing the labors nor while paying the salary. Personal Protective equipments are provided for the all the employees. The advertisement regarding the Public hearing was published in two daily newspaper (The New Indian Express and Dina Mani) before the public hearing. Management proposes to take part in various CSR activities like revamping of Thamarai lake, water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. 2.5% of the project cost will be allocated for CSR activity.	The CSR activities for the amount of 43.22 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like ● Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		About 15 years ago the furnace slag produced by the factories where dumped on road side for the purpose of laying roads. I have seen the people collecting iron particles from the dumping. This company evacuates furnace slag to the extent of 30 % of its total production quantity and he questioned about disposal of solid waste. There are more than 500 North Indians working in the Industry. They are treated like a masonry slaves. Even the basic necessity of the nearby villages like water supply pipes, water purification, Bitumen roads etc are not provided. The company is not worrying about the death of nearby Srilankan refugees. I need the environmental impact assessment report. Thamaraikulam Lake has a surface area of 500 acres, now it is decreased to 48 acres because of encroached by the industries. Gummidipoondi now has become a dumpyard. Underground water is completely damaged. Due to intrusion of seawater, ground water		Nagar, Gummidipoondi Elementary school drinking water bore. Attached CSR Activity document in Annexure -II The CER activities for the amount of 17.46 lakhs have been spent for Improvement and Rejuvanation of Thamrai Eri Pond and Green Development Activity Trees Planted in and Around of Thamrai Eri Lake & at 15 Ward near Village Ganganthotti Drinking Water Facility Provided Attached Agreed to Complied undertake letter as Annexure –III

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		has become salty. I don't have the habit of reading newspaper like Dinamani and The Indian express daily. According to me, this has happened illegally. Air, Water, land and food of Gummidipoondi area is became polluted and toxic. Last time ,Collector assured that permission will not given to Kamachi steels but now I am not able to believe how collector gave permission to Kamachi steels and are running 30 T furnace. This is not a Public hearing, It is happening only for name sake. He requested the assembled general public to register their opinion.		
4	Mr. Karthick Environmental Activist, Nagaraja kandigai.	He questioned Dr.S.Muneeswaran, What are the steps taken by the company to preserve nearby water resources? What are the plans, to spend allocated 2.5% of CSR Activities? And then what is mean by 45.25 KLD? What is KLD?	Management proposes to take part in various CSR activities like revamping of Thamarai lake water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. 2.5% of the project cost will be allocated for CSR activity.	'The CSR activities for the amount of 43.22 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like ● Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
				given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. Attached CSR Activity document in Annexure -I The CER activities for the amount of 17.46 lakhs have been spent for Improvement and Rejuvanation of Thamrai Eri Pond and Green Development Activity Trees Planted in and Around of Thamrai Eri Lake & at 15 Ward near Village Ganganthotti Drinking Water Facility Provided Attached Agreed to Complied undertake letter as Annexure –II

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
5	Mr. Venkatesan Town Panchayat Member, Gummidipoondi.	I was not properly informed about the public opinion. So many accidents are taking place in this company but they are not intimated. This company has done nothing for the benefit of people living around the factory. He added that he requested fund for temple but company said that we will offer only Kungumam and turmeric. Company does not provide any financial help. So this proceeding should be cancelled and held on some other day.	The advertisement regarding the Public hearing was published two daily newspaper (The New Indian Express and Dina Mani) before the public hearing.	
6	General Public Peddikuppam.	The information regarding the public hearing was not passed to public by drum beaters therefore the meeting has to be scheduled on the other day. • The industry peoples are benefitting more from running the plant. • In this Industrial estate, more than 500 labors are died but Government officials not even worried about deaths. Many peoples were affected by the pollution emitting from this factory. • We had written more than 1000	The advertisement regarding the Public hearing was published two daily newspaper (The New Indian Express and Dina Mani) before the public hearing. The total manpower requirement of the existing plant is about 272 employees; In proposed expansion, the management have planned to give job opportunities about 78 workers, Staffs in the nearby villages based on their skill and qualification. Employees will be medically examined.. The Management informed that the Air Pollution Control (APC) measures have been already installed for the existing	Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		complaints to the TNPCB but we don't receive any response form them they don't even pick the telephone calls of us. • We didn't got the prior information regarding the conductance of Public hearing. • The emission from the industries causes various health effects such as respiratory problems to the children and many deaths has been experienced in the past. • No actions are taken for the death of employees in the industries. • There are no Environmental protective measures in Gummidipoondi. Effluent is discharged in the nearby villages. • Peoples of Nagaraja kandigai boycotted the parliament election due to Air pollution in his area. Tamilnadu pollution control board working for the favor of Industry not for the people. • Industries are located in the Gummidipoondi but I don't know why they should use and declare Peddikuppam area as their location. • The announcement of the Public hearing has to be given properly, If	activity to control smoke and other gaseous emission. However existing reheating furnace connected APC measures will be replaced with new induction furnace in the expansion activities for which wet scrubbe and stack will be provided as APC measures so as to bring down the emission level within the limit prescribed by the board. Waste water from the plant is being treated with suitable treatment system. Hence, No water is being discharged outside the plant premises. Zero effluent discharge is maintained in a stringent way in the industry. No such incidents where taken place. The safety of employees are ensured and also personal protective equipments (PPE, First Aid Box etc.,) are being provided. Further all the	lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost and Bank account with head wise expenses statement of the investment – Attached document in Annexure 1

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		not we are ready to provide the funds for advertising the announcements of the meeting. • In the Past, Environmental Minister has attended the Public hearing in our region. Only four members participated in the meeting. In order to show their opposition to the meeting no one had participated and boycotted the meeting. • This Industry is using more than 45000 liters of water and they are not recycling the wastewater. • We don't know to see the audio and video clippings in the websites. • The approvals are given to the industries by TNPCB even though which are not in operation. • We don't have belief in Tamil Nadu Pollution Control Board .So Meeting needs to be cancelled. • This company uses rubber like raw materials to produce steel. Due to this process high amount of Sulphur- dioxide is mixed with air and it creates damage to peoples. • In Night time, Emission of air pollution is high compared to day time and pollutants are left out in		

S.No.	Issue Raised By	Comment/ Concern raised	Reply by proponent	Project Fund Spent Details
		the night. This Industry using the • Groundwater without getting any permission. • The details regarding the meeting has to be telecasted in the Medias. • The people started to condemn against the meeting. • In Tamil Nadu how could you supposed to give advertisement in the English daily newspaper. • This Public Hearing is not informed properly so this proceeding should be cancelled and held on some other day.		

ANNEXURE - I

ENVIRONMENTAL MEASURES PLAN

File No. EP/12.1/2024-25/SEIAA/98/TN (Computer No. 247272)
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KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

ENVIRONMENTAL MEASURES PLAN

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	Air pollution control system	110.72
2	Water pollution control system	40.9
3	Environmental Monitoring	4.13
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	170.89

Source: KSIL, Gummidpoondi

KANISHK STEEL INDUSTRIES LTD

for

Director

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

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Air Bill				
S NO	Inv NO.	Party Name	Amount	
1	PK423209	PK Enterprises	720272	
2	PK423203	PK Enterprises	929368	
3	PK423202	PK Enterprises	803462	
4	PK423201	PK Enterprises	918335	
5	PK423206	PK Enterprises	1134452	
6	PK423207	PK Enterprises	1166902	
7	PK423204	PK Enterprises	1016983	
8	PK423208	PK Enterprises	993619	
9	PK423207	PK Enterprises	1166902	
10	TI/18	SR Enterlink	200600	
11	EX/23-24/2149	GSE Filter Pvt Ltd	266000	
12	EX/23-24/2361	GSE Filter Pvt Ltd	21616	
13	010	Mianzi Enterprises	9511	
14	CPS230688	Chennai Pneumatics	122062	
15	UE/24-25/150	Universal Equipments	123900	
16	119	A Gunaseeli	37088	
17		Kalyan Mechanical Works	200000	
18	PGS-095	Power Guard System	9440	
19	B 009	SSS Engineering & Contracto	1030941	
20		Chennai Pneumatics	200600	
	TOTAL		**11072053**	

21	1494/23-24	Nevco Engineers Pvt Ltd	413000	Environment

Water

S.NO	Inv No	Party Name	Amount
1	PCTEL/222/23-24	Paltech Cooling Tower	2665620
2	PCTEL/447/23-24	Paltech Cooling Tower	587726
3	PCTEL/637/23-24	Paltech Cooling Tower	49896
4	005	Viswa Equipment Pvt Ltd	787500
			4090742

Recurring cost

S.no	Inv No	Party Name	Amount
1	418	RS Electrical	324500
2	4663	TNT Paints	9723
3	4699	TNT Paints	27352
4	4700	TNT Paints	23293
5	4705	TNT Paints	17936
6	4795	TNT Paints	40781
7	4812	TNT Paints	24214
8	4889	TNT Paints	9204
9	4882	TNT Paints	18573
10	4916	TNT Paints	13339
11	UE/24-25/150	Universal Equipment	123900
12	790	GSE Filter	10384
13	54	Marine Machinery	49560
14	10569	Wadhawan Engineers	167395
15	10731	Wadhawan Engineers	33078
16	241	Chennai Pneumatics	67713
17	18	Chennai Pneumatics	21240
18	272	Chennai Pneumatics	9878
19	CPS230688	Chennai Pneumatics	122062
Total			**1114125**

MANISHA STEEL INDUSTRIES LTD

Director

Bill of Supply

Earth Sense Agro Products Pvt Ltd Farm
R O. 43/1, Besant Avenue Road, Adyar, Chennai-20
B O 1/185, Janappan Chatram Cross Road
Alinjivakkam Village, Ponneri Tk
Tamil Nadu - 600067, India
GSTIN/UIN 33AABCH7654R1Z0
State Name Tamil Nadu, Code 33
Consignee (Ship to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN 33AABCK2367G1ZS
State Name Tamil Nadu, Code : 33
Buyer (Bill to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN 33AABCK2367G1ZS
State Name Tamil Nadu, Code : 33

Invoice No	Dated
CS167/24-25	**10-Jan-25**
Delivery Note	Mode/Terms of Payment
Reference No. & Date	Other References
Buyer's Order No	Dated
Dispatch Doc No	Delivery Note Date
Dispatched through	Destination
Terms of Delivery	

Sl No	Description of Goods	HSN/SAC	Quantity	Rate (Incl. of Tax)	Rate	per	Amount
1	**Peltophorum**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
2	**Badham**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
3	**Gulmohar**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
4	**Pungai**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
5	**Spethodia Big**	0601	**20 Nos**	290.00	290.00	Nos	**5,800.00**
6	**Sapota Sapling**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
7	**Madulai**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
8	**Guava Plant**	0601	**5 Nos**	200.00	200.00	Nos	**1,000.00**
9	**Water Apple**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
10	**Potting Mix 20 Kg Bag**	3101	**200 Bag**	95.00	95.00	Bag	**19,000.00**

Total **₹ 38,000.00**
E. & O.E

Amount Chargeable (in words)
Indian Rupees Thirty Eight Thousand Only

HSN/SAC	Taxable Value
0601	19,000.00
3101	19,000.00
Total	**38,000.00**

Tax Amount (in words) **NIL**

Company's Bank Details
Bank Name : **State Bank of India**
A/c No. : **35744653932**
Branch & IFS Code : **JANAPPAN CHATHIRAM & SBIN0007594**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for Earth Sense Agro Products Pvt Ltd Farm

For Earth Sense Agro Products Pvt. Ltd.
Authorised Signatory

This is a Computer Generated Invoice

Authorised Signatory

SBI

Account Name	KANISHK STEEL INDUSTRIES LIMITED
Address	OLD NO.4 NEW NO.7 THIRU-VI-KA 3RD ST ROYAPETTAH HIGH ROAD MYLAPORE-600004 OLD NO.4 NEW NO.7 THIRU-VI-KA 3RD ST
Date	29 Apr 2024
Account Number	00000042267303781
Account Description	CA-PLATINUM-PUB-OTH-ALL-INR
Drawing Power	0.00
Interest Rate(% p.a.)	0.0000
MOD Balance	0.00
CIF No.	78321016803
IFS Code	SBIN0001793
MICR Code	600002043
Nomination Registered	No
Balance as on 1 Oct 2023	0.00

Account Statement from 1 Oct 2023 to 31 Mar 2024

Txn Date	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
10 Oct 2023	10 Oct 2023	BY TRANSFER-RTGS UTR NO: HDFCR52023101094394263-KANISHK STEEL INDUSTRIES LIMITED	TRANSFER FROM 3199856044300 / KANISHK STEEL INDUSTRIES LIMITED		45,00,000.00	45,00,000.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077016433-494811 GSE FILTER PRIVATE LIMITED	494811 GSE FILTER PRIVATE LIMITED	3,84,450.00		41,15,550.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077073383-494812 SSS ENGINEERING AND CONTRACTORS	494812 SSS ENGINEERING AND CONTRACTORS	10,13,467.00		31,02,083.00
11 Oct 2023	11 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101177290337-494813 S R ENTERLINK	494813 S R ENTERLINK	2,00,600.00		29,01,483.00
16 Oct 2023	16 Oct 2023	CHQ TRANSFER-NEFT UTR NO: SBIN323289810702-494814 KALYAN MECHANICAL WORKS	494814 KALYAN MECHANICAL WORKS	1,96,000.00		27,05,483.00
27 Oct 2023	27 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023102780344376-494816 GSE FILTER PRIVATE LIMITED	494816 GSE FILTER PRIVATE LIMITED	2,66,000.00		24,39,483.00
1 Nov 2023	1 Nov 2023	TO CLEARING-Chq No. 494815 INB AGUNASEELI-494815	494815	37,088.00		24,02,395.00
7 Nov 2023	7 Nov 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023110782578851-494817 KALYAN MECHANICAL WORKS	494817 KALYAN MECHANICAL WORKS	2,00,000.00		22,02,395.00
23 Nov 2023	23 Nov 2023	CHQ TRANSFER-NEFT UTR NO: SBIN523327311970-494818 KALYAN MECHANICAL WORKS	494818 KALYAN MECHANICAL WORKS	94,000.00		21,08,395.00

ate	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
19 Dec 2023	19 Dec 2023	TO CLEARING-Chq No. 494819 HDF GSE FILTER PRIVATE LIMITE-494819	494819	21,616.00		20,86,779.00
3 Jan 2024	3 Jan 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024010393713672-494820 NEVCO ENGINEERS PVT LTD	494820 NEVCO ENGINEERS PVT LTD	4,13,000.00		16,73,779.00
2 Feb 2024	2 Feb 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024020299796536-494822 R S ELECTRICAL WORKS	494822 R S ELECTRICAL WORKS	3,24,500.00		13,49,279.00
12 Mar 2024	12 Mar 2024	A/C Keeping Chgs--		321.65		13,48,957.35

Please do not share your ATM, Debit/Credit card number, PIN and OTP with anyone over mail, SMS, phone call or any other media. Bank never asks for such information.

**This is a computer generated statement and does not require a signature.

KANISHK STEEL IND LTD (2024-25)

Old No 4 New No 7,
Thiru-Vi Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004
E-Mail : accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Apr-24 to 13-Feb-25

Date		Particulars	Vch Type	Vch No.	Debit	Credit
1-Apr-24	Cr	**Opening Balance**			**13,48,957.35**	
29-Apr-24	Dr	**CHENNAI PNEUMATICS**	BANK PAYMENT	CH NO: 494823		1,50,000.00
17-Jun-24	Dr	**POWER GUARD SYSTEM**	BANK PAYMENT	CH NO: 494824		9,440.00
24-Jun-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIJUN24/CA-001		10,384.00
25-Jun-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA-002		9,511.00
26-Jun-24	Dr	**UNIVERSAL EQUIPMENTS**	BANK PAYMENT	SBIJUN24/CA-003		75,000.00
28-Aug-24	Dr	**ANGALAMN ENGINEERING AND TECH**	BANK PAYMENT	SBIAUG24/CA-001		1,17,233.00
30-Aug-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA		18,290.00
	Dr	**ANGALAMN ENGINEERING AND TECH**	BANK PAYMENT	SBIAUG24/CA-002		2,12,280.00
12-Sep-24	Dr	**NEVCO ENGINEERS PVT LTD**	BANK PAYMENT	SBISEP24/CA-001		1,00,300.00
23-Dec-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIDEC24/001		1,00,016.00
					13,48,957.35	8,02,454.00
	Dr	**Closing Balance**				5,46,503.35
					13,48,957.35	**13,48,957.35**

KANISHK STEEL IND LTD (2023-24)

Old No.4,New No 7,
Thiru-Vi-Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004.
E-Mail : accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Oct-23 to 31-Mar-24

Date		Particulars	Vch Type	Vch No.	Debit	Credit
10-Oct-23	Cr	HDFC BANK- CURRENT A/C (NEW)	Contra	SBI/CONTRA1	45,00,000.00	
	Dr	SSS ENGINEERING & CONTRACTORS	BANK PAYMENT	CH NO:494812/RTGS		10,13,467.00
	Dr	S R ENTERLINK	BANK PAYMENT	CH NO:494813/RTGS		2,00,600.00
	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494811/RTGS		3,84,450.00
16-Oct-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494814/RTGS		1,96,000.00
21-Oct-23	Dr	A. GUNASEELI - CONTRACTOR	BANK PAYMENT	CH NO:494815/CHEQ		37,088.00
27-Oct-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494816/RTGS		2,66,000.00
7-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494817/RTGS		2,00,000.00
23-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494818/RTGS		94,000.00
18-Dec-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494819/RTGS		21,616.00
3-Jan-24	Dr	NEVCO ENGINEERS PVT LTD	BANK PAYMENT	CH NO:494820/RTGS		4,13,000.00
2-Feb-24	Dr	R.S. ELECTRICAL WORKS	BANK PAYMENT	CH NO:494822/RTGS		3,24,500.00
12-Mar-24	Dr	BANK CHARGES	BANK PAYMENT	BANK CHARGES		321.65
					45,00,000.00	31,51,042.65
	Dr	Closing Balance				13,48,957.35
					45,00,000.00	**45,00,000.00**

ANNEXURE - II

LETTER OF AGREED TO COMPLIED EC CONDITONS UNDERTAKE FOR CSR ACTIVITY

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Date: 18/02/2024

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on 13.02.2025.

With reference to the inspection of M/s Kanishk Steel Industries Limited at Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District, conducted by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO,

We hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

GENERAL CONDITIONS

SI.NO. 8: CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within5 km of the site and in constant consultation with the village Panchayat and the District Administration.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD

Old No.4, New No.7, Thiru-Vi-Ka III Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919719
E-mail : info@kanishksteels.in

ISO 9001 : 2008

M/s Kanishk Steel Industries Limited

Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District -601201

CSR ACTIVITIES

Sl.No	Social Project Completed	Cost (Rs. In Lakhs)
1.	PRIMARY SCHOOL VIVEKANDHA NAGAR GUMMIDIPOONDI – 601201. DRINKING WATER BORE AND TANK INSTALLED	1.4
2.	SCHOOL BAG KITS GIVEN TO THE PRIMARY SCHOOL	0.15
3.	AROUND 600 TREES PLANTED IN AND AROUND OUR COMPANY AND TREE GUARDS (MESH) GIVE TO GUMMIDIPOONDI TOWAN PANCHYT	1.358
4.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2022-2023	14.69
5.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2023-24	19.02
6.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2024- TILL JULY	6.60
	Total	43.22

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sri Venkateshwara's

Cell : 94449 36789

Date : 24.11.2017

STEEL INDUSTRIES LTD.

BORE AT GOVT ELEMENTARY SCHOOL

Sub: Bill for Borewell 150 FEETS AT SCHOOL.

Description of Work / Materials	Rate / Qty	Amount
Drilling charge for Bore Well	Per Ft Rs. 200/150	30,000
Bore Reaming, Pipe Erection, and Pebbles Filling	Per Ft Rs. 60/150	9,000
PVC Casing Pipe	Per Ft Rs. 210/150	31,500
Slot Making Charge	Per Ft Rs. 15/100	1500
End Cap	1 No Rs. 250/1	250
Bentonite (Mud Powder)	1 Bag Rs. 500/5	2500
Pebbles (Jally)	1 Unit Rs. 15000/1.5	22500
Transporation charges for pipes & Pebbles etc.	L.S. Rs. 2000/1	2000
Compressor Air Flushing	Per Hr Rs. 1000/5	5000
WATER TANK SUPPLAY	4 TANKS. 500/4	2000
ONE LAKH SIX THOUSAND TWO HUNDRED AND FIFTY ONLY	Total Amount	106250

Thanking you,

Yours faithfully,

For S.V. BORE WELLS

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Tax Invoice

(ORIGINAL FOR RECIPIENT)

Electric Stores
ndappa Naicker Street
600001
33AASPS5675J1ZX
Tamil Nadu Code : 33
9444203854 9840015095
rajasthanelectricstores@gmail.com

Steel Industries Ltd
Spicot Industrial Complex
und
N 33AABCK2367G1ZS
Tamil Nad Code : 33
Supply Tamil Nad

Invoice No	Dated
13440	**1-Mar-2019**
Delivery Note	Mode/Terms of Payment
Supplier's Ref	Other Reference(s)
Buyer's Order No	Dated
Despatch Document No	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
nm x 3C **Submersible Cop Wire**	8544	18 %	**110.00 MTS**	85.00	MTS	**9,350.00**
CGST Output @ 9%				9	%	**842.00**
SGST Output @ 9%				9	%	**842.00**
Total			**110.00 MTS**			**₹ 11,034.00**

E & O E

argeable (in words)
on Thousand Thirty Four Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
	9,350.00	9%	842.00	9%	842.00	1,684.00
Total	**9,350.00**		**842.00**		**842.00**	**1,684.00**

(in words) **INR One Thousand Six Hundred Eighty Four Only**

PAN **AASPS5675J**

Company's Bank Details
Bank Name **Lakshmi Vilas Bank**
A/c No **0361000004431**
Branch & IFS Code **GJ Street & LAVB0000427**

e that this invoice shows the actual price of the goods
and that all particulars are true and correct

for **Rajasthan Electric Stores**

Seal and Signature

Authorised Signatory

SUBJECT TO CHENNAI JURISDICTION
This is a Computer Generated Invoice

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(DUPLICATE FOR TRANSPORTER)

GSTIN : 33AROPS1522G1Z2

Subject to Chennai Jurisdiction

TAX INVOICE BILL

Phone : 25244858, 25225086
E-mail : ajitgenset@yahoo.co.in

AJIT ENGINEERING CORPORATION

New No. 286, (Old No. 191) Thambu Chetty Street, Chennai - 600 001.

MICROTEK Digital Inverters, Exide Batteries
MEX Starters, CRI Pumps, Kirloskar Diesel Generators
and Electrical Accessories

No. 15985

Date : 21/2/2025

To Kanishk Steel Industries Ltd.,

D-27, MIDC SIPCOT Industrial Complex,

Gummidipoondi - 601201. GSTIN: 33AACCK2367G1ZS

Your Order No. ..... Dated ..... Goods Dispatched through PO 68 dated 15.2.25.

Qty.	PARTICULARS	Rate	Per	AMOUNT Rs.	P.
1no	HP CRI 9 stage Submersible Pump			11428	
	CGST 6%			686	
	SGST 6%			686	
				12800	

KANISHK STEEL INDUSTRIES LTD.
MIDC
Received Rs. 12800
Date 21.2.25

Rs. 12800/-
E.&.O.E.

Our responsibility ceases once the goods leave our premises. We do not will be attended by us for any loss o damage in transit.

Authorised Distributors in :

For AJIT ENGINEERING CORPORATION

MICROTEK SPS BATTERIES | LARSEN & TOUBRO | EXIDE | Crompton | C.R.I. PUMPS

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DUP

PRAVEEN TUBES CORPORATION

25268067,
25272244,
...ins@praveentu
...www.praveentu
...33AAAFP5

...Industrial Complex
...3AABCK2367G1Z5

PAY ORDER, D.D. & RTGS ONLY ACCEPTED FOR INVOICE BILLS

CREDIT BILL

CREDIT BILL No. IN15723 Date 27/02/20

Despatched per. To

Document Through PAID CHEQUE NO.5624

Order No.

P.O Date

S.No.	DESCRIPTION	HSN CODE	QTY.	RATE	UNIT	DIS.%	TAX%
1	Submersible Adopters	73072900	1	88.44	EACH		18.00
2	Submersible Pipe STD Coupler Type	39172390	30	155.80	MTS		18.00

Gross value	CGST%	CGST Value	SGST%	SGST Value
	9.00	446.62	9.00	446.62

Sub Total:	4962
Bill Discount:	0
Courv & Wages recd:	0
Total CGST:	446
Total SGST:	446
Rounded off.	
GROSS AMOUNT:	56

Rupees ...housand Eight Hundred Fifty Six Only

...AHASEKAR

...58 PM

For PRAVEEN TUBES CORP

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பெறுநர்:

தலைமை ஆசிரியர்,
உயர்நிலை பள்ளி,
திருவள்ளுவர் மாவட்டம்.

பெறுநர்:

O.P. Steel Company,
திருவள்ளுவர் மாவட்டம்,
தமிழ்நாடு.

ஐயா,

பொருள்: ஏழை பள்ளி மாணவர்களுக்கு நலஉதவிகள் வழங்குதல்.

உயர்நிலை பள்ளி மாணவர்களை நல்ல பள்ளியின் ஏழை மாணவர்கள் படிக்கின்றனர். அவர்களுக்கு கல்வியில் முன்னேற்றம் நலஉதவிகளை வழங்கி தருமபுரி தீர்க்கனை பணியுடன் [illegible]

மாணவர்களுக்கு Bags வழங்கியதற்கு மிக்க நன்றி.

2017

[illegible]
உயர்நிலை பள்ளி
விவேகானந்தா நகர்
திருவள்ளுவர் மாவட்டம்

[illegible]
உயர்நிலை பள்ளி
விவேகானந்தா நகர்
திருவள்ளுவர் மாவட்டம்

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தலைமை ஆசிரியை,
அ.ஒ.தொ.பள்ளி,
விக்னகானந்தா நகர்,
கும்மிடிப்பூண்டி.

பெறுநர்:
C.P. Steel Company,
சிப்காட் தொழிலகம்,
கும்மிடிப்பூண்டி.

ஐயா!

பொருள்: ஆழ்துளை கிணறு அமைத்து அதற்கு pipe போட்டு கொடுத்து தந்ததற்கு நன்றி தெரிவித்தல்-சார்பு

அ.ஒ.தொ.பள்ளி – விக்னகானந்தா நகர் பள்ளிக்கு ஆழ்துளை கிணறு அமைத்து pipe line செய்து கொடுத்தீர்கள். அதற்கு மிகுந்த நன்றியினை எங்கள் பள்ளியின் சார்பாக தெரிவித்துக் கொள்கிறோம்.

தலைமை ஆசிரியர்
அ.ஒ.தொ.பள்ளி
விக்னகானந்தா நகர்
கும்மிடிப்பூண்டி ஒன்றியம்
திருவள்ளூர் மாவட்டம்

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விடுநர்	பெறுநர்
திரு. ந.வெற்றி,அரசு, செயல் அலுவலர், கும்முடிப்பூண்டி பேரூராட்சி, திருவள்ளூர் மாவட்டம்.	மேலாளர், கனிஷ்க் எ்பகல்ஸ், சிப்காட் கும்முடிப்பூண்டி

ந.க.எண். 195 / 2019 / அ1, நாள்.13.09.2019

அய்யா,

பொருள் : மரம் நடுதல் – திருவள்ளூர் மாவட்டம் – கும்முடிப்பூண்டி பேரூராட்சி பகுதிகளில் மாவட்ட ஆட்சி தலைவர் அவர்கள் அறிவுரையின் படி 3000 மரக்கன்றுகள் நட வேண்டியுள்ளதால் தங்கள் நிறுவனம் மூலம் 150 மரக்கன்றுகள் மற்றும் கம்பி வளையங்கள் வழங்க கேட்டல் தொடர்பாக.

திருவள்ளூர் மாவட்டம் கும்முடிப்பூண்டி பேரூராட்சி பகுதிகள் முழுவதும் மாவட்ட ஆட்சி தலைவர் அவர்கள் அறிவுரையின் படி 3000 மரக்கன்றுகள் நட வேண்டியுள்ளதால் தங்கள் நிறுவனம் மூலம் 150 மரக்கன்றுகள் மற்றும் 150 பாதுகாப்பு கம்பி வளையங்கள் வழங்குமாறு மிகவும் பனிவுடன் கேட்டுக்கொள்கிறேன்.

செயல் அலுவலர்,
கும்முடிப்பூண்டி பேரூராட்சி,
திருவள்ளூர் மாவட்டம்.

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STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT. OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL COMPLEX
PROJECT OFFICE, GUMMIDIPOONDI – 601 201.
Telephone: 044-27922355
Telefax : 044-27922242
Email: pmsipcotgpd@gmail.com
CIN .U74999TN1971SGC005967

No.PO/SIC/GPD/Misc/2019 dt: 02.05.2019

To
M/s. Kanishk Steel Industries Ltd.,
SIPCOT Industrial Complex,
Gummidipoondi – 601201.

Sub: SIPCOT Industrial Complex, Gummidipoondi – Tree plantation and maintenance – reg.

Ref: Your letter dated: 24.04.2019

****

With reference to the letter cited, you have planted the avenue plants in Block premises to an extent of about 1.50acres and infront of the OSR-8 setting main road to an extent of about 1.00acres (200nos.+100nos. = 300nos.), in October'2018 and being maintained the same till now.

Hence, it is informed that, you are requested to maintain the trees to the said location further one years.

Kindly acknowledge, the letter receipt of this letter.

Yours faithfully,

PROJECT OFFICER
SIPCOT. GUMMIDIPOONDI

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4

KANISHK STEEL IND LTD

CSR EXPENSES

Ledger Account

1-Apr-2022 to 31-Mar-2023

Date	Particulars	Vch Type	Vch No.	Debit	Credit
13-2-2023	To **M GNANARAJ GNANAMMAL EDU RES & CHRT TRUST** *BEING THE AMOUNT PAID AS DONATION TO CHENNAI MIDDLE SCHOOL ROYAPETTAH FOR PURCHASES OF SCIENCE LAB MATERIALS & 44 INCH LCD PROJECTOR & APPROVAL FOR REGISTRATION OF THE ENTITIES FOR UNDERTAKING CSR ACTIVITIES THE REGISTRATION NUMBER IS CSR00020241 -RECEIPT NO 1085/13.02 2023*	Journal	FEBRUARY	30,000.00	
8-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 08.3.23 TO LOTUS BLIND WELFARE TRUST OF INDIA PAN NO. AAATL3369D & CSR NO. CSR00021568 -RECEIPT NO 4353/08.03. 2023*	BANK PAYMENT	RTGS/MAR23/KK/58	12,000.00	
27-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 27.3.23 TO GNARAJ GNANAMMAL EDUCATIONAL & CHARITABLE TRUST CSR00020241. -RECEIPT NO 1087/27.03.2023*	BANK PAYMENT	RTGS/MAR23/KK/277	30,000.00	
30-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 30.3.23 T/W CSR ACTIVITIES TP " THE NATIONAL FOUNDATION FOR LIVER RESEARCH" PAN NO. AACTT2749R CSR NO: CSR00032299 REGN MADE ON 20.6.22 RECEIPT NO: 528/ 31.03.2023*	BANK PAYMENT	RTGS/MAR23/KK/344	5,00,000.00	
31-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO SABARI CHARITABLE TRUST T/R CSR EXPENSES CSR00025664 -RECEIPT NO 156/31/03/2023*	BANK PAYMENT	RTGS/MAR23/KK/346	2,00,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO KARTIK ART FESTIVAL T/ W CSR EXPENSES. PAN NO. AAATK3060A & CSR NO; CSR00013759 -RECEIPT NO. 1083/31 /03/2023*	BANK PAYMENT	RTGS/MAR23/KK/347	1,00,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO VIJAY HUMAN SERVICES T/ W CSR EXPENSES. PAN NO. AACTV2925M & CSR NO; CSR00006683 - RECEIPT NO: 131/ 31.03. 2023*	BANK PAYMENT	RTGS/MAR23/KK/351	1,00,000.00	
	Carried Over			9,72,000.00	

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continued ...

..SHK STEEL IND LTD

CSR EXPENSES Ledger Account : 1-Apr-2022 to 31-Mar-2023

Date	Particulars	Vch Type	Vch No	Debit	Credit
	Brought Forward			9,72,000.00	
31-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO SIGHT CARE FOUNDATION T/W CSR EXPENSES PAN NO. AAKTS4751Q & CSR NO. CSR00002482*	BANK PAYMENT	RTGS/MAR23/KK/358	50,000.00	
	To **OUTSTANDING C S R EXPENSES** *BEING THE THE PROVISION MADE FOR CSR EXPENSES BALANCE AS ON 31.3.23*	Journal	CSR/PROVISION/1	4,47,000.00	
				14,69,000.00	
	By **Closing Balance**				14,69,000.00
				14,69,000.00	**14,69,000.00**

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KANISHK STEEL IND LTD

Old. No.4,New No.7,
Thiru-Vi-Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004.

CSR EXPENSES

Ledger Account

1-Apr-23 to 29-Aug-24

Date	Particulars	Vch Type	Vch No.	Debit	Credit
4-Sep-23	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 04.09.2023 . TO " RIVER THE POWER OF WOMEN" CSR NO; CSR00058297 & PAN NO; AACTR7421A. AS PER BY SG MADAM- RECEIPT NO: 038/06 /09/2023*	BANK PAYMENT	RTGS/SEPT23/KK/42	50,000.00	
3-Jan-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 03.01.2024 T/W CSE EXPENSES TO MADRAS SOUTHWEST ROTARYPROJECTS CHARITABLE TRUST. PAN NO; AAATM6347A. CSR REGN NO; CSR00037208- RECEIPT NO: MSRPCT/23 -24/099*	BANK PAYMENT	RTGS/JAN24/KK/25	2,00,000.00	
9-Feb-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 9.2.24 - MADRAS SOUTHWEST ROTARY PROJECTS CHARITABLE TRUST PAN NO. AAATM6347A CSR REGISTRATION: CSR00037208)RECEIPT NO: MSRPCT/23 -24/103*	BANK PAYMENT	RTGS/FEB24/KK/162	5,00,000.00	
19-Feb-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 19.2.24 TO LITTLE DROPS -RECEIPT NO: 1426/19-02-2024- CSR NO: CSR00003749*	BANK PAYMENT	RTGS/FEB24/KK/337	50,000.00	
31-Mar-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO KARTIK ART FESTIVAL TRUST FOR RS 50000/--RECEIPT NO: 1176/31-03-24 CSR NO: CSR00013759*	BANK PAYMENT	RTS/MAR24/KK/253- CSR NO	50,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO VIJAY HUMAN SERVICES FOR RS 50000/-- RECEIPT NO: 161/ 31.03.2023- CSR NO: CSR00006683*	BANK PAYMENT	RTS/MAR24/KK/254	50,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200400- CSR NO: CSR00002482*	BANK PAYMENT	RTS/MAR24/KK/255	2,00,400.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200500 - CSRNO: CSR00002482*	BANK PAYMENT	RTS/MAR24/KK/256	2,00,500.00	
	Carried Over			13,00,900.00	

continued ...

ISHK STEEL IND LTD

R EXPENSES Ledger Account : 1-Apr-23 to 29-Aug-24

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			13,00,900.00	
31-Mar-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200200- CSRNO. CSR00002482*		RTS/MAR24/KK/257	2,00,200.00	
	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200000*		RTS/MAR24/KK/258	2,00,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200900-- CSRNO. CSR00002482*		RTS/MAR24/KK/259	2,00,900.00	
				19,02,000.00	
	By **Closing Balance**				19,02,000.00
				19,02,000.00	**19,02,000.00**
1-Apr-24	To **Opening Balance**			**19,02,000.00**	
3-Jun-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID THRU RTGS ON 03.06.2024 T/W CSR EXPENSES TO LOTUS BLIND WELFARE - RECEIPT NO: 4674/03-06-2024- CSRNO: CSR00021568*		RTGS/JUNE24/KK/07	1,00,000.00	
4-Jun-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 04.05.2024 . T/W CSR EXPENSES TO TAMILNADU ASSOCIATION OF THE BLIND - RECEIPT NO: 9793 DT.04-06-2024- CSRNO: CSR00038568*		RTGS/JUNE24/KK/35	60,000.00	
30-Jul-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 30.7.24 TO TAMILNADU GASTROENTEROLOGIST TRUST PAN NO: AAATI4210L. CSR NO;CSR00071778.- RECEIPT NO:*		RTGS/30.7.24/CSR EXP/01	5,00,000.00	
				25,62,000.00	
	By **Closing Balance**				25,62,000.00
				25,62,000.00	**25,62,000.00**

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ANNEXURE -III

CORPORATE ENVIROMENTAL RESPONSIBILITY



KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

CORPORATE ENVIRONMENTAL RESPONSIBILITY

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	IMPROVEMENT AND REJUVANATION OF THAMRAI ERI POND AND GREEN DEVELOPMENT ACTIVITY TREES PLANTED IN AND AROUND OF THAMRAI ERI LAKE	15.43
2	AT 15 WARD NEAR VILLAGE GANGANTHOTTI DRINKING WATER FACILITY PROVIDED	2.0355
	Total	**17.46**

Source: KSIL, Gummidpoondi

for KANISHK STEEL INDUSTRIES LTD

Director

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ORIGINAL GOR RECIPIENT

DSS CRANES

Available for Hire, Escorts Crane, Crawler Cranes Telescopes
No:598/1, Bye Pass Road, Gummidipoondi, Thiruvallur Dist, Tamil Nadu, 601201
Mobile No:9443642665/9245299466

CASH/CREDIT BILL

	: 33FOVPS3414G1ZL	SAC: 996609	TAX INVOICE NO	1
NO	: FOVPS3414G		Date of Issue	04.09.2019

OMER / RECIPIENT NAME AND ADDRESS	CONSIGNEE / SHIP TO PARTY NAME AND ADDRESS
: KANISHK STEEL INDUSTRIES LTD	Name : KANISHK STEEL INDUSTRIES LTD
NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX, GUMMIDIPOONDI - 601201.	Address NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX, GUMMIDIPOONDI - 601201.
Code: 33	State Code: 33
: 33AAABCK2367G1ZS	GSTIN : 33AAABCK2367G1ZS

NO	Particulars	DATE	HOURS	RATE	AMOUNT
1	Desilting & Bund Formation at Thamarai Lake - Gummidipoond [Under their CSR Activity]				300000.00

	Taxable value	300000.00
	SGST @ 9%	27000.00
ds: Three Lakhs Fifty Four Thousand Only	CGST @ 9%	27000.00
	TOTAL	354000.00

For DSS CRANES

Authorised Signatory

D.S.S. CRANES GUMMIDIPOONDI

Cheque no: 350656/10/09/19

PAN: BDZPD2901A

Cell: 99403 [illegible]
99943 [illegible]

P. DASARADHA REDDY

JCB & Ex-60, Poclain & Lorry on Hire

Bodireddy Kandigai Village, S.R. Kandigai Post, Gummudipoondi - 601 201

Date: 5.9.19

Ref:

M/s. Kanishk Steel industries (TD) (JCB)

work done at Thamarai Edi

NO	Date	Hours
1)	28-8-19	8 hours
2)	29-8-19	10 hrs
3)	30-8-19	9 hrs
4)	31-8-19	8 hrs
5)	01-9-19	9 hrs
6)	03-9-19	7 hrs
7)	04-9-19	9 hrs

TOTal Hours : 60 hrs

: 60 x 750

TOTal amount : 45000

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: BDZPD2901A

Cell: 99403 [illegible]
99943 [illegible]

P. DASARADHA REDDY

JCB & Ex-60, Poclain & Lorry on Hire

Bodireddy Kandigai Village, S.R. Kandigai Post, Gummudipoondi - 601 20[illegible]

Date: 5/9/19

Ref:

M/s Khanishk Steel industries (ITO)

Gummudipoondi

(Lorry)

work done at thamarai Ex.

Date: 28-8-19 : 1 day full
: 29-8-19 : 1 day full
: 30-8-19 : 1 day full
: 01-9-19 : 1 day full
: 03-9-19 : 1 day full
: 04-9-19 : 1 day full

Total days 6 days

one day Pcs Rupees 5000

: 6 × 5000

Total amount : 30,000/-

Yours [illegible]

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P. SUDHAKAR
EARTH MOVERS

B.R.KANDIGAI VILLAGE, S.R.KANDIGAI POST, Gummidipoondi & Tiruvallur (Dist)

Date 06/09/2019

M/s. Kanishk steel Industries limited.

Gummidipoondi - 601201

[Lorry] ⇒ TN18M2143

Thamaraipakkam Eri Sand Removing Works

Data:-

20/08/2019	1 day ⇒	Full
21/08/2019	1 day ⇒	Full
22/08/2019	1 day ⇒	Full
23/08/2019	1 day ⇒	Full
24/08/2019	1day ⇒	Full
26/08/2019	1day ⇒	Full
27/08/2019	1day ⇒	Full
28/08/2019	1day ⇒	Full
29/08/2019	1day ⇒	Full
30/08/2019	1day ⇒	Full
01/09/2019	1day ⇒	Full

11 days × 5000/- = 55,000/-

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PAN No. : DHQPS5691C

P. SUDHAKAR
EARTH MOVERS

B.R.KANDIGAI VILLAGE, S.R.KANDIGAI POST, Gummidipoondi Tk. Tiruvallur Dist.

Date. 06/09/2019

M/s. Kanishk Steel Industries limited., - Gpd - 601201

JCB Works

Thamarai Eri Sand Removing Works

S.L.No	Date	Hours
1.	20/08/19	8 hour
2.	21/08/19	10 hour
3.	22/08/19	9 hour
4.	23/08/19	8.50 hour
5.	24/08/19	9. hour.
6.	26/08/19	7. hour
7.	27/08/19	9. hour
8.	28/08/19	10 hour
9.	29/08/19	4.90 hour
10.	30/08/19	8. hour
11.	01/09/19	9 hour

92.40 hour x 750 = 69,300/-

[Sixty Nine thousand three hundred Rupees only]

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Available for Hire, Escorts Crane, Crawler Cranes Telescopes

[illegible] Bye Pass Road, Gummidipoondi, Thiruvallur Dist, Tamil Nadu, 601201

Mobile No:9443642665/9245299466

CASH/CREDIT BILL

33FOVPS[illegible]G1ZL	SAC: 996609	TAX INVOICE NO	3
FOVPS[illegible]		Date of Issue	16.10.2019

[illegible]ER / RECIPIENT NAME AND ADDRESS

KANISHK [illegible] INDUSTRIES LTD
NO B[illegible] M & N,IPCOT INDUSTRIAL COPLEX,
GUMMIDIPOONDI - 601201.
Code 33
33AAABCK2367G1ZS

CONSIGNEE / SHIP TO PARTY NAME AND ADDRESS

Name : KANISHK STEEL INDUSTRIES LTD
Address NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX,
GUMMIDIPOONDI - 601201.
State Code: 33
GSTIN : 33AAABCK2367G1ZS

NO	Particulars	DATE	HOURS	RATE	AMOUNT
1	Desilting & Bund Formation at Thamaraikulam Lake - Gummidipoond [Under their CSR Activity]		7264 MQB	155	1125920.00
	Advance				-300000.00
	Rounding Off				0.40
			Taxable value		825920.00
			SGST @ 9%		74332.80
			CGST @ 9%		74332.80
			TOTAL		974586.00

Words: Nine Lakhs Seventy Four Thousand Five Hundred and Eighty Six Only

For DSS CRANES

D.S.S. CRANES ★ GUMMIDIPOONDI ★

Authorised Signatory

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CRYSTAL WATER TECHNOLOGIES
PLOT NO65, DOORNO16A, G1
NEW N.G.O. COLONY 2ND MAIN ROAD
ADAMBAKKAM
CHENNAI - 600 088
GSTIN/UIN: 33ABTPC8940K1Z9
State Name : Tamil Nadu, Code : 33
Contact : 9840462882,9840462682
E-Mail : crystal_water@rediffmail.com
www.chennaicrystalwater.com

Invoice No.	e-Way Bill No.	Dated
200		19-Aug-2022
Delivery Note		Mode/Terms of Payment
Supplier's Ref.		Other Reference(s)
Buyer's Order No.		Dated
Despatch Document No.		Delivery Note Date
Despatched through		Destination
Terms of Delivery		

Buyer
M/S. KANISHK STEEL
B-27, SIPCOT INDUSTRIAL ESTATE
GUMUDIPOONDI
CHENNAI
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	RO PLANT 250 LPH	84212110	1 NOS	1,84,000.00	NOS	1,64,000.00
2	STORAGE TANK - 1000 LTRS (PVC TANK)	39251000	1 NOS	8,500.00	NOS	8,500.00
						1,72,500.00
	CGST OUTPUT TAX					15,525.00
	SGST OUT PUT TAX					15,525.00
	Total		2 NOS			₹ 2,03,550.00

Amount Chargeable (in words) E. & O.E
Indian Rupees Two Lakh Three Thousand Five Hundred Fifty Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
84212110	1,64,000.00	9%	14,760.00	9%	14,760.00	29,520.00
39251000	8,500.00	9%	765.00	9%	765.00	1,530.00
Total	1,72,500.00		15,525.00		15,525.00	31,050.00

Tax Amount (in words) : **Indian Rupees Thirty One Thousand Fifty Only**

KANISHK STEEL INDUSTRIES LTD,
Received T
Aug 99
Date 22/8/22 Ay

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details
Bank Name : INDIAN BANK OD ACCOUNT
A/c No. : 739743061
Branch & IFS Code : VELACHERRY & IDIB000V013

for CRYSTAL WATER TECHNOLOGIES

Authorised Signatory

This is a Computer Generated Invoice

CRYSTAL WATER TECHNOLOGIES CHENNAI 600 088

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DISASTER MANAGEMENT PLAN
&
FUND DONATIONS DETAILS

detailed design, applying recommended control strategies and implementing a Safety Management System

7.2.3 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector, and;
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage;
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

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victims. This includes the search for the dead and injured and removal of debris and social care, the provision of temporary shelter to the homeless food, clothing and medical supplies, and the rapid re-establishment of essential services.

7.3.1 Objectives of Disaster Management Plan (DMP)

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it will be widely circulated and personnel training given through rehearsals/drills.
The Disaster Management Plan would reflect the probable, consequential severity of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on currently available and reliable information, incident data from internal and external sources and if necessary the reports of outside agencies. To tackle the consequences of a major emergency inside the factory or immediate vicinity of the factory, a planned emergency document is prepared, called the "Disaster Management Plan"

The objective of the Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area; and
- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the Emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

7.3.2 Specific Emergencies Anticipated

Fire consequences can be disastrous, since they involve huge quantities of fuel either stored or in dynamic inventory in pipelines or in nearby areas. Toxic releases can affect persons working around. Preliminary hazard Analysis has provided a basis for consequence estimation.

7.3.3 Emergency Organization

It is recommended to set up an Emergency Organization. A senior executive who has control over the affairs of the plant would be heading the Emergency Organization. He would be designated at Site Controller. Works Manager would be designated as the Incident Controller. In the case of stores, utilities, open areas, which are not under the control of the Production Heads, Senior Executive responsible for maintenance of utilities would be designated as Incident Controller. All the Incident Controllers would be reporting to the Site Controller.

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Each Incident Controller, for himself, organizes a team responsible for controlling the incidence with the personnel under his control. Shift In-charge would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.

Emergency co-ordinators would be appointed who would undertake the responsibilities like fire fighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, Security In-charge, Personnel Department, Essential services personnel would be engaged. All these personnel would be designated as Key personnel.

In each shift, electrical supervisor, electricians and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/plant offices would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.3.3.1 Emergency Communication

Whoever notices an emergency situation such as fire, escalation of fire, leakage etc will inform his immediate superior and Emergency Control Center. A place nearer to the security office shall be identified as Emergency Control Center. The person on duty in the Emergency Control Center would appraise the Site Controller. Site Controller verifies the situation from the Incident Controller of that area or the Shift In-charge and takes a decision about an impending On Site Emergency. This would be communicated to all the Incident Controllers, Emergency Co-ordinators. Simultaneously, the emergency warning system would be activated on the instructions of the Site Controller.

7.3.4 Onsite Emergency Preparedness and Response for Accidents

7.3.4.1 Emergency Responsibilities

The responsibilities of the key personnel are appended below:

Site Controller:

On receiving information about emergency he would rush to Emergency Control Center (ECC) and take charge of ECC and the situation and;

- Assesses the magnitude of the situation on the advice of incident Controller and decides, Whether the affected area needs to be evacuated,
- Whether personnel who are at assembly points need to be evacuated,
- Declare Emergency and order for operation of emergency siren,
- Organizes announcement by public address system about location of emergency,
- Assesses which areas are likely to be affected, or need to be evacuated or need to be alerted,
- Maintains a continuous review of possible development and assesses the situation in consultation with Incident Controller and other Key Personnel as to whether shutting down the plant or any section of the plant is required and if evacuation of persons is required,
- Directs personnel for rescue, rehabilitation, transport, fire, brigade, medical and other designated mutual support systems locally available, for meeting emergencies.
- Controls evacuation of affected areas, if the situation is likely to go out of control or effects are likely to go beyond the premises of the factory, informs the District Emergency Authority, Police, Hospital and seeks their intervention and help,

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- Informs the Inspector of Factories, Deputy Chief Inspector of Factories, TNPCB and other statutory authorities,
- Gives a public statement if necessary,
- Keeps record of chronological events and prepares an investigation report and preserve evidence,
- On completion of On Site Emergency and restoration of normalcy, declares all clear and orders for all clear warning.

Incident Controller:

- Assembles the incident control team.
- Directs operations within the affected areas with the priorities for safety to personnel minimize damage to the plant, property and environment and minimize the loss of materials.
- Directs the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency.
- Ensure that key personnel help is sought.
- Provides advice and information to the Fire and Security Officer and the Local Fire Services as and when they arrive.
- Ensures that all non-essential workers/staff of the affected areas evacuated to the appropriate assembly points, and the areas are searched for casualties.
- Has regard to the need for preservation of evidence so as to facilitate any inquiry into the causes and circumstances, which caused or escalated the emergency.
- Co-ordinates with emergency services at the site.
- Provides tools and safety equipment to the team members.
- Keeps in touch with the team and advice them regarding the method of control to be used.
- Keeps the Site Controller of Emergency informed of the progress being made

Emergency Coordinator - Rescue, Fire Fighting:

- Helps the incident Controller in containment of the emergency;
- Ensures fire pumps are in operating conditions and instructs pump house operator to be ready for any emergency with standby arrangement;
- Guides the fire fighting crew i.e. firemen, trained plant personnel and security staff;
- Organizes shifting of the fire fighting facilities to the emergency site, if required;
- Takes guidance of the Incident Controller for fire fighting as well as assesses the requirements of outside help;
- Arranges to control the traffic at the gate and the incident area;
- Directs the security staff to the incident site to take part in the emergency operations under his guidance and supervision;
- Evacuates the people in the plant or in the nearby areas as advised by Site Controller;
- Searches for casualties and arranges proper aid for them;
- Assembles search and evacuation team;
- Arranges for safety equipment for the members of this team;
- Decides which paths the evacuated workers should follow;
- Maintains law and order in the area, and if necessary seeks the help of police.

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Emergency Coordinator-Medical, Mutual Aid, Rehabilitation, Transport and Communication:

- In the event of failure of electric supply and thereby internal telephone, sets up communication point and establishes contact with the ECC;
- Organizes medical treatment to the injured and if necessary will shift the injured to nearby hospitals;
- Mobilizes extra medical help from outside, if necessary;
- Keeps a list of qualified first aid providers of the factory and seek their assistance;
- Maintains first aid and medical emergency requirements;
- Makes sure that all safety equipment is made available to the emergency team;
- Assists Site Controller with necessary data and to coordinate the emergency activities;
- Assists Site Controller in updating emergency plan, organizing mock drills verification of inventory of emergency facilities and furnishing report to Site Controller;
- Maintains liaison with Civil Administration;
- Ensures availability of canteen facilities and maintenance of rehabilitation center;
- He will be in liaison with Site Controller/Incident Controller;
- Ensures transportation facility;
- Ensures availability of necessary cash for rescue/rehabilitation and emergency expenditure;
- Controls rehabilitation of affected areas on discontinuation of emergency;
- Ensures availability of diesel/petrol for transport vehicles engaged in emergency operation.

Emergency Coordinator - Essential Services:

- He would assist Site Controller and Incident Controller.
- Maintains essential services like Diesel Generator, Water, Fire Water, Compressed Air/Instrument Air, power supply for lighting.
- He would plan alternate facilities in the event of power failure, to maintain essential services such as lighting, refrigeration plant etc.
- He would organize separate electrical connections for all utilities and emergency services so that in the event of emergency or fires, essential services and utilities are not affected.
- Gives necessary instructions regarding emergency electrical supply, isolation of certain sections etc. to shift in-charge and electricians.
- Ensures availability of adequate quantities of protective equipment and other emergency materials, spares etc.

General Responsibilities of Employees during an Emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers if they are in-charge of process equipment should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

7.3.4.2 Emergency Facilities

Emergency Control Center (ECC):

For the time being, Office Block or a place nearer to the security office is identified as Emergency Control Center. It would have external Telephone, Fax, and Telex facility. All the Site Controller/ Incident Controller Officers, Senior Personnel would be located here. Also, it

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would be an elevated place. The following information and equipment are to be provided at the Emergency Control Center (ECC).

- Intercom, telephone
- P and T telephone
- Safe contained breathing apparatus
- Fire suit/gas tight goggles/gloves/helmets
- Hand tools, wind direction/velocities indications
- Public address megaphone, hand bell, telephone directories
- (Internal P and T) factory layout, site plan
- Emergency lamp/torch light/batteries
- Plan indicating locations of hazard inventories, plant control room, sources of safety equipment, work road plan, assembly points, rescue location vulnerable zones, escape routes.
- Hazard chart
- Emergency shut-down procedures
- Nominal roll of employees
- List of key personnel, list of essential employees, list of Emergency Co-ordinators
- Duties of key personnel
- Address with telephone numbers and key personnel, emergency coordinator, essential employees.
- Important address and telephone numbers including Government agencies, neighbouring industries and sources of help, out side experts, chemical fact sheets population details around the factory.

Assembly Point:

Number of assembly points depending upon the plant location would be identified wherein employees who are not directly connected with the disaster management would be assembled for safety and rescue. Emergency breathing apparatus, minimum facilities like water etc. would be organized. In view of the size of plant, different locations are ear marked as assembly points. Depending upon the location of hazard, the assembly points are to be used.

Fire Fighting Facilities:

First Aid Fire fighting equipment suitable for emergency should be maintained in each section in the plant. This would be as per statutory requirements. However, fire hydrant line covering major areas would be laid. It would be maintained at 6- kg/cm^2 pressure. Fire alarms would be located in the bulk storage areas. Fire officer will be the commanding officer of fire fighting services.

Location of Wind Sock:

On the top of the Administration block and the top of each production blocks, windsocks shall be installed to indicate direction of wind for emergency escape.

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Emergency Medical Facilities:

Stretchers, gas masks and general first aid materials for dealing with fire burns would be maintained in the medical center as well as in the emergency control room. Medical superintendent of the township will be the head of the casuality services ward. Private medical practitioners help would be also are sought. Government hospital would be approached for emergency help.

Apart from plant first aid facilities, external facilities would be augmented. Names of Medical Personnel, Medical facilities in the area would be prepared and updated. Necessary specific medicines for emergency treatment of Burns for Patients and for those affected by toxicity would be maintained. Breathing apparatus and other emergency medical equipment would be provided and maintained. The help of near by industrial management in this regard would be taken on mutual support basis.

Ambulance:

An ambulance with driver availability in all the shifts and an emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift, first aid personnel would be available.

7.3.4.3 Emergency Actions

Emergency Warning

Communication of emergency would be made familiar to the personnel inside the plant and people outside. An emergency warning system shall be established.

Emergency Shutdown

There are number of facilities which can be provided to help deal with hazardous conditions, when a tank is on fire. The suggested arrangements are:

1. Stop the production;
2. Dilute contents;
3. Remove heat;
4. Deluge with water; and
5. Transfer contents.

Whether a given method is appropriate depends on the particular case. Cessation of agitation may be the best action in some instances but not in others. Stopping of the feed may require the provision of by pass arrangements.

Methods of removing additional heat include removal through the normal cooling arrangements or use of an emergency cooling system. Cooling facilities, which use vaporing liquid, may be particularly effective, since a large increase in vaporization can be obtained by dropping pressure.

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Evacuation of Personnel:

There could be more number of persons in the storage area and other areas in the vicinity. The area would have adequate number of exits and staircases. In the event of an emergency, unconnected personnel have to escape to assembly point. Operators have to take emergency shutdown procedure and escape. Time Office maintains a copy of deployment of employees in each shift, at ECC. If necessary, persons can be evacuated by rescue teams.

All Clear Signal:

Also, at the end of an emergency, after discussing with Incident Controllers and Emergency Co-ordinators, the Site Controller orders an all clear signal. When it becomes essential, the Site Controller communicates to the District Emergency Authority, Police, and Fire service personnel regarding help required or development of the situation into an Off-Site Emergency.

7.3.4.4 General

Employee Information:

During an emergency, employees would be warned by raising siren in specific pattern. Employees would be given training of escape routes, taking shelter, protecting from toxic effects. Employees would be provided with information related to fire hazards, antidotes and first aid measures. Those who would be designated as key personnel and essential employees should be given training to emergency response.

Public Information and Warning:

The industrial disaster effects related to this plant may mostly be confined to the plant area. The detailed risk analysis has indicated that the pool fire effects would not be felt outside. However, as an abundant precaution, the information related to chemicals in use would be furnished to District Emergency Authority for necessary dissemination to general public and for any use during an off site emergency. Factories of this size and nature are in existence in our state since long time.

Co-ordination with Local Authorities:

Keeping in view of the nature of emergency, two levels of coordination are proposed. In the case of an On Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency, local authorities help should be sought.

In the event of an emergency developing into an off site emergency, local authority and District emergency Authority (normally the Collector) would be appraised and under his supervision, the Off Site Disaster Management Plan would be exercised. For this purpose, the facilities that are available locally, i.e. medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered. Necessary rehearsals and training in the form of mock drills should be organized.

Mutual Aid:

Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc should be sought from the neighboring industrial management.

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Mock Drills:

Emergency preparedness is an important step in planning of Industrial Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel should be trained in the operations. Co-ordination meeting with the line Department officials for preparedness and implementation, viability and conduct of Mock Drill/ training should be conducted along with Divisional or Taluk level of Tiruvallur District.

Important Information:

Once the Plant goes into stream, important information such as names and addresses of key personnel, essential employees, medical personnel, outside the plant, transporters address, address of those connected with Off Site Emergency such as Police, Local Authorities, Fire Services, District Emergency Authority should be prepared and maintained.

7.3.5 Off-Site Emergency Preparedness Plan

7.3.5.1 Introduction

Off-site emergency plan follows the on-site emergency plan. When the consequences of an emergency situation go beyond the plant boundaries, it becomes an off-site emergency. Off-site emergency is essentially the responsibility of the public administration. However, the factory management will provide the public administration with the technical information relating to the nature, quantum and probable consequences on the neighbouring population. The off-site plan in detail will be based on those events, which are most likely to occur, but other less likely events, which have severe consequence, will also be considered. Incidents which have very severe consequences yet have a small probability of occurrence should also be considered during the preparation of the plan. However, the key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan.

The roles of the various parties who will be involved in the implementation of an off-site plan are described below. Depending on local arrangements, the responsibility for the off-site plan should be either rest with the works management or, with the local authority. Either way, the plan should identify an emergency co-ordinating officer, who would take the overall command of the off-site activities. As with the on-site plan, an emergency control center should be setup within which the emergency co-ordinating officer can operate.

An early decision will be required in many cases on the advice to be given to people living "within range" of the accident - in particular whether they should be evacuated or told to go indoors. In the latter case, the decision can regularly be reviewed in the event of an escalation of the incident. Consideration of evacuation may include the following factors:

a. In the case of a major fire but without explosion risk (e.g. an oil storage tank), only houses close to the fire likely need to be evacuated, although a severe smoke hazard may require this to be reviewed periodically;

b. If a fire is escalating and in turn threatening a store of hazardous material, it might be necessary to evacuate people nearby, but only if there is time; if insufficient time exists, people should be advised to stay indoors and shield them from the fire.

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This latter case particularly applies if the installation at risk could produce a fireball with very severe thermal radiation effects;

c. For release or potential release of toxic materials, limited evacuation may be appropriate down wind, if there is time. The decision would depend partly on the type of housing "at risk". Conventional housing of solid construction with windows closed offers substantial protection from the effects of a toxic cloud, while shanty house, which exist close to factories, offer little or no protection.

The major difference between releases of toxic and flammable materials is that toxic clouds are generally hazardous down to much lower concentrations and therefore hazardous over greater distances. Also, a toxic cloud drifting at, say 300 m per minute covers a large area of land very quickly.

Any consideration of evacuation should take this into account. Although the plan will have sufficient flexibility built in to cover the consequences of the range of accidents identified for the on-site plan, it will cover in some detail the handling of the emergency to a particular distance from each major hazard works.

7.3.5.2 Aspects Proposed to be considered in the Off-Site Emergency Plan

The main aspects, which should be included in the emergency plan, are:

- **Organization**

Details of command structure, warning systems, implementation procedures, emergency control centers. Names and appointments of incident controller, site main controller, their deputies and other key personnel.

- **Communications**

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

- **Specialized knowledge**

Details of specialist bodies, firms and people upon whom it may be necessary to call e.g. those with specialized chemical knowledge and laboratories.

- **Voluntary organizations**

Details of organizers, telephone numbers, resources etc.

- **Chemical information**

Details of the hazardous substances stored or procedure on each site and a summary of the risks associated with them.

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- **Meteorological information**

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

- **Humanitarian arrangements**

Transport, evacuation centers, emergency feeding treatment of injured, first aid, ambulances and temporary mortuaries.

- **Public information**

Arrangements for dealing with the media press office and informing relatives, etc.

- **Assessment of emergency plan**

Arrangements for: (a) Collecting information on the causes of the emergency; (b) Reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.3.5.3 Role of the Emergency Co-ordinating Officer

The various emergency services should be co-ordinated by an Emergency Co-ordinating Officer (ECO), who will be designated by the district collector. The ECO should liaison closely with the site main controller.

The Emergency Operation Center (EOC) functioning at each Taluk office Collectorate, round the clock. Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control should be passed to a senior local authority administrator or even an administrator appointed by the central or state government.

7.3.5.4 Role of the Local Authority

The duty to prepare the off-site plan lies with the local authorities. The Emergency Planning Officer (EPO) appointed should carry out his duty in preparing for a whole range of different emergencies within the local authority area. The EPO should liaison with the works, to obtain the information to provide the basis for the plan. This liaison should ensure that the plan is continually kept upto date.

It will be the responsibility of the EPO to ensure that all those organizations, which will be involved in off site handling of the emergency situation, know of their role and are able to accept it by having for example, sufficient staff and appropriate equipment to cover their particular responsibilities. Rehearsals for off-site plans should be organized by the EPO.

7.3.5.5 Role of Police

Formal duties of the police during an emergency include protecting life and property and controlling traffic movements. Their functions should include controlling bystanders, evacuating the public, identifying the dead and dealing with casualties, and informing relatives of death or injury.

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7.3.5.6 Role of Fire Authorities

The control of a fire should be normally the responsibility of the senior fire brigade officer who would take over the handling of the fire from the site incident controller on arrival at the site. The senior fire brigade officer should also have a similar responsibility for other events, such as explosions and toxic release.

Fire authorities in the region should be appraised about the location of all stores of flammable materials, water and foam supply points, and fire-fighting equipment. They should be involved in on-site emergency rehearsals both as participants, and on occasion, as observers of exercises involving only site personnel.

7.3.5.7 Role of Health Authorities

Health authorities, including doctors, surgeons, hospitals, ambulances, and so on, should have a vital part to play following a major accident, and they should form an integral part of the emergency plan. For major fires, injuries should be the result of the effects of thermal radiation to a varying degree, and the knowledge and experience to handle this in all but extreme cases may be generally available in most hospitals. For major toxic releases, the effects vary according to the chemical in question, and the health authorities should be apprised about the likely toxic releases from the plant, which will enable them in dealing with the aftermath of a toxic release with treatment appropriate to such casualties. Major off-site incidents are likely to require medical equipment and facilities additional to those available locally, and a medical "mutual aid" scheme should exist to enable the assistance of neighbouring authorities to be obtained in the event of an emergency.

7.3.5.8 Role of Government Safety Authority

This will be the factory inspectorate available in the region. Inspectors are likely to satisfy themselves that the organization responsible for producing the off-site plan has made adequate arrangements for handling emergencies of all types including major emergencies. They may wish to see well-documented procedures and evidence of exercise undertaken to test the plan.

In the event of an accident, local arrangements regarding the role of the factory inspector will apply. These may vary from keeping a watching brief to a close involvement in advising on operations in case involvement in advising on operations. In cases where toxic gases may have been released, the factory inspectorate may be the only external agency with equipment and resources to carry out tests.

7.4 Occupational Health and Safety

Large industries, in general where numerous activities are involved during construction, erection, testing, commissioning, operation and maintenance, materials and machines are the basic inputs. Along with the boons, the industrialization generally brings several problems like occupational health and safety.

The industrial planner therefore has to properly plan and take the steps to minimize the impacts of industrialization and to ensure appropriate occupational health, safety including fire plans. All these activities again may be classified under construction and erection & operation and maintenance. The proposed safety plan is given below:

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Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919719
E-mail : info@kanishksteels.in

ISO 9001 : 200

Date: 07/12/2022

To,

The Tahsildar,

Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

Dear Sir,

With regard to your above subject letter requesting us to contribute for Flag Day Celebration year-2022. We are herewith enclosing our DD No:005244 Dt: 06/12/2022 for Rs.15000/-(Fifteen Thousand Only).

Thanking You,

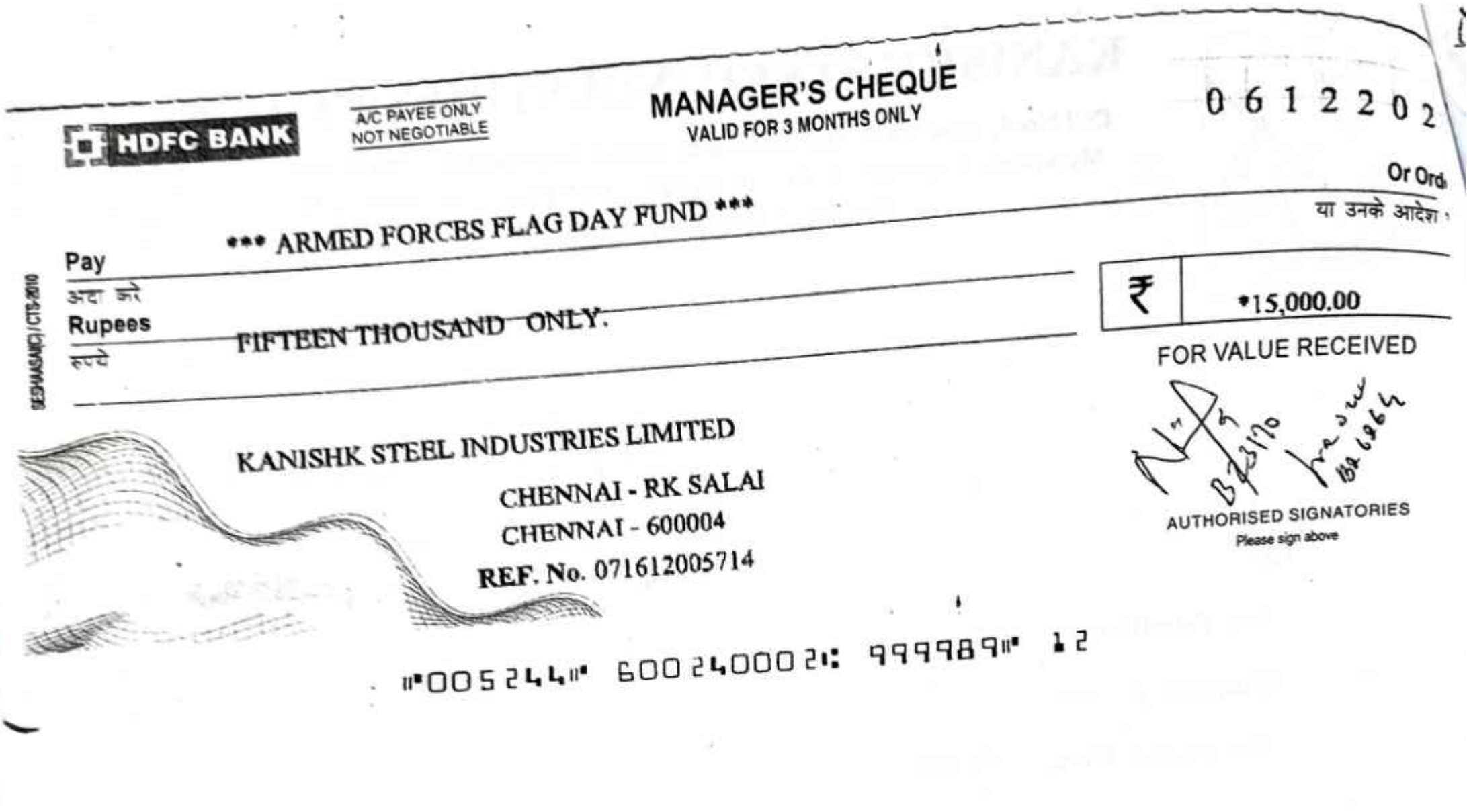
Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory

P.L. 996532

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CHENNAI - 600004
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Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date:10.11.2022

To,

The Executive Officer ,

Town panchayat, Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

Dear Sir,

With regard to your above subject letter requesting us to contribute for Flag Day Celebration year-2022. We are herewith enclosing our DD No:005156 Dt: 09.11.2022 for Rs.25000/-(Twenty Five Thousand Only).

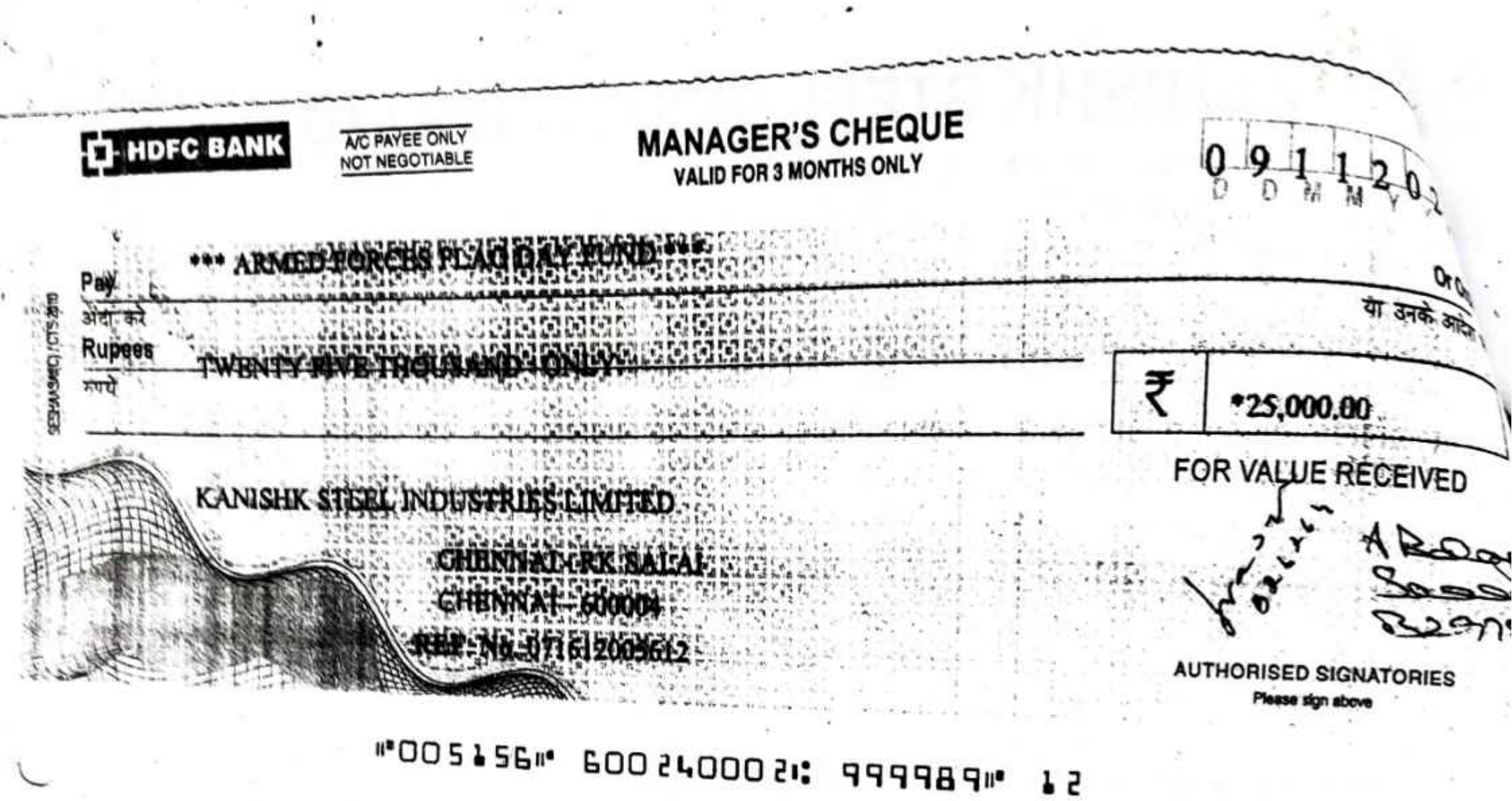
Thanking You,

Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory.

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REF No. 07612005612

AUTHORISED SIGNATORIES
Please sign above

"005156" 600240002: 999989" 12

விடுநர்

திரு. பா. தாமரைராஜன்,
செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
திருவள்ளூர் மாவட்டம்.

பெறுநர் ஒ.நே. ஸ்டேம்ஸ் கிளைட்
தூய்கோட்
கோல்டுஸ்பாட்

ந.க. எண்.37 / 2017 / அ1 நாள்.06.09.2017

அய்யா,

பொருள் : படைவீரர் நலம் – கும்முடிப்பூண்டி பேரூராட்சி – திருவள்ளூர் மாவட்டம் – நன்கொடை வசூல் செய்தல் இலக்கு நிர்ணயித்து ஆணையிட்டுள்ளது – படைவீரர் கொடி நாள் நன்கொடை வழங்கக் கோருதல் – தொடர்பாக.

பார்வை : மாவட்ட ஆட்சித் தலைவர், திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறை ஆணை ந.க. எண்.4900/2016/அ1 நாள்.22.02.2017.

திருவள்ளூர் மாவட்டம் கும்முடிப்பூண்டி பேரூராட்சிக்கு முன்னாள் படைவீரர் கொடிநாள் நிதி 2016 ம் ஆண்டிற்கு இலக்காக ரூ.3,00,000/– வசூல் செய்ய நிர்ணயம் செய்து பார்வையில் காணும் மாவட்ட ஆட்சித் தலைவர் திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறையில் உத்திரவிடப்பட்டுள்ளது. எனவே, தங்கள் நிறுவனத்தின் மூலம் ரூ.20,000/– க்கு ARMED FORCES FLAG DAY FUND என்ற பெயரில் வங்கி வரைவோலையாக (Payable at Tiruvallur) திருவள்ளூரில் மாற்றத் தக்க வகையில் எடுத்து இப்பேரூராட்சிக்கு அனுப்பி வைக்குமாறு அன்புடன் கேட்டுக் கொள்கிறேன்.

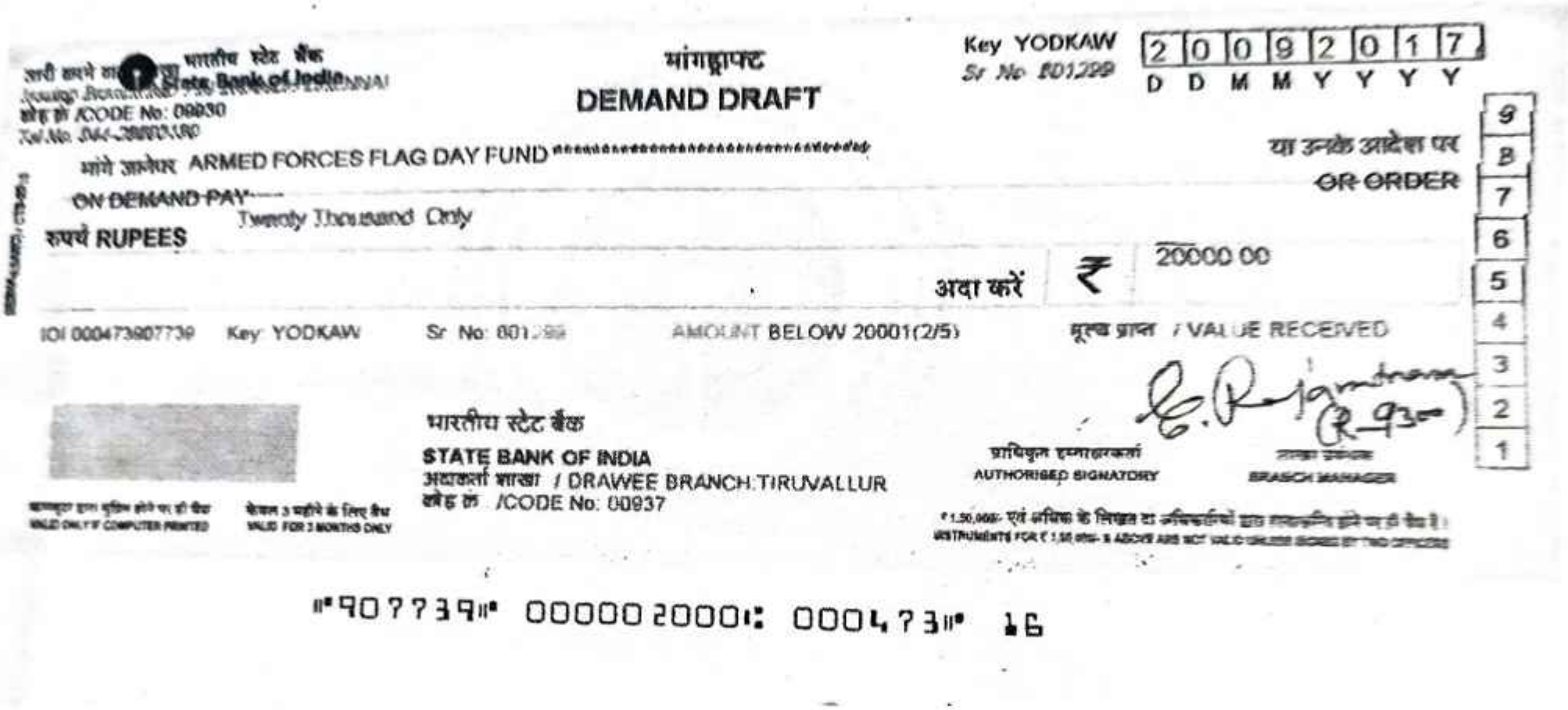
மேலும், இப்படை வீரர் கொடி நாளுக்கென வசூலிக்கப்படும் நிதி அந்நிய படையெடுப்புகளை முறியடிப்பதில் முனைந்து போரிட்டு இன்னுயிர் நீர்த்த மற்றும் உடல் உறுப்புகளை இழந்து நாட்டு வரலாற்று சுடர்மணிகளாய் ஒளிவிடும் போர் வீரர்களின் குடும்பத்தின் நலனிற்கு பயன்படுத்தப்படுகிறது. படைவீரர் கொடி நாளுக்கு வழங்கப்படும் நன்கொடைக்கு வருமான சட்டப்பிரிவு 80 (G) –ன் கீழ் வருமான வரி விலக்கு அளிக்கப்பட்டுள்ளது எனவும் தெரிவித்துக் கொள்ளப்படுகிறது. எனவே, கருணை உள்ளத்தோடு தாராளமாக நிதி உதவி அளிக்குமாறு தங்களை வேண்டி கேட்டுக் கொள்கிறோம்.

செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
திருவள்ளூர் மாவட்டம்

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1445604/2025/ADMIN(SEZ)

ஸ்ரீ மாத்தம்மா துணை

அருள்மிகு ஸ்ரீ மாத்தம்மா ஆலயம் திருவிழா

கங்கன்தொட்டி, கும்மிடிப்பூண்டி - 601 201.

நன்கொடை ரசீது

147

எண்: 168

தேதி 20/3/22

திருமதி/திரு. Kanishk தினேஷ் குமார்

அவர்களிடமிருந்து நன்கொடையாக ரூபாய் ..... ஒரு லட்சம் ரூபாய்

அன்புடன் பெற்றுக்கொண்டோம்.

ரூ. 100000/-

வசூலிப்பவர்

स्वच्छ गंगा कोष
Clean Ganga Fund

File No: CGF-01/2014-15/518/NMCG
Sr. No. CGF/2021-22/41

12th September 2022

Letter of Acknowledgement & Appreciation

To

M/s KANISHK STEEL INDUSTRIES LTD.
B-27(M) Sipcot Industrial Complex,
Gummidipoondi - 601201
Chennai
PAN: AABCK2367G

Dear Sir,

We hereby acknowledge the receipt of your valuable contribution of **₹ 6,98,200/- (Rupees Six Lakh Ninety Eight Thousand Two Hundred Only)** to Clean Ganga Fund through RTGS UTR NO: HDFCR52022090693932212 dated 06.09.2022

2. We sincerely thank you for contributing to this national endeavor to rejuvenate the River Ganga under your CSR obligations, and request for your continued support in coming years.

3. The donation will be utilized for various activities to support the national effort to restore and rejuvenate the River Ganga, including ecological protection through afforestation, in-situ bioremediation of drains, sewage treatment, river-surface cleaning, industrial effluent monitoring, public outreach and river front development including construction, renovation, and modernization of ghats and crematoria etc.

4. We thank you once again for your contribution and look forward to your continued support in rejuvenating the River Ganga.

CGF PAN No. AABTC7844F

Yours sincerely,

(Bhaskar Dasgupta)
ED (Finance), NMCG
(For CEO, Clean Ganga Fund)

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Gmail Regional Office Chennai <roefccc1@gmail.com>

Submission of compliance status of M/s Kanishk Steel Industries Ltd.

1 message

Kanishk Steel <kanishkgpd@gmail.com> Thu, Feb 20, 2025 at 1:28 PM
To: "moefccc1@gmail.com" <moefccc1@gmail.com>, "roefccc1@gmail.com" <roefccc1@gmail.com>

Dear Sir,

In continuation of the site visit to M/s Kanishk Steel Industries Limited on February 13, 2025, we hereby submit the compliance status of the conditions mentioned in the Environmental Clearance documents referred to during the visit.

Kindly find the attached list of documents and annexures for your reference.

Note : Google drive link for access list of documents and annexures :- https://drive.google.com/drive/folders/1N_g71y3OtfJ0bUEYNYV8WIibMEUU9RvC?usp=sharing

Thanks & Regards

Ashok Bohra
Director
KANISHK STEEL INDUSTRIES LTD
B-27M, Sipcot Industrial Complex
Gummidipoondi-601201
Ph:27922634/834
Fax:27922835

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"Save Environment!"

ANNEXURE - I

SAFETY TRAINING SESSION

SAFETY TRAINING SESSION

PLACE:

OP STEELS LTD

B-27 (M) SIPCOT Industrial complex,

GUMMUDIPOONDI - 601 201.

Date: 26th May, 2023.

By

Deputy Director (DISH) Mr.Durairaj

Deputy Director (DISH) Mr. G.Ashok

Director OP Steels Ltd Mr. Ashok

Participants : Staff & Employees of M/s OP Steels Ltd.

94

ANNEXURE II

SAFETY AUDIT

KANISHK

STEEL INDUSTRIES LIMITED,

Plot No. B27(M), SIPCOT Industrial Estate,

GUMMIDIPOONDI-601201



SAFETY AUDIT

KANISHK STEELS
Quality in Every Inch

Plot No. B27(M), SIPCOT Industrial Estate,
GUMMIDIPOONDI-601201

SAFETYAUDITREPORT

CONDUCTEDBY

WasmanPro
Environmental Solutions

Wasmanpro Environmental Solutions LLP
Chennai

ACKNOWLEDGEMENT

Thanks to the Management of KANISHK STEEL INDUSTRIES LIMITED, in general, Particularly Mr. Ashok Bhora, Director for reposing their trust and confidence in the professional competence of Wasmanpro Environmental Solutions LLP.,Chennai.

Also, Thanks to all the Head of Departments / Sections and other Executives of the Billet Furnace and Rolling Mill Division for evincing keen interest in the Audit activity and for extending their full support and cooperation to the Safety Audit Team in conducting the audit.

For the excellent coordination and planning by Mr Ashok Bhora, Director fully supported and extended the cooperation to complete the Audit within the stipulated time.

The courtesy and hospitality extended to the audit team by the Terminal Management are gratefully acknowledged.

Wasmanpro
Environmental Solutions LLP
Chennai

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2	INTRODUCTION	10
3	ABOUT SAFETY AUDIT	11
4	PROFILE OF THE COMPANY	14
5	MANUFACTURING PROCESS FLOW CHART	18
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EXECUTIVE SUMMARY

The information presented in the report is based on perusal of various documents and internal records, sample inspection of site and discussions held with employees and management representatives. The recommendations made herein in the report, are based on the conditions and systems prevalent at the Factory.

The success of the audit exercise lies in implementation of the recommendations made in the report. Due care has been exercised while framing the recommendations to make them simple, practicable, feasible and thereby workable. It is the responsibility of the top management to make available the necessary resources to implement the recommendations of this report.

The Company has obtained the certification of **ISO 9001 Standard**

Most of the statutory requirements are found to be complied with.

Fire license has been taken from Tamilnadu Fire and Rescue Services and consent to operate for air/water from Pollution control board.

SCOPE FOR IMPROVEMENT

- Machine safeguarding is the important one which helps to prevent from untoward incident while workmen working nearby or passing through.
- Some of the location like chain sprocket guarding is missing in the conveyor, fan mesh gap is not provided with suitable wire mesh fencing (gap shall be less than 4mm).
- Belt guard is to be provided for lathe Machines, coupling guard for motor pump in pump house, etc.
- Handrail and tow board at both sides in the staircase platform is recommended while crossing over the conveyors in Rolling Mill area.
- Provide adequate handrail at the open-ended platform (tilting area) in both the furnace unit.
- Handrail or suitable fencing is to be provided in the titling table area (three sides) except the area where molten metal tapped in ladle to prevent from accidental entry of workmen which may cause entanglement/trap.
- All the employees including contract workmen, sub contract workmen, staffs are to be provided safety training and record the attendance in the register.

- Considering the nature of hazard, more unsafe conditions and last fatal accident, deployment of qualified safety officer is recommended. Please refer the duties and qualification in "The Tamilnadu Safety officers, Duties, Qualifications and condition of service) Rules, 2005.
- Portable fire extinguishers are to be maintained once in three months and provided with tag system as per the guidelines of BIS 2190.Also the portable fire extinguishers are to be increased in the shop floor area with respect to the nature of hazard.
- 10 % of the fire extinguisher is to be stacked which helps to immediately replace the empty one in the plant premises.
- Eye wash fountain cum shower is to be erected in the safe area at both the furnace unit. In case of hot molten metal fall over the body during the melting operation, eye wash cum shower is to be used to prevent from third degree burn injury.
- Parking slot may be considered for keeping the two wheelers near the security or any safe area.Avoid parking of two wheelers near & inside the shop floor area.

- The SOP for various operations is to be prepared and displayed in bilanguage with pictorial message for better understanding.
- Smoke Detectors are to be installed in both the office and Stores.
- Wearing Ear plug or Ear muff is recommended due to high noise level particularly in the two furnaces area and rolling mill area.
- RCCB(30mA) is to be provided in the panel board particularly socket point for providing power supply to the portable equipment. E.g., lamp, portable welding machines, etc.
- Most of the mobile cranes are not having wind shield, wire rope pulley sheave, Bumper, Tire guard and over hoist limit switch. The same shall be done on utmost priority.

MAIN SUPPLY RECEIVING AREA

The power supply for furnace Area

33/550 x4 supply with two Transformers of

6000kva &5500kva rating

33/440 supply with 2000kva Transformer

The power supply for Rolling Mill Area

33/440 supply with 2 transformers of 2000kva

- Preventive maintenance of AB switches, maintenance of Earthing, Should be done periodically.
- Smoke detectors to be provided.
- Illumination to be made adequate.
- Panel body earthing is to be provided
- Aluminum dust deposited on the transformer need periodical immediate cleaning.
- All the wires are to be laid properly.
- Provide fire extinguisher like foam types in the transformer oil storage area
- Cable entry holes hall be plugged

INTRODUCTION

The Management of the Kanishk Steels Industries Limited, have requested Wasmanpro Environmental Solutions LLP, Chennai to conduct a Safety Audit of their plant located at Gummudipoondi, Chennai. The same was taken up during 09 & 10 Aug 2024. Audit Team representing Wasmanpro are

1. Mr.S. Ponsingh Mohanram
2. Mr.K. Chidambaranathan

In conducting the Safety Audit the guidelines contained in Code of Practice on Occupational Safety and Health Audit. (IS 14489: 1998) were followed. An opening meeting was held on 09 Aug 2024.Mr. Ashok Bohra Director and HODs of the Departments and senior executives attended the meeting. All the officers were explained about the methodology, objectives and goals of the audit to be conducted and also the audit elements. List of documents to be perused and required for the audit was given to them. An Audit schedule was prepared and circulated to the various Department Heads. Closing meeting was held on 10 Aug 2024 chaired by Mr. Ashok Bohra and all other HODs. Observations and findings of the auditors were discussed with them.

ABOUT SAFETY AUDIT

SAFETY AUDIT GOALS

Audits are normally designed to achieve one or more of the following goals

- To provide the auditee with an opportunity to assess its own OS&H system against standards and identify areas for improvement.
- To determine the conformity of the implemented OS&H systems with specified requirements and identify areas for improvement.
- To meet regulatory requirements.

AUDIT OBJECTIVES

Occupational Safety and Health(OS&H)audits are conducted

- To carry out a systematic critical appraisal of all potential hazards involving personnel, plant, services and operational methods.
- To ensure that OS&H system fully satisfy the legal requirements and those of company's written safety policies, objectives and progress.

AUDIT METHODOLOGY

- Appraisal of Audit procedures to the concerned executives.
- Familiarization visit to various sections of the unit.
- Visit to various sections for in depth study of hazard potential.
- Study of the maintenance system of storage vessels, pumps, pipes, equipment's, buildings etc.,
- Interaction with various levels of employees.
- Perusal of documents relating to OH&S.
- Appraisal of major observations to the functional heads who are decision makers to improve HSE system

AREASCOVEREDUNDERAUDIT

1. Safety Policy
2. Safety Education and Training
3. Compliance with Statutory Requirements
4. Accident Reporting, Investigation and Analysis
5. Risk Assessment Including Hazard Identification
6. Plant Safety Inspections

7. First Aid Facilities/Occupational Health Centre
8. Personal Protective Equipment(PPE)
9. Housekeeping
10. Machine and General Area Guarding
11. Material Handling Equipment
12. Electrical and Personal Safe Guarding
13. Ventilation, Illumination and Noise
14. Work Environment Monitoring System
15. Safe Operating Procedures
16. Work Permit System
17. Fire Prevention, Protection and Fighting System
18. Pollution Control, Hazardous Waste Treatment and Disposal
19. Contractors Safety System
20. HandTools
21. Pressure Vessels, and Utilities
22. Maintenance System and Procedures
23. Other Areas (Security & QC Lab)

PROFILE OF THE FACTORY

1.FURNACE UNIT

Steel billets are manufactured by melting of sponge iron/steel scraps in Two Twelve Ton Electric Induction Furnaces and formed into billets in a continuous casting machine.

The steel scraps of required grades are procured from indigenous and imported sources and brought to the unit. The scraps are sorted into different grades to control the composition of final product. Any visible Explosive, Pressurized materials (Shock absorber) and foreign matter like plastic etc., are removed from the scrap.

Required quantities of steel scraps are charged into the furnace by mobile trolley with the help of Magnetic cranes. Depending on the billet's quality, proportions of steel scraps and small quantities of Ferro Silicon are maintained. There are 2 Twelve Ton furnaces With Standby Unit is in the Factory. At any time both the furnaces will be in operation continuously to synchronize the flow of molten metal to the continuous casting unit .

The furnaces are Medium Frequency Induction Furnaces essentially consist of a power source, a coil, refractory lining, and housing for coil in the lining and crucible. The feed is melted in the furnace by induction heating. Any slag formed on the top surface of the Molten Metal is periodically removed out.

The side portion of the furnace is provided with Suction Hood with ducting and connected to an Induced Draft Fan outside the building to remove any small quantities of gases produced During melting process. The gases with dust particles and fresh air are passed through Bag Filter Dust Collector, where major portion of dust particles will be collected in sacks . It is periodically removed and used for landfill. The clean air from the Bag Filter Unit is connected to a Stack of about 30 – meters from ground level. The horizontal duct line and bottom portion of stack are provided with 2 or 3 hand holes to collect any dust particles settled there.

When the melting process is over, the furnace is tilted and the molten metal tapped in ladle. The ladle is already pre-heated to required time of about one hour in a Fire wood pre-heating Unit.

The molten metal in the ladle is taken to the Continuous Casting Machine. The molten metal is poured into the machine to make the Billets. The billets coming out from the machine is cut to required length and the same is send in red hot condition at 1100 degree Celsius for rolling.

The End cut portion of the billets arising while cutting is recycled into the subsequent batches of melting. The induction furnace and continuous casting machine are cooled by a closed loop recirculating cooling water system.

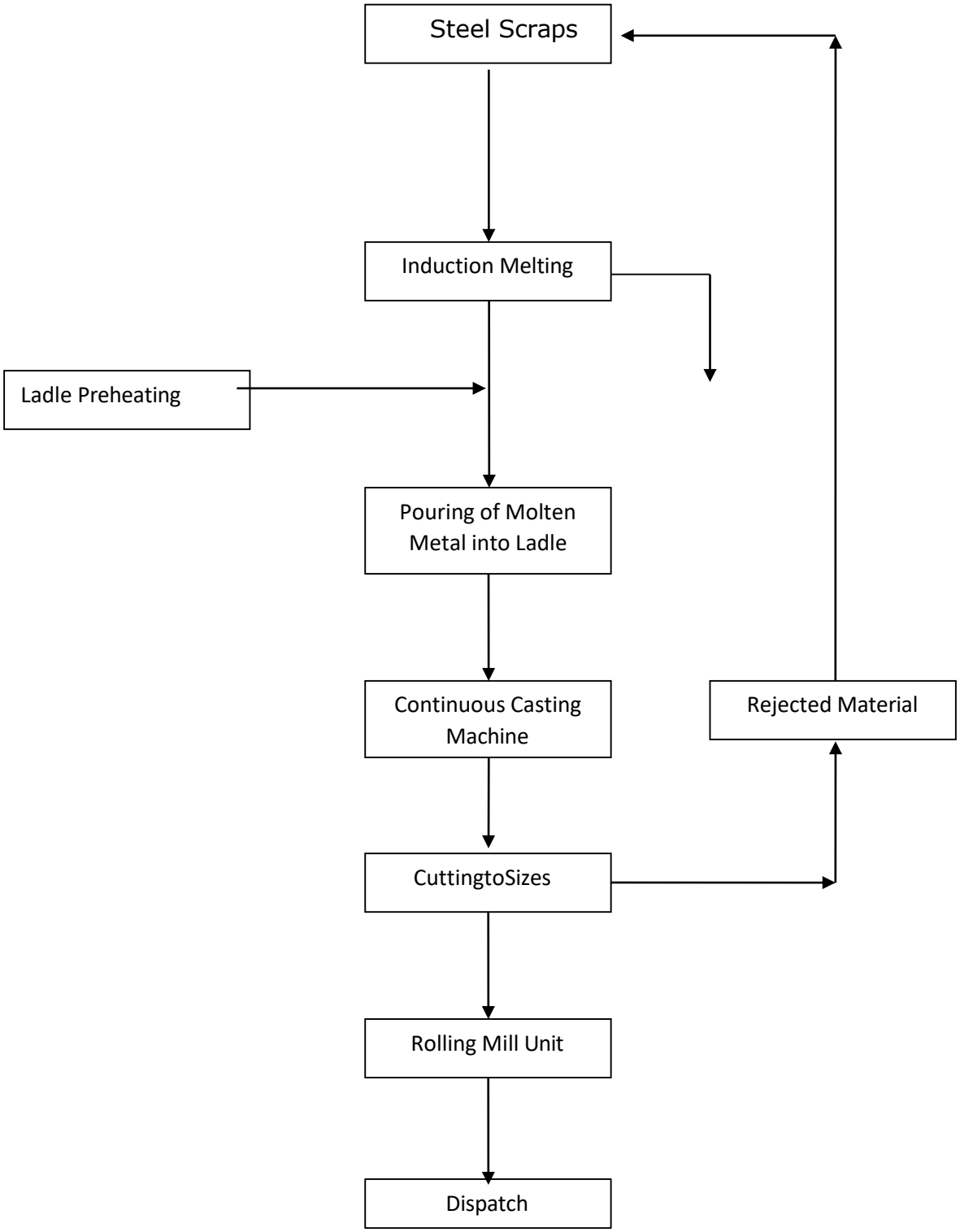
2.ROLLING MILL UNIT

The hot billets coming out from the continuous casting machine are directly fed into the rolling mill by Hot rolling technology. Direct Hot Rolling Technology is one of the advanced production management technologies in steel sector, which represents awareness of green and energy-saving ideology. Contrary to the conventional process of storage and cooling of the billet, the sensible heat from the continuous- cast billets is utilized by charging them directly into the rolling unit. But when billets excess of rolling capacity is produced or when the rolling mill is not in operation billets

are stored and it is re heated in a reheating furnace to the required temperature and send to rolling mill unit. In Direct Hot Rolling, the melt, tapped at approximately 1660-1700°C, is transferred to the continuous casting machine quickly without any significant heat loss and is poured into mould at around 1590°C. The melt is solidified and cooled down to a temperature of 1050 to 1100°C by PLC controlled water cooling and secondary direct spray cooling. The solidifying billet is cut immediately and is passed to the rolling mill, ensuring a minimal heat loss.

The whole operation is conducted at a particular temperature range and within a limited time span. The stages of rolling operation are comprised of heating of feed stock to roll able temperature, rolling the feeding stock in different mill stands, cropping the hot bar during the process of roiling between mill stands as applicable and subsequently finishing in form of hot rolled Sections like channel, Angle of different cross section in straight length to the desired finished goods specifications . The bars at almost ambient temperature are sheared to commercial length, stored and kept ready for dispatch.

ProcessFlow Chart



OBSERVATIONS AND RECOMMENDATIONS

No.	Name of the element	Observations	Recommendations and Guidance	Comments given based on the audit report draft
1	Occupational Safety&Health Policy (OS &H)	OHS Policy is not available in the plant premises	AsperTNFR1950,Rule62-BSUB RULE (6) A copy of the declared Health andSafetyPolicysignedbythe occupier shall be made available to the Inspector having jurisdiction over the factory and to the Chief Inspector. OHS Policy is to be prepared and approved by occupier. OHS policy should be issued to all employees in Hindi, Tamil and English	OHS Policy is to be Framed.
2	OS&H Organisation set Up	The Factory has no OS& H department. Presently HR department is taking care of Safety.	The company has to recruit/deploy one Qualified Safety Officer(Diploma in Industrial Safety approved by DISHor ME (Safety) approved by DISH .He should take care of safety functions in the plant premises.	Safety Officer is to be Appointed
3	Education and Training	Induction training for the employees	Safety Induction training is to be provided for all the employees and Training register is to be maintained	Action is to be taken

		,contract employees and subcontract employees is not Been provided	Training matrix is to be prepared and content of the training is to be developed according to the Manufacturing process and nature of the Hazards prevalent in the company	Action is to be taken
4	Employees participation in OS&H Management	Safety committee is not available	Safety committee is to be formed as per the guidelines of the Factories Act /Rules(Equal number of management and workmen Participation).	Safety Committee is to be formed immediately.
			The meeting shall be conducted once in three months and minutes are recordedandreviewedperiodically	To be done after forming safety commitee
5	Motivational and Promotional Measures	Motivational and promotional measures are not seen during the audit	Officers, Staff, workmen and contractors is to be motivated on the matters of safety and create awareness In the field of Safety.	Necessary actionto be taken
			Safety day celebration is to be Observed during March04 th every year	Necessary action to be taken
			Safety Posters are to be displayed in The plant area to bring about more awareness.	Necessary action to be taken
			.Safety Oath is to be	Complied

			administrated.	
			Conduct various competitions and Distribute prize which creates promotional activity in Safety	Necessary action to be taken
6	Safety Manual and Rules	No safety manual found	Safety manual and Safety Rules are to be prepared in line with Standard Operating procedure of Furnace Operation and rolling mill operation.	Necessary action to be taken
7	Compliance With Statutory Requirements	Management has taken the steps to comply with various statutory provisions.	Test certificate for all lifting tools and tackles is to be renewed immediately. e.g. EOT Cranes, Mobile Crane, Conveyers, Pressure vessels, etc. *. Public liability insurance is to be taken for the site.	Necessary action to be taken
			As per Indian electricity rules, the earth pits to be checked at least once in a year and the individual resistance shall be less than 5 ohms and the collective resistance also to be Measured.	Details to be produced
			Tunnel Conveyor and other conveyor–Competency certificate is to Be obtained (pl refer Part A General Definition) XI TNFR 1950	Necessary action to be taken

8	New Equipment Review / Inspection	Material Inspection system in the stores is found.	Safety aspects about the new equipment inspection are to be carried out by the concerned end user department head along with safety personnel like new Machines,wire rope slings, chain pulley block etc.	At present the maintenance team daily inspects the Store inward materials and given approved for GRIN.— (Goods Receipt cum Inspection Note.)
9	Accident Reporting, Investigation And Analysis	Accident Trend indicates there is one fatal accident in 2023. First Aid cases are not investigated. No evidence on near miss incident	A written procedure and system may be formulated for investigation of accidents. Team members or the officer to investigate the accidents may be fixed. The time limit for approval of investigation report, formulation of remedial measures and Implementation may be specified in the procedure and followed	Details to be produced
			*.All the first aid cases and any near miss incident is to be investigated and remedial measures to be taken fast.	Necessary action to be taken

10	Risk Assessment Including Hazard Identification	No Risk assessment i s found	The plant has to conduct HIRA(Hazard Identification, Risk assessment)and for all the high risk.Standard operating procedure is to be prepared and displayed	Risk and hazards area are identified and study done
			Risk associated with each hazard is to be identified, evaluated prioritized and remedial, preventive actions are to Be taken	Risk and hazards area are identified.
11	PLANT SAFETY INSPECTIONS	Periodic Plant Safety Inspections / Internal Audit will reveal the safe condition of the plant and machinery and expose the unsafe condition and unsafe act. It will be necessary to formulate necessary corrective actions.	Safety Inspections are to be conducted on a daily basis and observations are to be forwarded to The concern Head of Department	Details to be produced
			Appropriate e checklists are to be used.	Details to be produced
			Inspection findings are to be documented and corrective actions are to be followed-up on daily planning meeting.	Noted and followed

12	Health And Safety Improvement Plans / Targets	The desire and decisions of the management will be effective only when the Safety targets are to be prepared.	Safety is also a management's functional area; it requires a plan and a target. Hence Management has to prepare plan and target for the high hazard like Melting furnace Platform area, absence of guarding, damaged DB board etc.	Complied
			Work environment monitoring for the hazardous area (scrap Melting Induction Furnace area) in the plant may be undertaken, through personal samplers.	Necessary action to be taken
			Conduct specialized training programmes in electrical safety, Material handling equipment, Statutory provisions, etc	Necessary action to be taken

13	First Aid Facilities/ Occupational Health Centre	Only basic medicines are available in the First Aid boxes and not all the prescribed medicines as per Rule 63of Tamilnadu Factories Rules An ambulance van is not available in the factory.	*.The medicines are to be checked once in a week by the OHS Centre department employees and refilled as and when required, if needed. A Register is also to be maintained for checking the medicines in the FirstAid (FA) boxes	Now all are available

<table>
<tr><td rowspan="10">14</td><td rowspan="10">PERSONAL PROTECTIVE EQUIPMENT (PPE)</td><td rowspan="10">All the workers Working in the high noise level area are not wearing earplugs or earmuffs</td><td>Durationperday in Hours</td><td>Sound Level dB(A) Slow response</td><td rowspan="10">Ensure that all the workers exposed to high noise level area wear earplugs or earmuffs</td></tr>
<tr><td>8</td><td>90</td></tr>
<tr><td>6</td><td>92</td></tr>
<tr><td>4</td><td>95</td></tr>
<tr><td>3</td><td>97</td></tr>
<tr><td>2</td><td>100</td></tr>
<tr><td>1½</td><td>102</td></tr>
<tr><td>1</td><td>105</td></tr>
<tr><td>½</td><td>110</td></tr>
<tr><td>¼orless</td><td>115</td></tr>
<tr><td></td><td></td><td>Some ofthe Contract workmen who are employed in the Plant Area are found not wearing shoes and Helmet.</td><td colspan="2">PPE plays a vital role in accident mitigation & prevention in industrial operations.</td><td>Now using</td></tr>
</table>

			The workers working in and around furnace platform are prone to hot molten metal Radiation /metal splash over, special protective equipment like Fire retardant coveralls, Aprons, Safety shoes, Leg guard and Helmet with face shield is to be provided for the workers working in furnace area. All the PPEs used should meet the Bureau of Indian standards.	Now Using
			Fire retardant and heat retardant clothing shall be provided to all the workers working on the platform of induction furnace.	Necessary action to be taken
			Respirator like P2 Class (95 %) protection level mask shall be provided for the workers engaged in the furnace area.	Necessary action to be taken
			Mandatory PPE like Safety Shoe, Safety Spectacle and Safety helmet is must for all the workers entering the plant premises	Now available

			Eye wash fountain cum Shower is to be provided in the furnace and Rolling locations.	Available
			Ensure that all the workers exposed to high noise level area wear earplugs or earmuffs	Supplied PPE
15	HOUSEKEEPING	Housekeeping needs to be improved	Dust bins with colour identification for different types waste like ordinary, hazardous waste etc is to be implemented.	Complied
		Rolled steel Materials are stacked haphazardly in The warehouse	Material stacking is to be done in proper way	Complied
			5 S systems are to be introduced and housekeeping helps better safety in the site.	Necessary action to be taken

16	Material handling equipment	a.Hook latch is not found in most of the EOTcranes.	Hook latch is to be provided for the EOT cranes	Necessary action to be taken
		b. Bridgewheel bearing– high Noise level is noticed.		Necessary action to be taken
		c. In the cabin of EOT crane, no protective wind shield is found.	Maintenance of EOT like bridge wheel, bearing etc. is to be checked and replaced, if necessary.	Necessary action to be taken
		d. All the EOT cranes are tested by competent person	Windshield glass is to be provided for all cabins.	Competent certificate is available

			Testing date and Due date is to be painted in the EOT crane	Necessary action to be taken
			g. Preventive maintenance of mobile crane is to be carried out periodically. Rectify all the observations as given	
		g. All the mobile cranes are not in good condition .	Creating a safe and secure environment for overhead crane operations is a multifaceted endeavor that involves a combination of safety devices, operator training, regulatory compliance, and a strong safety culture. Following safety devices crucial to overhead crane operations, should be provided and maintained for safe operation: **Limit Switches:** Preventing over-travel and collisions by automatically stopping crane movements when predefined limits are reached.	Necessary action to be taken

			Overload Protection Systems: Safeguarding against lifting excessive loads by providing indicators, cut-off mechanisms, and load monitoring.	
			Emergency Stop (E-Stop) Systems: Enabling immediate cessation of crane movements in emergency situations.	
			Anti-Collision Devices: Preventing collisions through laser-based and RFID-based systems that monitor crane proximity and positions.	
			Crane Cameras and Visualization Systems: Enhancing visibility and awareness for crane operators.	
			Warning Lights and Audible Alarms: Providing visual and auditory signals to alert personnel to crane movements and hazards.	
			Load Monitoring Systems: Ensuring accurate load weight calculations and preventing overloading.	

			Electrical and Power Protections: Mitigating electrical hazards and maintaining power integrity.	
			Crane Sway Control: Reducing load swing during lifting, positioning, and transporting operations.	
		g. Preventive maintenance of mobile crane is to be carried out periodically.	As large no of overhead cranes are in operation a Safety inspection Checklist in the format below should be prepared and Inspections should be carried out periodically.	Y e s N o N / A Any Specific observations or Comments
			01.Is the rated load of the crane plainly marked on each side?	
			02.If the crane has more than one hoisting unit, does each hoist have its rated load marked on it or its load block?	
			03. Is this marking clearly legible from the ground or floor?	
			04.Is there a minimum clearance of Three (3) inches over head and two (2) inches laterally provided and maintained between crane and obstructions?	

			05. Are only designated and competent personnel permitted to operate the crane?	
			06. Are stops provided at the limits of travel of the trolley?	
			07. Are bumpers capable of stopping the crane provided where required?	
			08.Do the sheaves and ropes of hoisting equipment meet the requirements	
			09.Are periodic inspections performed on cranes, hooks, ropes, slings, chains, & hoists in accordance with rules	
			10. Are all new cranes and extensively repaired or altered lifting devices load tested at 120 % prior to use ? Is evidence of the test readily available in the form of the MFG'S written certification or maintenance records?	
			11. Are crane hooks inspected during annual inspection for cracks utilizing magnetic particles or other suitable crack detection /inspection methods?	
			12. Are crane hooks removed from service when the throat opening exceeds more than 15 % of normal, or the hook shows more than a 10 degree twist from the plane of the unbent hook or shows signs of cracks?	

			13. Do hooks have safety closure latches properly positioned and functional?	
			14. Are hoists, chains, slings and hooks marked to indicate the item identification number, load rating and next periodic inspection date?	
		e. Manual trolley is not available for carrying the cylinders	Manual trolley and cylinder trolley is to be fabricated or purchased for moving the cylinder safely.	complied
		f. Chain sling supported with manmade round ring.	f. Manual ring connected with chain isto be checked with non-destructive testing.	Necessary action to be taken
17	Ventilation, illumination and noise	Cool drinking water is to be provided in the plant premises		Provided

		b. Check the illumination in the plant areaand improve the lightinglumen(As per factories act, not less than 65 luxandfollowth e BIS 3646 Part I,II,III	Illumination study is recommended to confirm the adequacy of illumination at all working places during day as well as at night.	Necessary action to be taken
18	WORK ENVIRONMENT MONITORING SYSTEM	Lux level sound level, Indoor air quality sample may be done in Periodic manner	The pollutants likely from the process are to be identified. Industrial hygiene survey has to be done	Necessary action taken
19	OCCUPATIONAL HEALTH	Medical examination has been carried out forEye Examination,Pre employment examination	Audiometry test is recommended for those working in Rolling mill unit dueto high noise level Eye examination has to be done for all the EOT and mobile crane operators .	Necessary action to be taken Done

20	SAFE OPERATING PROCEDURES	It is seen that safe operating procedures are available for only few operations. No SOP is displayed in the Plant area.	Standard operating procedure is to be prepared for all the activities and services in the plant operation and Maintenances. The SOPs are to be displayed in all the critical areas.	Necessary action to be taken
			Fire extinguisher operating procedure is to be displayed in the plant areas	Necessary action to be taken
21	WORKPERMIT SYSTEM	There is no work permit system in the plant.	1.Establish and communicate procedure for Heightwork permit system and line clearance system	Necessary action to be taken
			2.Follow Lockout and Tag out System for the electrical isolation	
			3.Before issuing height work, contract Workmen shall be imparted height work safety precautions.	
			4.Line management is responsible to take care of contract workmen engaged in the height work	

22	FIRE PREVENTION, PROTECTION ANDFIGHTING SYSTEM	Portable fire extinguishers are kept in the plant but not sufficient and adequate.	For every 15 meters, there should be one suitable fire extinguisher deployed in the location.	Necessary action to be taken
		Portable fire extinguishers are not maintained and serviced as perBIS 190 Standard	Portable fire extinguisher shall be maintained and serviced as per IS 2190 Standard	Now as per standard
23	Contractor Safety Systems	Most of the contract workmen are found without Safety shoe.		Now available
		No Safety training Is imparted for the workmen		Contract workers should be included While giving safety training to regular workers.
			They should be trained on safe work practices, safety rules and regulations, fire safety, PPEs ,first aid, emergency planning, Pollution control measures, etc.	Necessary action to be taken

24	PRESSURE VESSELS AND UTILITIES	Pressure vessels are not marked properly. check all the PV and Ensure the details below	Pressure vessels like Air receiver to be marked legibly. Safety Pressure relief valve is to be checked at least once in year	Complied

CONCLUSION

As explained by Heinrich, accidents prevention is both science and art. It represents control of performance of man, machine and physical environment. The word 'control' includes prevention as well as correction of unsafe conditions and circumstances.

The accident prevention task requires both, the immediate approach and long-term approach of instructions, training and education. This task must be performed before the accident and injury occur. Subsequent efforts after unpreventable accidents are also necessary.

Management has to take action to comply all Audit suggestion which will lead towards the Safety excellence.

AUDIT OBSERVATIONS WITH PHOTOS AND COMPLIANCE REMARKS

SNO	OBSERVATIONS	PHOTO	RISK LEVEL	RECOMMENDATIONS	APPLICABLE STANDARD	REMARKS
1	Gas Cylinders are kept in horizontal position		High	Cylinders are to be kept in upright position. The same shall be kept in safer location	Factories Act/Gas cylinder rules	COMPLIED
2	No flash back arrestor and non return valve is provided for the gas cutting equipments		Medium	Flash back arrestor and non return valve is strictly to be provided in the gas cutting set cylinders and trolley is recommended for safe movement	Factories Act/Gas cylinder rules	
3	Chain sprocket-No guarding		High	Guarding for rotating parts of chain sprocket is to be provided	Fact & Rules.	Necessary Action to be Taken

4	Six Feet Rolling Cooling Water pit is in open condition		medium	Provide Suitable handrail with toe board around the water storage pit.	Fact & Rules.	Necessary Action to be Taken
5	Safety hook latch is missing in the hoist hook		medium	To be provided	Fact & Rules.	Necessary Action to be Taken
6	V belt drive -No guarding		high	Mesh Guarding for v belt drive is to be provided	Fact & Rules.	Necessary Action to be Taken
7	Water stagnant is noticed in the scrap handling starting area		medium	The floor level should be increased and pawed with hard surface for easy movement	Factories Act/Means of Access	Necessary Action to be Taken

8	Diesel Drums and LPG cylinders are stores in open ground		high	Diesel drums should be stored in separate place with fire safety arrangement LPG cylinders are to be stored in a ventilated closed area	Fact & Rules.	Necessary Action to be Taken
9	V belt drive -No guarding		high	Guarding for rotating parts of chain sprocket is to be provided	Fact & Rules.	Necessary Action to be Taken
10	Electrical DB boards are in open condition		high	DB board shall be provided with canopy and properly closed	CEA	Necessary Action to be Taken
11	Unwanted cables are noticed near the Work area		medium	It should be removed and kept in the stores	CEA/Tamilnadu Electricity Rules	Necessary Action to be Taken

12	The hot billet Crossover conveyor is unsafe and is very close to conveyor in the rolling mill area		high	Cross over conveyor should be with handrail and toe board for safety High	SchXI Conveyor s-TNFR	Necessary Action to be Taken
13	Metal angle is used as electrical main bus bar connecting the eot crane		High	Shredded electrical conductor to be used	CEA/ Fact &Rules	Necessary Action to be Taken
14	Electrical DB- enclosure not Provided		High	Enclosure to be provided for the box	CEA	Necessary Action to be Taken
15	No Proper rubber mat is provided in front of the electrical panel. Also name plate of the module is to be legibly painted in the panel unwanted drums and materials stored		High	Good Rubber mat is to be provided/Remove all the paint drums. This may cause fire hazard .	19(5)ofCEA/ IS-I5652:2006	

16	Pile of heavy scrap stored in furnace platform and hand rails not provided to three sides of the platform		Medium	Pile of heavy scrap stored in furnace platform is to be removed .d provide hand rails with toe board to three sides of the platform	Fact & Rules.	Necessary Action to be Taken
17	the Stacking and storing of M.S finished sections to high level as it may fall to the ground .		Medium	The finished materials should not be stored morethan ten feet and side support is to be provided to avoid accidental fall	Fact & Rules.	Necessary Action to be Taken
18	The air receivers used in the factory are not marked with safe working pressure, identification/Pressure vessel Nos, ET and HT Tested dates		Medium	The air receivers used in the factory should be t marked with safe working pressure,identification no of Pressure vessels, ET and HT Tested dates	Fact & Rules.	Necessary Action to be Taken
19	Some of the asbestos sheets in the furnace division roof is broken and hanging precariously		Medium	Broken Asbestos sheets as to be replaced with new ones immediately	Fact & Rules.	Necessary Action to be Taken

20	LPG Cylinder stored in the compressor room		medium	LPG Cylinder kept in the compressor room should be removed and stored in the designated place	Fact & Rules.	Necessary Action to be Taken
21	The workers working near the induction furnace are not provided with heat resistant covers		High	The workers working near the induction furnace should be provided with heat resistant asbestos aprons apart from other PPEs	Fact & Rules.	Necessary Action to be Taken
22	Fencing is not provided to the transformer area Underneath of the transformer oil traces are available which need immediate attention.		High	The transformer area should be fenced with gate and maintenance of the transformer should be done periodically	CEA	Necessary Action to be Taken
23	The diverter of billets coming from concast machine is operated manually in a unsafe manner		Medium	The diverter used for diverting billets coming from concast machine to rolling mill or storage area should be operated by mechanical/electrical system with pendent control for safety of the worker	Fact & Rules.	Necessary Action to be Taken

24	The cable trench in the furnace area is open and not covered		Medium	The open cable trench in the furnace area should be covered with cement slabs.	Fact & Rules.	Necessary Action to be Taken
25	Handrail with toe board is not provided at both sides of the stair steps		Medium	All Handrail should be provided with toe board at both sides of the stair steps	Fact & Rules.	Necessary Action to be Taken
26	The workers working in the rolling mill are not provided with personal protective equipments like helmet,handgloves etc		High	The workers working in the rolling mill should be provided with and wear while working personal protective equipments like helmet, hand gloves etc	Fact & Rules.	Necessary Action to be Taken

ANNEXURES

N M S

Certificate of Stability

(As per Section 7(1) rule 12-B 3 & (4) of the Factories, 1948 & Rules 1950)

1.	Name of the Factory	:	M/s. KANISHK STEEL INDUSTRIES LIMITED.,
2.	Village, town & district in which the Factory is situated	:	Plot No : B - 27, (M), Sipcot Industrial Estate, Gummidipoondi ,Tiruvallur (Dt) - 601 201.
3.	Full Postal Address of the Factory	:	Plot No : B - 27, (M), Sipcot Industrial Estate, Gummidipoondi ,Tiruvallur (Dt) - 601 201.
4.	Name of the Occupier of the factory	:	Mr. ASHOK BOHRA - Whole Time Director.
5.	Nature of manufacturing process to be carried on in the factory	:	Steel Re - Rolling Mill.
6.	Number of floors on which workers will be employed	:	Ground + First floors with RCC & 'A' Type North Ventilated Sheet Roof. Work areas - TMT - Rolling Mil / Stock Yard Big & Small Section mil /Work Shop Ground Floor with Sheet Roof. Staff Quarters /Lab - First floor with RCC Roof.

I certify that I have inspected the building on 05.04.2024 in which M/s. KANISHK STEEL INDUSTRIES LIMITED* is housed and examined the various parts including foundations as shown in the complete plans approved by - The Deputy Chief Inspector of Factories, Div - II. In his letter No. R Dis 1383 / 1992 Dt. 30.03.1992 with special reference to the machinery, plant, etc., that have been installed.

I am of opinion that the building has been constructed / Extended in accordance with the plans approved by - The Deputy Chief Inspector of Factories, Div - II. In his letter No R Dis 1383 /1992 Dt. 30.03.1992 that it is structurally sound and that its stability will not be endangered by its use as a factory for the Manufacture of - Steel Re - Rolling Mill * for which the machinery, plants, etc., Installed are intended.

Date : 05.04.2024

DATE 5.4.24

R. CHANDRASEKARAN, B.E., Competent Person
App by the Directorate of Industrial safety & Health
Govt of TN For Issuing Building Stability Certificate
Notification No. III / 2135 / 2021 Dt - 16.04.2021 - 2024

The Certificate may be valid for the period from the date of issued to 3 years and Certificate is subjected to maintaining the building as per the accepted standard. Any Alterations / Additions / Demolitions or Shifting of the equipment to be carried out with the approval of the Factory Directorate followed by fresh stability certificate.

FIRE SERVICE LICENSE

(Under Section 13 of the Tamil Nadu Fire Service Act 1985 and with Tamil Nadu Fire Service Rules 1990 Appendix III)

L. DIS. No. TN-3520240620103, 7382 / B / 2024 **Date: 28 - 06 - 2024**

LICENSE is here by granted under section 13 of the Tamil Nadu Fire Service Act 1985, for **Manufacturing Of Rolling Mill, LPG Cylinder 30 No's & Furnace Oil 50 KL** in the name of **M/s. KANISHK STEEL INDUSTRIES LIMITED** within the jurisdiction of **Gummidipoondi Sipcot** at **No. B-27(M), Sipcot Industrial Complex, Gummidipoondi Taluk, Thiruvallur District.** With total building area of **6038.69 Sq. M.** with Subject to the condition mentioned below noted there on and such other conditions as may be prescribed. The above premises inspected by **Station Officer, Gummidipoondi – Sipcot** on **26.06.2024**.

CONDITIONS

As per Tamil Nadu Fire Service Act 1985 Section 13 of Chapter II and appendix V of this Act.

1. According to G.O. No.713 Home (Police-17) Department, Dated 17.08.2005 the Permanent employees & Safety employees who is responsible for the safety of working in the company should be trained.
2. This License is valid for **One Year** from the date of issue.
3. Regular License has to be obtained from the Competent Authority.
4. The Following Fire & Life safety Systems / Arrangements provided in the building should be kept in good working condition always.
   a) Portable First Aid Fire Extinguishers – 24 No's
   b) Fire Bucket with Sand – 10 No's
   c) First Aid Box- 01 No
   d) Over Head Tank 10 KL & Reservoir Sump- 60 KL.
5. As Per NBC 2016 The Following Fire & Life Safety System / Arrangements Should Be Provided Within 06 Months
   a) First Aid Hose Reel System & Down Comers With 450 LPM Pump Should Be Provided.
   b) Manually Operated Electronic Fire Alarm Should Be Provided.
6. If there is any deviation from the Government Rule and Act the LICENSE issued will Stand Cancelled.
7. Mock Drill should be conducted every 06 months along with nearby Fire & Rescue Service Stations.

(Office seal with date 28 JUN 2024)

DISTRICT OFFICER,
FIRE & RESCUE SERVICES,
THIRUVALLUR DISTRICT,
THIRUVALLUR.

To:

M/s. KANISHK STEEL INDUSTRIES LIMITED,
No. B-27(M), Sipcot Industrial Complex,
Gummidipoondi Taluk, Thiruvallur District.

Copy To: Deputy Director, Fire & Rescue Service, North western Region, Vellore-1.

WasmanPro
Environmental Solutions

PERMIT FOR HOT WORK

Date:	Permit Serial Number:
Equipment No. / Name:	Permit valid from: Hrs Date:
Block/Location:	Permit Expires at : Hrs Date:

1. Description of the Work:

If welding is to be carried out in a Confined area, Confined Space work permit shall be attached.	**Additional permits details/Number.** (To be furnished by the workplace in charge)

	(A) Checks / Works to be Carried out by the Work Place Department.	YES	NO	NA
	Whether the welding can be avoided by any alternative means			
1	Area should be cleaned thoroughly and should be checked for presence of solvent vapors. If vapors are found it should be recleaned			
2	Area should be made free from odor			
3	Breathing air-feeding line provided into the reactor.			
4	Surroundings of the vessel made free from hazardous chemicals or containers for a radius of 30 ft minimum.			
5	Isolated equipment / Vessel, Elec.fuse carriers collected from Mr.			

Name & Sign. of the Mfg.Block / Dept. Supervisor	Name & Signature of the Mfg Block / Department in charge

	(B) Checks / Works to be Carried out by the Maintenance people	YES	NO	NA
1	Positioning of the machine should be at the nearest possible place to ease the supervision during welding			
	No flammable substances should be around the welding set			
	Two cables without any joint should be laid to the welding place from the machine			
2	Welding equipment used should be of good quality			
3	Person has been explained the work and he understood it			
4	Name and sign of the welder / Name and sign of the Maintenance supervisor / Name and sign of the Maintenance Incharge			

	(C) Checks to be Carried out and recommendations are to be made by the Safety people.	YES	NO	NA
5	Whether the cables welding cable and earthing cable both are run from the welding set to the job?			
6	Whether the cables are having any joint in between			
7	Whether any flammable substance is found along the routing of the cable			
8	Whether the area is safe for welding			
9	Fire extinguisher is arranged near the welding area along with fire man			
10	Personal protective equipments recommended (Mark the tick over required item)			

a) Safety Gloves b) Safety goggles c) Helmet/Face shields/Hoods d) Dust Masks
e) Any other specific

Note: Incase of Emergency alarm followed by Siren Blows continuously this permit stands cancel.

Name & Signature of the Safety In-charge with date and time.	Signature of the Plant Incharge.

Permit Close-out notes

The work **HAS / HAS NOT** been completed. The area is safe.	**Issuer:** Name and Signature with Date and Time	**Receiver:** Name and Signature with date and Time.

White-Job executing department copy / Pink: Safety Department copy / Yellow: Work Area/Department copy

ADDITIONAL PERMIT MAY BE REQUIRED	
Date	Permit Number
Equipment No. / Name	Permit valid from Hrs Date
Block/Department	Permit Expires at Hrs Date

1. Description of the Work:

2. Hazards and Dangers (To be reviewed by the person who is raising the permit in his area, tick the segment if applicable)

Fire and Explosion	Flammable Liquids / Gases	Combustible Material	Flames/Hot work	Other source of ignition	Emergency system
Health.	Hazardous Substances.	Biological risks	Asbestos.	Noise / Temperature/Ventilation	Manual Handling
Mech / Services.	Closed pipe line or equipment.	Special Services/ Steam	Moving machinery/ Control system	Stored energy / Pressure	Exposure to electricity
Access	Working at Height.	Falling Objects	Difficult access.	Danger to others	Confined space
Environmental	Waste disposal.	Emission to air.	Discharge to effluent	Spillage.	GMP

3. Specify additional permits details/Number.
(To be furnished by the workplace in charge)

4. Pipe lines or associated equipments
(To be reviewed by the person who is raising the permit in this work place)

5. Further Preparations and Precautions. / Personal protective equipments to be used while working
(To be reviewed by the person who is raising the permit in this work place)

Additional Permits	Yes	No
Hot Work		
Vessel entry / confined space		
Heights / Fragile roof work.		
Electrical Work		
Excavation Work		
Pipe line drained and purged?		
Pressure relieved?		
Free of Hazardous substances?		
Helmet / Face Shield.		
Gloves.		
Safety Boots (Gum boots)		
Overalls / Area Clothing.		
Air Suits / Air Hoods.		
Dust Mask.		
Others		

6. Isolations: (Identification of the Plant/Service by work place in charge and mechanical / electrical isolation by Maintenance)

Plant / Service line isolated and it ID.	Isolation type (Example; Locking off, disconnection)	Name of the person/s that are going to work over the Plant / Service to isolate.	Sign.	Time.

Note: Incase of Emergency alarm followed by Siren Blows this permit stands cancel

Name & Signature of work place/ Dept. Incharge with date and time.	Name & Signature of Maintenance Incharge with date and time.	**Reviewed the total permit contents** Name & Signature of the safety Incharge with date and time.

Permit Close-out notes

The work **HAS / HAS NOT** been completed. The area is safe.	**Issuer:** Name and Signature with Date and Time (Maintenance departments)	**Receiver:** Name and Signature with date and Time (Initiator of the permit)

White-Job executing department copy / Pink: Safety Department copy / Ye... Work Area/Department copy.

ANNEXURE III

M/S KSIL MOU WITH HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

MEMORANDUM OF UNDERSTANDING

A Memorandum of Understanding was made on **1ST JANUARY, 2023** at Chennai, Tamil Nadu.

BETWEEN

"HNX Healthcare Pvt Ltd" hereinafter referred to as **"HNX Healthcare"** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"HNX Healthcare Pvt Ltd"**

AND

"KANISHK STEEL INDUSTRIES LTD" has its office at NO B-27 M & N Sipcot Industrial Complex, Gummidipoondi – 601201 (Formely OP STEEL LIMITED, NO B-27 M Sipcot Industrial Complex, Gummidipoondi-601201), Tamil Nadu, India, hereinafter referred to as **"KANISHK STEEL "** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"KANISHK STEEL"**.

Whereas, **"KANISHK STEEL"** has had a mutual discussion for the purpose of Operation & Maintenance of Health Checkup and OPD / IP facilities for their existing & retired employees and to their dependents.

HNX Healthcare Pvt Ltd have agreed to provide Operation & Maintenance of Health Checkup and OPD/IP for their existing & retired employees and to their dependents visiting the Hospital at the below mentioned addresses:

ALPHA HOSPITALS GUMMIDIPOONDI	**340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201**

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Both the parties do hereby agree as follows:

This MOU is valid for **2 (Two)** years from **1ST JANUARY, 2023**

1. **HNX Healthcare** agrees to provide health checkups/ Pre employment health checks and all diagnostic treatments, consultants and other procedures for OP visits / IP and during emergencies to the employees of "KANISHK STEEL REFINERIES" (Existing & Retired employees and their dependents).

   As a Privileged member **"KANISHK STEEL"**, associates and family members can avail the following benefits at **ALPHA Hospitals** by displaying their ID & letter from concerned authority.

   - In Patient 10% discount (Excluding cost of medicines, implants, consumables).
   - IP discount is not applicable during health insurance covering patient treatment expenses.
   - During outpatient treatment 10% discount will be given on investigations and consultations.
   - HNX Healthcare will provide half yearly health check-up camps and quarterly Health awareness talks for free of cost in a year and also conducts paid camps as many as the corporate requirements.
   - Ambulance services will be provided at free of cost for IP admission patients within Chennai limits.
   - Home-care services will be provided along with doctor and nurse based on the emergency need along with medicines at the patient place itself with special consideration will be on confirmation letter from the company stating to provide for the consent employee or retired person.
   - Health checkup packages / rates will be charged by HNX Healthcare as agreed, mentioned in the annexure-1

2. The employee will produce a letter from authority & employee ID card, at the time of admission applicable if the payment is done by **"KANISHK STEEL"**.

3. In case of emergency/ accident/ serious illness, the employee can be admitted to the hospital on producing his identity card / mediclaim card, in such case we will extend necessary medical facilities and intimate you within 24hours. "**KANISHK STEEL**", will respond immediately and mail the letter of treatment approval advise
4. HNX Healthcare will submit the hospital bill within 7 days attested by the hospital authority if the payment is made by "**KANISHK STEEL**" the payment will be cleared within 30 days through NEFT Payment.
5. HNX Healthcare will give Treatment to "**KANISHK STEEL**" existing & retired employees and their dependents, based on Cash basis or Credit basis, On submission of Authorization letter / Mail issued by the Company in favor of the employee.
6. One point of contact needed from the "**KANISHK STEEL**" for any emergency to be reported to ALPHA HOSPITALS, who will be trained by us for the first aid management and intimating to the hospital regarding the emergency, based on emergency requirement ambulance will be sent to receive the patient for further management.
7. Referral procedure

"**KANISHK STEEL**"- Alpha Hospital - Secondary/ Tertiary care

Time duration: 45 - 50 mins MAX, they patient will get admitted in higher center after getting stabilized in Alpha Hopsitals

Governing Law, Dispute Resolution & Jurisdiction

a) This Agreement shall be governed by the Laws of India.

b) The agreement may be terminated by any of the parties by giving one month prior written notice to the other party.

c) In the event that the representatives of each Party fail to resolve the dispute, either Party shall be free to approach the Courts for resolution of the dispute.

d) The Courts of Chennai, Tamil Nadu shall have exclusive jurisdiction over any disputes arising out of this Agreement.

The parties have caused this MOU to be executed by their respective duly authorized representatives.

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

MR. ASHOK KUMAR BOHRA
Director & GM
KANISHK STEEL INDUSTRIES LTD
Authorized Signatory

Dr. GIRISH DEVANADAN. P
Medical Director
HNX Healthcare Pvt Ltd
Authorized Signatory

MR. BALA GOVIND. S
Chief Operating Officer
Alpha Hospital
Authorized Signatory

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTH CARE PVT LTD

ALPHA HOSPITAL

Annexure : 1

Whole Body Health Checkup Details - Male- Rs 3999/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HbA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL - HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL 2023

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Per Rectal Examination (For Men)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Reticulocyte Count
PSA for Men
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
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Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Whole Body Health Checkup Details :- Female - Rs 4499/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HBA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL : HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Pap Smear (for Woman)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Mammogram for Women
Reticulocyte Count
Ultrasound of Breast for woman if required
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pre- Employment Health checkup - Rs 1400 /-
1. E.C.G.
2. X-Ray Chest
3. Blood Tests
Complete Haemogram (which includes RBC Count, Hemoglobin, Total WBC Count, ESR, Packed Cell Volume, Differential Count)
Blood Sugar Fasting
Blood Grouping & RH Type
Urea, Creatinine
Cholesterol
Urine Routine
4. Ophthalmic Examination
5. ENT Examination (With Audiometry Test)
6. Spirometry
7. General Examination

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7067Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

AUTHORIZED SIGNATURE

ALPHA HOSPITAL

Annexure :2

Locations details:

ALPHA HOSPITALS GUMMIDIPOONDI	340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201



HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Annexure: 3

Hospital Contacts:

Contact Person for all Appointments/ Enquiry:

1. Dr Vinod Babu / 7277723456
(Chief Executive Officer)
Timing: 24/7

2. Mr. NITIN PRASAD / 9790850909
(DGM - Corp. Relations)
Timing (9am – 6pm)

ALPHA HOSPITAL

ANNEXURE - IV

HAZARDOUS WASTE AUTHORIZATION

AUTHORISATION No. 22HFC43641507 dated 30/08/2022

Proceeding No. T2/TNPCB/F.0119GMP/HWA/OL/GMP/2022 dated 30/08/2022

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, GUMMIDIPOONDI Taluk, Tiruvallur District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. Application No. 43641507 dated 22/02/2022 and resubmitted on 05.07.2022 under HOWM Rules, 2016
2. HWA-IR.No.0119GMP/HWA/OL/DEE/GMP/2022 dated 20/07/2022

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 22HFC43641507 and dated : 30/08/2022

2. The Director of M/s. KANISHK STEEL INDUSTRIES LIMITED is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation, Collection, storage & transportation of hazardous or other wastes or both on the premises situated at S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, GUMMIDIPOONDI Taluk, Tiruvallur District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	0.3 T/Annum	Generation, Collection, Storage, Send to HW Recyclers for recycling (Recyclable)
2	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.2-Wastes or residues containing oil	1 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)
3	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1-Exhaust Air or Gas cleaning residue	25 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)

3. This authorization shall be valid for a period upto 31/03/2027.

The Authorization is issued subject to the following general and special conditions annexed.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.08.31 13:13:57 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire ,etc and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty".
7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.
8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.

9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of Authorisation.

11 The importer or Exporter shall bear the cost of import or export or mitigation of damages if any.

12 An application for the renewal of an authorization shall be made as laid down under these Rules.

13 Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.

14 Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

D. SPECIFIC CONDITIONS - Actual Users (Recyclers/Pre-processors/Co-processors)

1. The actual user shall be responsible for safe and environmentally sound management of hazardous and other wastes
2. The actual user shall procure and process the hazardous and other wastes for reuse, recycle, pre-process, utlise including co-processing for beneficial purposes only.
3. The utilisation of hazardous and other wastes as a resource or after pre-processing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from TNPCB in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.
4. The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation
5. Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user
6. The actual user handling hazardous and other wastes shall file an annual return in Form 4 to TNPCB on or before the 30th day of June following the financial year to which that return relates.

7. The actual user or the transporter shall immediately intimate TNPCB through telephone, e-mail about the accident and subsequently send a report in Form 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation
8. The actual user, importer or exporter shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other wastes.
9. The actual user shall not be permitted to import hazardous and other wastes from any country to India for disposal.
10. The actual user shall not be permitted to import hazardous and other wastes specified in Schedule VI of the rules.
11. The actual user shall import hazardous and other wastes from any country only for recycling, recovery, reuse and utilisation including co-processing.
12. The actual user shall import the hazardous waste as in Part A of Schedule III after obtaining prior informed consent of the exporting country and the permission of the Ministry of Environment, Forest and Climate Change
13. The actual user shall maintain records of the hazardous and other waste imported by him in Form 3 and the record so maintained shall be made available for inspection.

ADDITIONAL SPECIFIC CONDITIONS

1. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time while handling of hazardous waste.
2. The unit shall collect, store and send Schedule-1 HW category 5.1-Used or spent oil generated to TNPCB Authorised Recycler having valid consent under Water & Air Acts & Authorization under HOWM Rules, 2016 for recycling.
3. The unit shall collect, store and send Schedule-1 HW categories 35.1- Exhaust Air or Gas cleaning residue generated & 5.2-Wastes or residues containing oil to TNPCB Authorised Pre-processor M/s GEPIL having valid consent under Water & Air Acts & Authorization under HOWM Rules, 2016 for Pre-processing and send to Co-processing in cement kilns.
4. The unit shall store the hazardous wastes in containers, barrels etc with labelling on impervious floor under closed shed within the premises for a period not exceeding ninety days as per the Rule 8 of HOWM Rules, 2016.
5. The unit shall procure/purchase the iron & steel scraps from generating industries from domestic sourcing as permitted for captive use for the production of steel re-rolled products as consented.
6. The unit shall import the iron & steel scraps as mentioned in the other wastes listed under Basel No. B1010 in Part-D of Schedule-III of the HOWM Rules, 2016 using Import Export Code certificated issued O/o of Additional Director General of Foreign Trade, Chennai as permitted directly for captive use purpose as raw material in the production of product steel re-rolled products and shall restrict/avoid sourcing imported metal scrap thro' various traders
7. The unit shall store the imported &domestic sourced ferrous metal scraps in an earmarked area under shed within the premises.
8. The unit/actual user shall obtain all required information from authorities of the exporting country on the nature of waste imported and ensure that no explosive or other material causing environmental damage is imported along with the said waste
9. In case of environmental damages arising due to improper handling of hazardous wastes including accidental spillage during generation, storage, processing, transportation and disposal, the unit shall be liable to implement immediate response measures, environmental site assessment and remediation of contaminated soil/ groundwater/ sediment etc. as per the "Guidelines on Implementing Liabilities for Environmental Damages due to Handling & Disposal of Hazardous Wastes and Penalty" published by CPCB
10. The unit shall maintain records in FORM-3 for hazardous waste generation & disposal, metal scraps imported, utilised, furnish Annual Returns in FORM-4 for every financial year before 30th June & manifest document in Form-10 for transport of hazardous waste as per provisions of HOWM Rules, 2016.
11. The unit shall update information on HW details in the display board installed at the factory entrance gate regularly.

12. The unit shall operate with valid Consent under Water Act & Air Act and Authorization under HOWM Rules, 2016 at all times.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.08.31 13:14:22 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

To
The Director
KANISHK STEEL INDUSTRIES LIMITED
Plot No. B-27 (N,M & S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district
Pin:600004

Copy to:

1. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS (ISSUED ALONGWITH AUTHORISATION)

Name and address of the Industry-Actual users	KANISHK STEEL INDUSTRIES LIMITED Plot No. B-27 (N,M & S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district
OCMMS File No	0119GMP/HWA
Mobile No	9940048723
E-mail Id	kanishkgpd@gmail.com
Passbook Registration No	PB/22HFC43641507
Date of issue	30/08/2022
Validity period	30/08/2022 To 31/03/2027

Type and quantity of the Hazardous & Other Wastes permitted for procurement and recycling:

SI No	Hazardous & Other Wastes Type	Quantity with unit	Source
1	Schedule - III, Other Waste, Part-D, B1-Metal and metal-bearing wastes, Basel No. B1010- IRON & STEEL SCRAP	30000 T/Annum	Imported
2	Schedule - III, Other Waste, B1-Metal and metal-bearing wastes, B1010-IRON & STEEL SCRAP (domestic sources)	6000 T/Annum	Domestic

RAMASAMY RAJAMANICKAM

Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.08.31 13:14:59 +05'30'

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS

Sl No	Date	Name and Type of the Waste	Total Quantity received (MT)	Received from (in case of import, details of bill entry)	Date of arrival at the unit's premises with seal and signature of designated officer of the unit



தமிழ்நாடு तमिलनाडु TAMILNADU Rs.100/-
Kanishk Steel Industries Ltd

CP 260327

V.S.KANNAN
Stamp Vendor. L.C.No.5839/A4/93.
G.N.T.Road, Gummidipoondi.
Tamil Nadu - 601 201.

AGREEMENT FOR THE DISPOSAL OF HAZARDOUS WASTE
"CATEGORY 5.1 - USED / SPENT OIL"

This AGREEMENT is executed at Gummidipoondi on the 22nd day of April, 2022

BETWEEN

M/S Kanishk Steel Industries Limited B27 M & N & S Sipcot Industrial Complex Gummidipoondi - 601201) represented by its Director, Mr.Ashok Bohra

AND

M/s KING INDUSTRY – Used Oil RR, Madurai, TNPCB Authorized refinery situated at S.F.No. 9/1 of Vitangulam Village, Madurai East Taluk, Madurai District, (Herein after called KING INDUSTRY) represented by its Owner Mr. R. Kannan.

KANISHK STEEL INDUSTRIES LTD
Director

For KING INDUSTRY
R. Kannan
Proprietor

Kanishk Steel Industries Limited and KING INDUSTRIES have mutually agreed for the Disposal (by Kanishk Steel Industries Limited) Collection, Reception, Storage, Transportation, Treatment and Handling of Hazardous waste - **"Category 5.1 - Used / Spent Oil"** for the quantity of 0.3 **Tons / Annum.**

1. Kanishk Steel Industries Limited an established organization in the business of Steel Melting and Rolling of MS steel and generate 0.3 **tons of hazardous waste "category 5.1 - Used / Spent oil"** per annum and looking for its disposal

2. M/s KING INDUSTRY is in the business of Collection, Reception, Storage, Transportation, Treatment, Disposal and Handling of **Used / Spent Oil** under Hazardous waste **category** 5.1 in accordance with the **Hazardous Waste (Management and Handling) Rules 2016**

3. M/s KING INDUSTRY has Tamil Nadu Pollution Control Board's valid authorization for reprocessing of **hazardous waste "category 5.1 - Used / Spent oil"**

4. M/s KING INDUSTRY has agreed to purchase the used oil generated in **Kanishk Steel Industries Limited**; as and when available for disposal

5. Kanishk Steel Industries Limited has agreed to submit **Form 10** and related certificates to M/s KING INDUSTRY and KING INDUSTRY to submit the copy of Form 10 to TNPCB

Now, therefore in consideration of the premises the parties hereto witnessed and it is hereby agreed by and between them as under.

1. In consideration of the above recitals and the terms set out herein, Kanishk Steel Industries Limited hereafter sells the **hazardous waste "category 5.1 - Used / Spent oil"** to M/s KING INDUSTRY

2. Unless terminated, this agreement shall be valid for a period of 5 years from the date herein above mentioned. The parties may extend the term for such further period as may be agreed mutually

3. Kanishk Steel Industries Limited shall sell the used oil to M/s KING INDUSTRY at the rate prevailing in the market

4. M/s Kanishk Steel Industries Ltd has to arrange for transportation of **hazardous waste "category 5.1 - Used / Spent oil"**

5. Kanishk Steel Industries Limited shall make sure that the used oil collected in M.S Barrels should be free from water, solid particles & grease

In witness whereof the parties hereby caused the instrument to be executed as of the day, month and the year indicated above.

For KANISHK STEEL INDUSTRIES LIMITED **For KING INDUSTRY**

For KING INDUSTRY

Director

(Owner)

Proprietor

KING INDUSTRY
Melur-20.

TAMILNADU POLLUTION CONTROL BOARD

AUTHORISATION No. 22HFC42317752 dated 22/02/2022

Proceeding No. T2/TNPCB/F.0316MDU/HWA/OS/MDU/2022 dated 22/02/2022

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. KING INDUSTRY , S.F.No. S.F.No.9/7, Shed No. 43, VIDATHAKULAM Village, MADURAI EAST Taluk, Madurai District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. Application No 42317752 dated 08.02.2022 under HOWM Rules, 2016
2 HWA-IR.No 0316MDU/HWA/OS/AEE/MDU/2022 dated 15/02/2022

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 22HFC42317752 and dated : 22/02/2022

2. The Proprietor of M/s. KING INDUSTRY is hereby granted an Authorisation based on the enclosed signed Inspection report for Reprocessing of Used oil and Waste oil and Generation & Handling following of hazardous or other wastes or both on the premises situated at S.F.No. S F.No.9/7, Shed No. 43, VIDATHAKULAM Village, MADURAI EAST Taluk, Madurai District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /4. Petroleum refining or re-processing of used oil or recycling of waste oil	4.1-Oil sludge or emulsion	60 T/Annum	Generation, Collection, Storage & Send to Authorized Cement Industry for co processing (Utilisable)
2	Schedule I /4. Petroleum refining or re-processing of used oil or recycling of waste oil	4.4-Organic residue from processes	240 T/Annum	Generation, Collection, Storage & Send to Authorized Cement Industry for co-processing (Utilisable)
3	Schedule I /4. Petroleum refining or re-processing of used oil or recycling of waste oil	4.5-Spent clay containing oil	135 T/Annum	Generation, Collection, Storage & Send to Authorized Cement Industry for co-processing (Utilisable)
4	Schedule I /33. Handling of hazardous chemicals and wastes	33.2-Contaminated cotton rags or other cleaning materials	1.5 T/Annum	Generation, Collection, Storage & Send to Authorized Cement Industry for co-processing (Utilisable)
5	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	0.2 T/Annum	Generation, Collection, Storage & Send to Authorized Cement Industry for co-processing (Utilisable)
6	Schedule I /33. Handling of hazardous chemicals and wastes	33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	110 T/Annum	Generation, Collection, Storage & Recycle (Utilisable)

Only for the use of
M/s Kanishk Steel Industries Ltd
Gummidipoondi
25/04/2022

TAMILNADU POLLUTION CONTROL BOARD

PASSBOOK FOR MAINTAINING RECORDS OF HAZARDOUS AND OTHER WASTES PURCHASED BY THE ACTUAL USERS (ISSUED ALONGWITH AUTHORISATION)

Name and address of the Industry-Actual users	KING INDUSTRY M/s. KING INDUSTRY, S.F.No.9/7, Shed No.43, Mahia Industrial Estate, Vilankulam Village, Uranganpatti, Sivagangai Road, Madurai - 20
OCMMS File No	0316MDU/HWA
Mobile No	9842133544
E-mail Id	kingindustry43@gmail.com
Passbook Registration No	PB/22HFC42317752
Date of issue	22/02/2022
Validity period	22/02/2022 To 31/03/2026

Type and quantity of the Hazardous & Other Wastes permitted for procurement and recycling:

Sl No	Hazardous & Other Wastes Type	Quantity with unit	Source
1	Schedule I-5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications - 5.1 Used or spent oil	9600 KL/Annum	Domestic
2	Schedule I-5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications - 5.2-Wastes or residues containing oil	500 KL/Annum	Domestic
3	Schedule I-5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications - 5.3-Waste cutting oils	1000 KL/Annum	Domestic
4	Schedule I-3. Cleaning, emptying and maintenance of petroleum oil storage tanks including ships -3.1-Cargo residue, washing water and sludge containing oil	1000 KL/Annum	Domestic
5	Schedule I-3. Cleaning, emptying and maintenance of petroleum oil storage tanks including ships -3.4-Ballast water containing oil from ships	250 KL/Annum	Domestic

RAMASAMY RAJAMANICKAM

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

Only for the use of M/s. Kanishk Steel Industries Unit Gummidipoondi

issued on 25/04/2022



தமிழ்நாடு தமிழ்நாடு TAMILNADU

CP 713400

Green Gene Enviro Protection and Infrastructure Private Limited
Plot No. S-60, Phase-III,
SIPCOT Industrial Estate,
RANIPET - 632 405.

05.04.22

DRAFT AGREEMENT

THIS AGREEMENT is made on this **27th day of April 2022** (hereinafter referred to as the **"Effective Date")** between **Green Gene Enviro Protection and Infrastructure Private Limited** (Unit – Ranipet), a company incorporated and registered under the provisions of the Companies Act, 1956 and having its registered office at 370, S V P Road, Cigaretwala Building, Opp. CBI, Prathna Samaj, Nr Harkishandas Hospital, MUMBAI - 400004, Maharashtra, INDIA **(CIN: U73100MH2005PTC262100)** (hereinafter referred to as "GGEPIPL" which expression shall unless repugnant to the context or meaning thereof shall mean and include its successors, permitted assigns) of the FIRST PART;

AND

M/s.KANISHK STEEL INDUSTRIES which is a Company / Partnership Firm / Proprietary Concern / Society / Association / Co-operative Management duly incorporated under the Provisions of Companies Act,1956 and having its registered office / factory/works at **OLD 4 NEW 7, NA, THIRU-VI-KA, 3RD STREET,ROYAPETTAH HIGH ROAD, CHENNAI, CHENNAI, TAMIL NADU, 600004** (hereinafter referred to as "the Generator" which expression shall unless repugnant to the context or meaning thereof, shall mean and include its successors, assigns and affiliates) of the OTHER PART.

For Green Gene Enviro Protection and Infrastructure Private Limited

Signed for & on behalf of GGEPIPL

Authorised Signatory

KANISHK STEEL INDUSTRIES LTD.

Signed for & on behalf of Generator

Director

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GGEPIPL and the Generator shall be individually referred to as Party and collectively as Parties, hereinafter.

WHEREAS:

A. GGEPIPL is, *inter alia*, engaged in the business activity of development, operations and maintenance of infrastructure projects for hazardous waste management and has been granted Consent to operate an **'Alternate Fuel Resource Facility'** at Plot NO. S-60, Phase-III, SIPCOT Industrial Estate, Ranipet, District Vellore, Tamil Nadu (India) (hereinafter referred to as "AFRF") by Tamil Nadu Pollution Control Board (hereinafter "TNPCB") as per **The Environment (Protection)** Act, 1986 and **Hazardous Waste (Management and Transboundary Movement) Rules, 2016** and amended thereafter (hereinafter referred to as "the Rules").

B. The Generator is a member of the Industrial Waste Management Association (hereinafter called as "IWMA"), Tamil Nadu and is, *inter alia*, engaged in business activity relating to **Steel Industry** and is generating Hazardous Liquid/Semi Solid/Solid Waste (hereinafter referred to as "Hazardous Waste") as specified in the Rules.

C. GGEPIPL represented that it is fully capable and competent to treat and dispose of the Hazardous Waste in full compliance of applicable laws, rules and regulations and accordingly the Generator is desirous of sending its Hazardous Waste to the AFRF for necessary treatment and safe disposal of the same by GGEPIPL.

D. GGEPIPL has agreed to manage, treat and dispose of the Hazardous Waste of the Generator at its AFRF and whereas the Generator agrees to send its Hazardous Waste to GGEPIPL on the terms and conditions stated hereunder.

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND OBLIGATIONS SET FORTH HEREIN, BY THE PARTIES HERETO, IT IS AGREED AS FOLLOWS:

1. DEFINITIONS & INTERPRETATIONS

DEFINITIONS

1.1. **"Authorization"** shall mean any governmental or related regulatory authority's permission, in written format, for complying with any of the obligations envisaged under the terms of this Agreement.

1.2. **"Day"** means a period of Twelve (12) consecutive hours beginning at 08.00 hours and ending at 20.00 hours.

1.3. **"Effective Date"** shall mean the date on which this Agreement has been entered

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into and takes effect between the Generator and OGEPIPL.

1.4. **"Financial Year"** means a year starts from 1st day of April month of the year and ending on 31st day of March month of next year.

1.5. **"Month"** means a period beginning at 08.00 hours on the first day of a Calender Month and ending at 20.00 hours on the last day of same Calendar Month.

1.6. **"Time"** shall be stated in hours and minutes and shall mean Indian Standard Time.

1.7. **"Week"** means a period of Seven (7) consecutive days beginning from a specific day.

1.8. **"Year"** means a period of Three Hundred and Sixty Five (365) consecutive days or Three Hundred and Sixty Six (366) consecutive days when such period includes a Twenty Ninth (29th) day of February beginning at 8.00 hours from a day.

INTERPRETATIONS

1.9. The descriptive headings of Clauses are inserted solely for convenience of reference and are not intended as complete or accurate descriptions of the content of such Clauses.

1.10. The use of words in the singular or plural, or with a particular gender, shall not limit the scope or exclude the application of any provision of this Agreement to such person or persons or circumstances unless the context otherwise permits.

1.11. References to a Party hereunder shall include such Party's successors, permitted assigns and any Persons deriving title under it.

1.12. References to any agreement or document including this Agreement shall include such agreement or document as amended, modified, varied, novated, supplemented or replaced from time to time in writing signed by the concerned parties.

1.13. The terms "hereof", "hereto" and "hereunder" and similar expressions mean and refer to this Agreement and not to any particular Clause of this Agreement. The terms "Recital", "Schedule" or "Clause" mean and refer to the specified Recital of, Schedule to, and Clause of, respectively, this Agreement.

1.14. Any grammatical form of a defined term herein shall have the same meaning as that of such term.

1.15. The words "including" and "includes" herein shall always mean "including, without limitation" and "includes, without limitation", respectively.

2. SCOPE OF AGREEMENT

OGEPIPL shall collect, treat, dispose and fully manage the Hazardous Waste of Generator at its Alternate Fuel Resource Facility, Ranipet, Tamil Nadu in full compliance of all applicable laws, rules and regulations and the norms and standards prescribed thereon.

Signed for & on behalf of OGEPIPL
(Ramboll Cleantech Private Limited)

Signed for & on behalf of Generator
ANNISHA STEEL INDUSTRIES LTD.
Director

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3. DATE OF AGREEMENT & PERIOD OF CONTRACT:

Valid until 26th day of April 2027 and the present agreement shall remain in force for a period of 05 years ("Term").

4. EXTENSION OF AGREEMENT

a. After expiry of the above Term, the Agreement can be renewed at the option of the Generator on the same terms and conditions and for which the Generator shall give 60 days advance notice before the expiry of the Term and a fresh agreement at least one month before the date of expiry of this agreement shall be entered into.

b. The agreement shall stand terminated even during the minimum period prescribed under Clause 14.1 herein below in case of the following eventualities:

(i) On Authorization to GGEPIPL being cancelled, refused, or not granted by TNPCB.
(ii) On expiry of Authorization granted to the Generator and the same having not been renewed by the Generator or of the same having been not granted by TNPCB.
(iii) On expiry of the present Agreement, where no fresh agreement is signed and executed between parties hereto as mentioned above.

c. Both the parties hereto further agree, in case of the present agreement coming to an end owing to any of the aforesaid eventualities, it will be the sole responsibility of the Generator to manage its Hazardous Waste in accordance with the relevant provisions of law and that GGEPIPL will not be responsible in any manner whatsoever with respect to Hazardous Waste of the Generator, unless the eventuality stated in sub-clause (i) of clause 4.b. above occurs due to any fault, lapse or negligence on the part of GGEPIPL or any reasons attributable to GGEPIPL and in which case GGEPIPL shall be fully responsible to duly indemnify and hold the Generator harmless for all claims, loss, damages and consequences..

5. PURPOSE OF THE AGREEMENT

GGEPIPL shall manage the Hazardous Waste of the Generator at its Alternate Fuel Resource Facility, Rampet, Tamil Nadu, otherwise referred to as the AFRF, as specified in the Rules.

6. REGISTRATION FEE AND SECURITY DEPOSIT

6.1. The Generator shall have to make the payment of **Rs.10,000/- (Fifty Thousand Rupees Only) 18% GST extra***, exclusive of all taxes, towards its registration with GGEPIPL, for availing GGEPIPL's services (hereinafter "**Registration**"), which shall not be refundable in any event.

6.2. The Registration under this agreement shall not be transferable in any manner whatsoever, except in the event of change in name of the Generator's company or firm name, as applicable, without change in the management or control of Generator's organization.

For Green Gene Energy Protection Pvt. Ltd.

Signed for & on behalf of GGEPIPL

Authorised Signatory

Signed for & on behalf of Generator

MANISHK STEEL INDUSTRIES LTD

Director

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7. MANAGEMENT CHARGES

7.1. The management charges, exclusive of all taxes (hereinafter "**Management Charges**"), which is presently in force in accordance with the type of Hazardous Wastes that is suitable for co-processing and that which has been agreed to be sent to GGEPIPL by the Generator, is described as follows:

Sr. No.	Type of Wastes	Schedule Name	Accumulated QTY. in MT	Annual Generation QTY. in MT	Management Charges* (Rs. per MT)
1	WASTE OR RESIDUES CONTAINING OIL	5.2	1MT	1MT	Rs.14500 /-
2	EXHAUST AIR OR GAS CLEANING RESIDUE	35.1	1MT	25MT	

* (Attach sheets in case of more types of wastes)

7.2. The Generator shall be liable to pay GST apart from the above Management Charges.

7.3. The Management Charges that the Generator shall pay to GGEPIPL, shall be subject to revision every year/from time to time. The Management Charges that the member shall pay to GGEPIPL shall be subject to annual upwards revision by 5% (percent) per annum. The annual upward revision shall be effective from 1st April of each financial year. The annual upward revision shall be applicable irrespective of the clients become member during any month of a financial year.

7.4 GGEPIPL shall test and provide a comprehensive analysis of Hazardous Wastes, on identified parameters, as required for the AFRF, at standard rates agreed to with IWMA. This payment shall be in addition to the T&M Charges (as defined below).

7.5. The Comprehensive Analysis Report as specified above shall determine the acceptance of waste based on the waste characteristics and waste acceptance criteria given by GGEPIPL.

For Gujarat Gena Enviro Protection and Infrastructure Private Limited

Signed for & on behalf of GGEPIPL
Authorised Signatory

AMISHK STEEL INDUSTRIES LTD.
Signed for & on behalf of Generator
Director

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8. TRANSPORTATION

8.1. GGEPIPL shall provide Dumpers or Tractors or Tankers or Trucks for waste lifting, if the Hazardous Waste that is to be transported, available with Generator, is equal to or more than one vehicle capacity. Generator should ensure full capacity loading of the vehicle provided for waste lifting. If the vehicle is returned empty or partially filled, full capacity of vehicle will be charged.

8.2. Transportation cost per metric tonne (hereinafter "MT") of Hazardous Waste / per kilometer transportation of such Hazardous Waste from the location of the Generator's unit to GGEPIPL.(Two way) shall be recovered at the following rates (hereinafter "**Transportation Charges**)

Sr.No.	Description	Rate *
1.	**Transportation**	**Rs.6.31*KM*MT (Vehicle capacity or waste capacity whichever is higher)**

8.3. The Transportation Charges are subject to revision, only in consultation with and consent of IWMA. The annual increase in Transportation Charges shall be effective from 1st April of each financial year.

8.4. GGEPIPL shall provide Dumpers or Tractors or Tankers or Trucks for waste lifting, if the Hazardous Waste that is to be transported, available with Generator, is equal to or more than one vehicle capacity. In other circumstances GGEPIPL shall provide Dumpers or Tractors or Tankers or Trucks for waste lifting once a month. In either case, the Generator shall be charged on the capacity of the vehicle being provided for waste lifting.

9. OBLIGATION OF THE GENERATORS

9.1. While entering into the present agreement with GGEPIPL, the Generator shall submit all categories of Hazardous Waste they desire to send to AFRF, in writing. The said categories of Hazardous Waste shall be as per the parameters specified in the Schedules of the Rules. The Generator shall also give true and correct information related to the quantity, physical and chemical characteristics, nature, and toxicity of such Hazardous Waste substance(s).

9.2. The Generator shall get the Authorization from TNPCB, permitting the Generator to send its Hazardous Waste to GGEPIPL and it shall be the responsibility of the Generator to get the said Authorisation renewed from time to time.

9.3. The Generator has agreed to declare the Hazardous Waste quantities, to be sent for processing to AFRF, on an annual or monthly basis (as per the Rules) and confirm to a set schedule of waste supply to GGEPIPL.

For Green Gene Enviro Protection and Infrastructure Private Limited

Signed for & on behalf of GGEPIPL

Authorised Signatory

BANSHI STEEL INDUSTRIES LTD

Signed for & on behalf of Generator

Director

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9.4 The Generator shall provide basic information of the process of generating its Hazardous Waste or the chemicals used, along with Material Safety Data Sheet (hereinafter "MSDS"), for each of its products and its characterization to GGEPIPL or facility operator.

9.5. GENERATOR shall maintain detailed records and provide details of Hazardous Waste as follows:

9.5.1. Provide details of Hazardous Waste in the storage container as per Form 8 of the Rules.

9.5.2. Provide details about the Hazardous Waste and its characteristics like Explosive or Ignitable or Corrosive or Toxic or Odor compounds in the Transport Manifest Form (Form 10 of the Rules).

9.5.3. TREM card (Form 9 of the Rules) to the transporter of Hazardous Waste.

9.6. In the event of declaration of false information or withholding any information by the Generator, while transporting wastes to the AFRF, all liabilities that may arise during Transportation of the Hazardous Waste shall remain vested upon the Generator.

The Generator is obliged to intimate GGEPIPL, Three (3) days in advance, to arrange for Dumpers or Tractors or Tankers or Trucks for transportation of Hazardous Waste and on arrival of the same at the Generator's site, the Generator shall be responsible for loading its Hazardous Waste into the said Dumpers or Tractors or Tankers or Trucks within Three (3) hours of such arrival, or less, as may be notified by GGEPIPL from time to time. If the detention of the said Dumpers / Tractor /Tankers/ Trucks at the Generator's site exceeds the notified time, there shall be levied detention charges at the rate of Rs. 200 per extra hour. The term or rates shall be revised by GGEPIPL from time to time and intimated to generator in advance.

9.7. The Generator shall give a written undertaking to GGEPIPL that the Generator shall take all precautions while packing and loading the Hazardous Wastes, in order to ensure that there shall be no leakage or spillage. The Generator shall take all practical steps to ensure that such Hazardous Waste is properly loaded in the fleet, without any adverse impacts that may result from such Hazardous Waste on the environment and the health of those around. In the event of such adverse impacts having been caused within the factory premises of the Generator, it shall be the sole liability of the Generator. Provided, the Generator shall not be liable if such adverse impact is due to any deficiencies with respect to the Dumpers/Tractors or Tankers.

9.8. GGEPIPL shall have the right to reject the Hazardous Waste and the Generator shall be bound to accept such Hazardous Waste back and bear all the cost associated with return of the Hazardous Waste rejected by GGEPIPL, if the same is rejected by GGEPIPL due to the any of the following reasons:

For Gujarat Green Energy Protection Co. Infrastructure Private Limited

Signed for & on behalf of GGEPIPL
Authorized Signatory

KANISHK STEEL INDUSTRIES LTD
Signed for & on behalf of Generator
Director

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9.8.1. The variation in waste characteristics is beyond 5% (Five Per Cent) of the agreed percentage and is found unsuitable for AFRF.

9.8.2. The improper packing and loading of the Hazardous Wastes resulted in spillage and leakage.

9.8.3. The Registration with GGEPIPL for processing of the Generator's Hazardous Wastes has expired.

9.9. The Generator is obliged to maintain waste characteristics as intimated by GGEPIPL and/or as specified in the first analysis report (FPA). The variation beyond 5% (Five Per Cent) of GGEPIPL's waste characteristic terms shall not be accepted by GGEPIPL. GGEPIPL is authorized to send the Hazardous Waste back to the Generator's facility, or is authorized to levy additional charges from the Generator, for the deviation from the waste characteristics list formulated by GGEPIPL.

9.10. The Generator shall have the right to have the analysis rechecked within 2 (Two) days of receipt of GGEPIPL's analysis of the Generator's Hazardous Waste, by a National Accreditation Board for Testing and Calibration Laboratories (hereinafter "**NABL**") accredited third party, which shall be accepted by GGEPIPL.

10. BILLING AND PAYMENT OF TRANSPORTATION AND MANAGEMENT CHARGES

10.1. The Generator shall be required to make the payment within 15 (fifteen) days of receipt of the bill on Transportation Charges and Management Charges (hereinafter "**T&M Charges**"), by GGEPIPL.

10.2. GGEPIPL shall charge the Generator on the basis of weighment (the weight includes the container (drums/bags etc.,) of the waste) to be done at the GGEPIPL's site. If the Weigh Bridge is not working, then the Hazardous Waste shall be weighed at a Weigh Bridge located in a third-party location, approved by GGEPIPL.

10.3. The Generator shall pay an interest on the T&M Charges, in case of any delayed payment at a rate of 18% (Eighteen Per Cent) per annum. It is hereby agreed that within the stipulated due date of any invoice raised, against the Generator by GGEPIPL, GGEPIPL shall reserve its right to discontinue the arrangement under this agreement, on account of non-payment of any of its outstanding T&M Charges, in consultation with TWMA.

11. QUALITY

11.1. The Generator hereby covenants to see that its Hazardous Waste shall, under all circumstances, confirm to the norms specified by TNPCB and as prescribed under the provisions of law, at that time being in force.

For Green Gene Enviro Protect... Infrastructure Private Limited
Signed for & on behalf of GGEPIPL
Authorised Signatory

MANISHA STEEL INDUSTRIES LTD.
Signed for & on behalf of Generator
Director

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11.2. The following listed Hazardous Waste may not be accepted by GGEPIPL, unless otherwise expressly specified by GGEPIPL:

11.2.1. Wastes containing explosive substances;
11.2.2. Waste which has an obnoxious odor;
11.2.3. Waste which is flammable (Flash point below 65° C);
11.2.4. Waste which contains shock sensitive substances;
11.2.5. Waste which contains volatile substance of significant toxicity; and
11.2.6. Waste which contains cyanide compounds.

11.3. In the event the Hazardous Waste sent by the Generator is found to be unsuitable for AFRF application, then GGEPIPL, in consultation with the Generator, shall send the said unsuitable Hazardous Waste to an authorized third-party Treatment, Storage and Disposal Facility (hereinafter "**TSDF**"), on mutually agreed terms. The responsibility for coordinating with the TSDF shall lie with the Generator.

12. QUANTITY

12.1. Subject to the conditions mentioned under this clause in this agreement, the Generator shall send to GGEPIPL, its own Hazardous Waste, subject to a minimum quantity of1MT per month and MT per annum (**Refer Clause No.7.1**), which shall be called the contracted quantity (hereinafter "**Contracted Quantity**").

12.2. If the Generator desires to send the requisite Hazardous Waste at a quantity lesser than 80% (Eighty Per cent) of the aforesaid annually Contracted Quantity, then the Generator shall be liable to pay ,to GGEPIPL for the minimum quantity of Hazardous Waste of 80% (Eighty Per Cent) of the annually Contracted Quantity.

12.3. If the Generator desires to send more than the annually Contracted Quantity of Hazardous Waste and if the GGEPIPL is capable of and prepared to receive the same, then the GGEPIPL may accept an additional quantity of up to 10% (Ten Per Cent) more than the annually Contracted Quantity, at the same price as that of the annually Contracted Quantity.

13. GGEPIPL'S OBLIGATIONS

13.1. GGEPIPL has agreed to manage and process the Hazardous Waste of the Generator, as per the applicable laws and after receipt of the necessary Authorization to be granted by TNPCB, from time to time.

13.2. GGEPIPL shall, on receipt of information from the Generator, plan and schedule for sending the transport for collection of the Hazardous Waste, within 3 (three) days of receipt of intimation from the Generator.

13.3. GGEPIPL shall appoint a responsible person and notify the Generator and the relevant regulatory agencies or statutory authorities for receiving, authorize unloading and signing of the relevant documents, like manifests and establish communication with the Generator and such relevant agencies or statutory authorities.

For Gulf Energy Infrastructure Private Limited
Authorised Signatory

Signed for & on behalf of GGEPIPL

VANISHK STEEL INDUSTRIES LTD.
Director

Signed for & on behalf of Generator

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14. TERM AND TERMINATION OF THE AGREEMENT

14.1. The term of this Agreement shall commence on the Effective Date and shall continue for a minimum period of 05 Years, unless terminated earlier as provided in this Agreement. Neither Party can terminate this Agreement during the initial period of **01 Year** from the date of this Agreement, except as expressly provided in this Agreement. In the event that the Generator is desirous of sending its Hazardous Waste, suitable for co-processing, to GGEPIPL after the expiry of the present Agreement, it shall give Three (3) months advance notice in writing to GGEPIPL, of its desire of extend the period of of usage of GGEPIPL's facility and GGEPIPL shall, subject to the available capacity, consider the request and may in its absolute discretion, offer terms for fresh agreement. Both the Parties hereto shall after reaching an agreement on the offered terms shall execute a fresh agreement at least one month before the date of expiry of this agreement.

14.2. Subject to the initial period as aforesaid, either Party may terminate this Agreement with a written notice of 30 (thirty) days to the other Party, for any reason. Termination of this Agreement shall be in addition to and not in limitation of any other rights or remedies to which either Party is or may be entitled to at law or in equity.

14.3. The Agreement may be terminated by either Party, in the event the performance of the obligations under this Agreement becomes impossible, due to reasons beyond the control of either Party.

14.4. The agreement to be terminated in the following eventualities:

14.4.1. On Authorization to GGEPIPL being cancelled, refused, or not granted by TNPCB. .

14.4.2. On expiry of Authorization granted to the Generator and the same having not been renewed by the Generator or of the same having been not granted by TNPCB.

14.4.3. On expiry of the present Agreement, where no fresh agreement is signed and executed between parties hereto as mentioned above.

14.5. In the event of the Generator's defaulting any of the terms of this Agreement, GGEPIPL shall, in consultation with and consent of IWMA, delist the Generator from its registration records and terminate this Agreement.

14.6. Both the parties hereto further agree, in case of the present agreement coming to an end owing to any of the aforesaid eventualities, it will be the sole responsibility of the Generator to manage its Hazardous Waste in accordance with the relevant provisions of law and that GGEPIPL shall not be responsible in any manner whatsoever with respect to Hazardous Waste of the Generator.

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15. INDEMNITIES

15.1. The Generator and GGEPIPL shall, at all times, comply with all the provisions of the relevant environmental Acts and Rules and other such notifications, guidelines and amendments that may be made by the relevant statutory authority, in this regard, from time to time. In the event of the Generator or GGEPIPL committing any breach of the terms of this Agreement or applicable laws, the Generator or GGEPIPL, as the case may be (hereinafter "**Indemnifying Party**"), shall indemnify and keep indemnified the other Party (hereinafter "**Indemnified Party**") from and against all claims, payments, costs and actions sustained or incurred by such Indemnified Party, .

16. FORCE MAJEURE

Neither Party shall be liable for any delay in meeting or for failure to meet its obligations under the Agreement due to any cause outside its reasonable control including, without limitation, acts of nature or war, riot, or any act of a governmental authority. If the Party is prevented from meeting its obligations due to any cause outside its reasonable control, it shall notify the other Party of the circumstances and the other Party shall grant a reasonable extension for the performance of the Agreement.

17. MISCELLANEOUS

17.1. **Entire Agreement.** This Agreement shall be deemed to represent the entire Agreement between the parties hereto regarding the subject matter hereof and shall supersede, cancel and replace any and all prior agreements or arrangements, if any, in this behalf, by and between the Parties hereto.

17.2. **No Partnership.** Nothing contained herein shall be deemed to constitute a partnership, joint venture or agency by and between the Parties hereto.

17.3. **Amendment.** This Agreement may be modified or amended only by writing, duly executed by or on behalf of the Parties hereto.

17.4. **Waiver.** Any terms and conditions of this Agreement may be waived at any time by the party that is entitled to the benefit thereof. Such waiver must be in writing and must be executed by an authorized officer of such party. A waiver on one occasion will not be deemed to be a waiver of the same or any other breach or non-fulfillment on a future occasion.

17.5. **Severability.** In the event that any provisions of this Agreement is held to be illegal, invalid or unenforceable under any present or future law such provisions shall be deemed terminable and the remaining parts & provisions of this Agreement shall remain in full force & effect.

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17.6 **Assignment.** Neither Party shall assign the whole or part of its rights nor any benefits or obligations under this Agreement without the consent in writing by the other Party. In the event GGEPIPL transfers any part of its rights, benefits or obligations under this Agreement to a third Party, the Generator shall retain the right to terminate this Agreement immediately upon receiving notice of such intentions of transfer by GGEPIPL. Each Party shall at all times remain responsible for the performance of its obligations hereunder.

17.7. The following list of Mandatory documents are to be submitted by the Generator along with this agreement to become eligible for Member & for waste lifting.

1 . Membership Application form
2. Waste Data Sheet.
3.PCB Authorization
4.Membership Agreement
5.Board Resolution Signed by the Director (or) Board of Directors
6. Memorandum of Article (MOA) (or) Article of Association.
7. Copies of PAN Card & GST details.

8. DISPUTE RESOLUTION

18.1. In the event of any dispute, disagreement or misunderstanding arising between the parties on the basis of this Agreement or upon any matter in connection with the terms of this Agreement, Parties shall seek to resolve the same, amicably through a mutual discussion. If said dispute, disagreement or misunderstanding remains unresolved within [30 (thirty)] days of notice being sent by one Party to the other, then the same shall be referred to a sole arbitrator for arbitration under the Arbitration and Conciliation Act, 1996, to be mutually appointed by both Parties.

18.2. The arbitral proceedings shall be in English and the venue shall be Chennai.

18.3. The terms of the sole arbitrator shall be final and binding on both Parties.

18.4. The Parties shall bear their own costs and expenses for the conduct of the arbitration proceedings.

19. GOVERNING LAW AND JURISDICTION

The terms of this Agreement shall be governed by the laws of India and the Courts of Chennai shall have exclusive jurisdiction to decide upon any matters arising from the terms of this Agreement, or having any connection thereto.

For Green Gas Energy Parks Infrastructure Private Limited
Signed for & on behalf of GGEPIPL
Authorised Signatory

AANISHK STEEL INDUSTRIES LTD.
Signed for & on behalf of Generator
Director

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IN WITNESS WHEREOF the parties hereto acting through their properly constituted representatives have set their hands to cause this AGREEMENT signed and executed in their respective names and on their behalf.

For and on behalf of GGEPtPL
(Sign & Stamped by Authority)

Name : Mr. David Rajkumar
Designation: Unit Head
Address : Ranipet

For and on behalf of GENERATOR
(Sign & Stamped by Authority)

for KANISHK STEEL INDUSTRIES LTD
A. K. Thiffeak

Name : ASHOK THIFFEAK
Designation: Rolling mill manager
Address : Gummidipoondi

Witness:

1)
Name : Mr. Veera Raghavan
Designation: Plant Head
Address : Ranipet

Name : V. Gurusamy
Designation: Furnace Head
Address : Gummidipoondi

2)
Name : Mr. Murugananthan
Designation: R and D Head
Address : Ranipet

Name : J. Cyril
Designation: Accounts Dept. Factory.
Address : Gummidipoondi.

For Green Gene Enviro Protection Infrastructure Private Limited
Signed for & on behalf of GGEPtPL

KANISHK STEEL INDUSTRIES LTD
Signed for & on behalf of Generator
Director

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7. MANAGEMENT CHARGES

7.1 The management charges, exclusive of all taxes (hereinafter "**Management Charges**"), which is presently in force in accordance with the type of Hazardous Wastes that is suitable for co-processing and that which has been agreed to be sent to GGEPIPL by the Generator, is described as follows:

Sr. No.	Type of Wastes	Schedule Name	Accumulated QTY. in MT	Annual Generation QTY. in MT	Management Charges* (Rs. per MT)
1	WASTE OR RESIDUES CONTAINING OIL	5.2	1MT	1MT	Rs.14500/-
2	EXHAUST AIR OR GAS CLEANING RESIDUE	35.1	1MT	25MT	

* (Attach sheets in case of more types of wastes)

7.2 The Generator shall be liable to pay GST apart from the above Management Charges.

7.3 The Management Charges that the Generator shall pay to GGEPIPL, shall be subject to revision every year/from time to time. The Management Charges that the member shall pay to GGEPIPL shall be subject to annual upwards revision by 5% (percent) per annum. The annual upward revision shall be effective from 1st April of each financial year. The annual upward revision shall be applicable irrespective of the clients become member during any month of a financial year.

7.4 GGEPIPL shall test and provide a comprehensive analysis of Hazardous Wastes, on identified parameters, as required for the AFRF, at standard rates agreed to with IWMA. This payment shall be in addition to the T&M Charges (as defined below).

7.5 The Comprehensive Analysis Report as specified above shall determine the acceptance of waste based on the waste characteristics and waste acceptance criteria given by GGEPIPL.

VANISHK STEEL INDUSTRIES LTD

Signed for & on behalf of GGEPIPL

Signed for & on behalf of Generator

Director

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ANNEXURE V

NOC - WILD LIFE CLEARANCE

Ref No. WL5/21519/2022

O/o. Principal Chief Conservator Forests (HoFF),
State Forest Headquarters,
Guindy-Velachery Main Road,
Chennai - 600 032
Dated: 01-03-2024

Sub: Forests – Wildlife – Online application received from M/s. Kanishk Steel Industries Ltd., – Expanding inside existing SIPCOT land (Industrial land use zone – SIPCOT Gummidipoondi) – National Board for Wildlife clearance requested – NOC Issued – Regarding.

Ref: Government of India, Ministry of Environment Forests and Climate Change, New Delhi letter F. No. WL-6/33/2024-WL dated 28-02-24.

****

Attention of the Wildlife Warden, Chennai is invited to the references cited. It is informed that the Standing Committee of National Board for Wildlife has recommended the proposal vide Agenda No. 78.3.25. Based on the above, No Objection is hereby granted to expansion of Steel Melting Plant and rolling mill over an area of 3.015 Ha of non forest land for the production of 76,000 TPA of Re-rolled products / structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Pvt Limited subject to following conditions:-

1) The project proponent shall obtain all other statutory clearance and also submit Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary if required.
2) The project proponent shall submit an undertaking stating that no disturbance will be caused to the wildlife during project implementation.
3) The project proponent shall ensure that there is no discharge from the project area towards into the sanctuary.
4) Any other conditions stipulated by the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Wildlife Warden, Chennai shall be followed.

The Wildlife Warden, Chennai is requested to send the annual compliance certificate on the stipulated conditions to be obtained from the User Agency to this office for onward submission to the Government of India. He is also

requested to send the Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary to this office for approval.

Encl: As stated above

Sd/- Srinivas R. Reddy
Principal Chief Conservator of Forests
and Chief Wildlife Warden

To
The Wildlife Warden,
Chennai.

Copy to the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Vandalur, Chennai – 48 for information and necessary action.

Copy to M/s. Kanishk Steel Industries Pvt Limited, B-27, MNS SIPCOT Industrial Complex, Gummidipoondi – 601 021 for information.

/True Copy / By Order /

for Senior Draughting Officer

24/3/21

ANNEXURE - VI

CONSENT TO ESTABLISH AIR ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206240023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987 (Central Act, 14 of 1981)-Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to

The Director,
M/s . KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027** , or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:02 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,

Chennai-600 004.,

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to establish for Expansion is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T (existing)	Bag Filters with stack	32	20664
2	Induction Furnace 12T (proposed)	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3 **Special Additional Conditions:**

i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4 **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
3. The unit shall operate and maintain the Air Pollution Control measures attached to existing induction furnace & DG sets efficiently and continuously so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
4. The unit shall conduct AAQ/SM/ANL through TNPC Board lab periodically and furnish ROA to the Board.
5. The unit shall provide Bag filter with stack of height 32m as Air pollution control measures to the proposed Induction Furnaces 12 T so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
6. The unit shall adhere the National Ambient Air Quality / Stack / Ambient Noise Level standards prescribed by the Board from time to time.
7. The unit shall provide Online Continuous Emission Monitoring System (OCEMS) in the stacks of induction furnaces for monitoring emission parameters SPM, SOx, NOx, and the same shall be connected with Care Air Centre, TNPCB, Chennai prior to the commissioning of the expansion activity.
8. The unit shall meet the particulate matter standards of 150mg/NM3 for emission from induction furnace.
9. The unit shall continue to develop green belt to an extent of 33% of the total extent of land at rate of 400 trees/hectare.

RAMASAMY RAJAMANICKAM

Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:33 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:48:52 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - VI

CONSENT TO ESTABLISH
WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206140023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 25 of the Water(Prevention and control of Pollution)Act,1974 , as amended in 1988 (Central Act 6 of 1974) –Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR.No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 53 of 1988) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Director,
M/s. KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:49:25 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.,

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	**Sewage Treatment Plant:**		
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	STP	1	10KL/day.
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Collection tank	1	6.0x3.0x3.0
2.	Aeration tank	1	1.5 m x 1.5 m x 3.0
3.	Settling tank	1	1.5 m x 1.5 m x 2.5
4.	FILTER FEED TANK	1	1000 L Sintex
5.	PRESSURE SAND FILTER	1	0.300 dia x 1.1 m ht
6.	Activated Carbon Tank	1	0.250 dia x 0.9 m ht
7.	Sludge drying bed	2	1.0x1.0x1.50
b	**Effluent Treatment Plant:**		
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Solar Evaporation Pan	1	2.5m x 2.0m x 1.5 m
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

3. This consent to establish for Expansion is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent			
1.	Trade Effluent -1	19.0	Recycling to machine cooling
2.	Trade Effluent -2	2.45	Solar Evaporation Pans

4. **Special Additional Conditions:**

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

5. **Additional Conditions:**

1. The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall furnish an undertaking in Rs.100 stamp paper that "it will abide by the outcome of application submitted for NOC before the National Bird Sanctuary Board" within 15 days to TNPCB.
3. The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
4. The unit shall operate and maintain the existing Sewage Treatment Plant (STP) efficiently and continuously for treatment of sewage so as to bring the quality of treated sewage to satisfy the discharge standards prescribed by the Board at all times. The treated sewage shall be utilized for gardening/green belt development within the premises.
5. The unit shall provide elevated Solar Evaporation Pan (SEP) of adequate surface area for the disposal of trade effluent arising from the wet scrubber bleed off by evaporation as proposed.
6. The unit shall provide EMFMs in the fresh water consumption, inlet & outlet of STP and line of trade effluent (Scrubber bleed off) to SEP.
7. The solid wastes such as MS Scale from concast machine, Mill scale & furnace slag shall be collected properly and sent for beneficial use without any accumulation within the premises. Records of transport & disposal in this regard shall be maintained
8. The unit shall collect the end cut billets properly and reuse the same again the process.
9. The unit shall utilize the STP sludge as manure for green development inside the premises.
10. The unit shall submit the Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.
11. The unit shall not use ‘single use and throwaway plastic items’ such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:49:53 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM
Digitally signed by RAMASAMY RAJAMANICKAM
Date: 2022.04.22 21:50:13 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE VII

CONSENT TO OPERATE CTO - AIR ACT & WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307255530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL//GMP/A/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as “The Act”) and the rules and orders made there under to

The Director

M/s . KANISHK STEEL INDUSTRIES LIMITED

S.F No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt

OLD GUMMIDIPOONDI Village

Gummidipoondi Taluk

Tiruvallur District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

S RAGUPATHI Digitally signed by S RAGUPATHI
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Director,

M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T	Bag Filters with stack	32	20664
2	Induction Furnace 12T	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
5	Coal fired reheating furnace	Wet scrubber with stack	30	36787
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl. No.	Parameter	Unit	Tolerance limits	(1) (2) (3) (4) (5) (6)

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below.

Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	
				Industrial, Residential, Rural and other area	**Ecologically Sensitive Area (notified by Central Govt.)**
1.	Sulphur Dioxide (SO2)	Annual 24 hours	microgram/m3 microgram/m3	50 80	20 80
2.	Nitrogen Dioxide (NO2)	Annual 24 hours	microgram/m3 microgram/m3	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM10	Annual 24 hours	microgram/m3 microgram/m3	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	Annual 24 hours	microgram/m3 microgram/m3	40 60	40 60
5.	Ozone (O3)	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	**Industrial, Residential, Rural and other area**
					Ecologically Sensitive Area (notified by Central Govt.)
6.	Lead (Pb)	Annual 24 hours	microgram/m3 microgram/m3	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m3 miligram/m3	02 04	02 04
8.	Ammonia (NH3)	Annual 24 hours	microgram/m3 microgram/m3	100 400	100 400
9.	Benzene (C6H6)	Annual	microgram/m3	5	5
10.	Benzo(O) Pyrene (BaP) –particulate phase only	Annual	nanogram/m3	01	01
11.	Arsenic (As)	Annual	nanogram/m3	06	06
12.	Nickel (Ni)	Annual	nanogram/m3	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	**Day Time**	**Night Time**
IndustrialArea	**75**	**70**

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.

5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.

6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.
7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.
8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize “Mission LiFE” logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt “Mission LiFE” action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace of 15 T and the existing 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
4. The unit shall operate and maintain the air pollution control measures continuously and efficiently so as to ensure that the emission shall satisfy the AAQ/Emission standards prescribed by the Board.
5. The unit shall continue to develop and maintain adequate green belt in and around the premises.
6. The unit shall ensure that stacks are connected to CARE Centre, Guindy at all the times.
7. The unit shall not use ‘use and throwaway plastics’ such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel glass, porcelain plates/cups, cloth bag, jute bag etc.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307155530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL/GMP/W/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director

M/s . KANISHK STEEL INDUSTRIES LIMITED

S.F No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt

OLD GUMMIDIPOONDI Village

Gummidipoondi Taluk

Tiruvallur District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

S RAGUPATHI
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Date: 2023.12.08 15:54:26 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Director,

M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.

Pin: 600004

Copy to:

1.The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent - NILL			
1.	Cooling Tower Bleed Off	19.0	Used as Cooling Water Make up in Rolling Mill

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1		1		
1.	pH		5.5 to 9		5.5 to 9		
2.	Temperature	oC	-		shall not exceed 5ºC above the receiving water temperature		
3.	Particle size of Suspended solids	-	-		shall pass 850 micron IS sieve		
4.	Total Suspended Solids	mg/l	30		100		
5.	Total Dissolved solids (inorganic)	mg/l	-		2100		
6.	Oil & Grease	mg/l	-		10		
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	20		30		
8.	Chemical Oxygen Demand	mg/l	-		250		
9.	Chloride (as Cl)	mg/l	-		1000		
10.	Sulphates (as SO4)	mg/l	-		1000		
11.	Total Residual Chlorine	mg/l	-		1		
12.	Ammonical Nitrogen (as N)	mg/l	-		50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-		100		
14.	Free Ammonia (as NH3)	mg/l	-		5		
15.	Arsenic (as As)	mg/l	-		0.2		
16.	Mercury (as Hg)	mg/l	-		0.01		
17.	Lead (as Pb)	mg/l	-		0.1		
18.	Cadmium(as Cd)	mg/l	-		2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-		0.1`		
20.	Total Chromium (as Cr)	mg/l	-		2		
21.	Copper (as Cu)	mg/l	-		3		
22.	Zinc (as Zn)	mg/l	-		1		
23.	Selenium (as Se)	mg/l	-		0.05		
24.	Nickel (as Ni)	mg/l	-		3		
25.	Boron (as B)	mg/l	-		2		
26.	Percent Sodium	%	-		-		
27.	Residual Sodium Carbonate	mg/l	-		-		
28.	Cyanide (as CN)	mg/l	-		0.2		
29.	Fluoride (as F)	mg/l	-		2		
30.	Dissolved Phosphates(as P)	mg/l	-		5		
31.	Sulphide (as S)	mg/l	-		2		
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-		1		
34.	Radioactive materials a) Alpha emitters	micro curie/ml	-		10-7		
35.	Radioactive materials b). Beta emitters	micro curie/ml	-		10-6		

36.	Fecal Coliform	MPN/100ml	-		-		

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.
5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
   a. Industrial Cooling, Spraying in mine pits or boiler feed.
   b. Domestic purpose.
   c. Process.
6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.
7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.
8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.
9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.
11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.
12. The occupier shall provide and maintain rain water harvesting facilities.
13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.
14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.

    i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.

    ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.

    iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.

    iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

    v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize “Mission LiFE” logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt “Mission LiFE” action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace and the existing old 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall obtain amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020 for retaining one coal fired reheating furnace of 15 T, to be used during emergency situations and furnish the same within a period of six months.
4. The unit shall operate the coal fired reheating furnace of 15 T only after obtaining amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
5. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
6. The unit shall operate and maintain the sewage treatment plant effectively and continuously so as to satisfy the standards prescribed by the Board
7. The unit shall utilize the treated sewage for gardening/ green belt development without any stagnation or ponding.
8. The unit shall ensure that the Cooling Tower Bleed Off of 19 KLD is used as Cooling Water Make up in Rolling Mill and ensure that and there is no discharge on land etc., under any circumstance
9. The unit shall ensure that no treated/untreated sewage shall gain access to the drain/water course at any point of time.
10. The unit shall dispose Non-Hazardous solid wastes then and there without accumulation of the same within the premises.
11. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The unit shall furnish the monthly reports on the quantity of Products manufactured with necessary supporting documents.
13. The unit shall comply with the E-Waste Management Rules, 2016. E-Waste as listed in schedule-I, generated by them shall be channelized through Collection Centre or dealer of authorized producer or dismantler or recycler or through the designated tack back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.
14. The unit shall not use ‘use and throwaway plastics’ such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

S RAGUPATHI
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Date: 2023.12.08 15:55:07 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
    a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
    b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form–4 before the end of the subsequent 30th June of every year (if applicable).
    c) Yearly Environmental Statement for the period from 1st April to 31st March in Form –V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.

21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.

22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.

23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

S RAGUPATHI Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:55:35 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - VIII

AAQ REPORT OF ANALYSIS

TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Ambattur.

From	To
Dr. K.Sarumathy M.Sc., M.Phil., P.hD, Deputy Chief Scientific Officer, District Environmental Laboratory, No.77-A South Avenue Road, Ambattur Industrial Estate, Ambattur, Chennai 600 058.	**M/S. Kanishk Steel Industries Ltd** Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201

Lr.No.TNPCB/ ROA No.27/2024 - 25/DEL/AMB/AAQS/SM **Dated: 02.07.2024**

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality/Stack Monitoring / Ambient Noise Level Survey-regarding.

Ref: 1. G.O.(2D) No. 13 dated:31.08.2021
(Revised Rate From 01.09.2021)
2.This Office.Lr.No.50/2024-25 Dated : 18.06.2024
3.Cash Receipt No.121 Dated : 21.06.2024
Rs. 84,350
4. Your ltr. No.121 Dated : 21.06.2024

****

I am sending herewith the Report of Analysis of Ambient Air Quality /Stack Monitoring/Ambient Noise level.Survey conducted in the vicinity of your Industry on 26.06.2024 with an invoice for a sum of Rs.84,350.00/- (Rupees Eighty Four Thousand Three Hundred and Fifty Only) towards the above survey/analysis charges, and same has been adjusted with the advance fees received vide reference cited.

Kindly acknowledge the receipt of the report without fail.

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

Encl: As above

Copy to:

1. The District Environmental Engineer, TNPCB, Gummidipoondi
2. File

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient Air Quality Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey : 26.06.2024
4. Duration of Survey : Eight hours
5. Category : OL
6. Land use classification. : Industrial

Consent No: 2307255530846
Dated: 08.12.2023
Validity Upto : March 31st 2033

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30.0	36.0		42	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominent Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	15 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On Top of Scaffiolding Near Admin Building	NE	60	2.0	68.1	--	13.5	15.6
2	On Top of Scaffiolding Near labour quarters	E	50	2.0	89.1	38.4	16.6	19.1
3	On Top of Scaffiolding Near storage yard	SE	60	2.0	72.1	--	16.2	18.8
4	On Top of Scaffiolding Near stores	SW	70	2.0	85.6	--	17.1	19.7
5	On Top of Scaffiolding Near laboratory	NW	80	2.0	70	40.1	18.3	21.2

Note:- * With respect to major emission sources.
The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Stack Monitoring Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey 26.06.2024
4. Type of the Industry : Steel

Stack Monitoring Survey Results

Sl.No	Stack attached to	Stack Temp in K	Velocity in (M/sec)	Discharge Rate in (Nm^3/hr)	Pollutants (mg/Nm3)		
					PM	SO_2	NO_2
1	Induction furnace - 7 Ton Fuel:- EB APC Measure:- Bag Filters	416	11.8	34399	50.1	101.3	130.9
2	Induction furnace - 12 Ton Fuel:- EB APC Measure:- Bag Filters	403	11.1	33401	48.5	106.6	134.5

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

K.Sau 3/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1	Name of the Industry	**M/S. Kanishk Steel Industries Ltd**			
2	Address of the Industry	Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201			
3	Date of survey	26.06.2024			
4	Category	OL	Land Use Classification		Industrial
Type of survey		Ambient/Source		Time of Survey	Day
Meteorological Conditions		Calm			

Logging Parameters

Instrument Used	CESVA	**Serial No.**	T243104
Logging Interval	30 Minutes in each point	**Measuring Range**	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" **Time Weighting**	Slow
Sound Incidence	RANDOM	**Time in Hrs.**	15:30 - 16:20 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	LMin	LMax
1	Near Admin Building	30	60	NE	70.5	66.2	85.2
2	Near labour quarters	30	50	E	74.0	70.6	88.6
3	Near storage yard	30	60	SE	69.4	65.3	82.6
4	Near stores	30	70	SW	72.6	69.4	87.3
5	Near laboratory	30	80	NW	65.1	61.3	78.2

Leq Value is the average energy for the measured period

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

ANNEXURE - IX

STACK REPORT OF ANALYSIS

TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Ambattur.

From	To
Dr. K.Sarumathy M.Sc., M.Phil., P.hD, Deputy Chief Scientific Officer, District Environmental Laboratory, No.77-A South Avenue Road, Ambattur Industrial Estate, Ambattur, Chennai 600 058.	**M/S. Kanishk Steel Industries Ltd** Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201

Lr.No.TNPCB/ ROA No.27/2024 - 25/DEL/AMB/AAQS/SM **Dated: 02.07.2024**

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality/Stack Monitoring / Ambient Noise Level Survey-regarding.

Ref: 1. G.O.(2D) No. 13 dated:31.08.2021
(Revised Rate From 01.09.2021)
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3.Cash Receipt No.121 Dated : 21.06.2024
Rs. 84,350
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I am sending herewith the Report of Analysis of Ambient Air Quality /Stack Monitoring/Ambient Noise level.Survey conducted in the vicinity of your Industry on 26.06.2024 with an invoice for a sum of Rs.84,350.00/- (Rupees Eighty Four Thousand Three Hundred and Fifty Only) towards the above survey/analysis charges, and same has been adjusted with the advance fees received vide reference cited.

Kindly acknowledge the receipt of the report without fail.

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

Encl: As above

Copy to:

1. The District Environmental Engineer, TNPCB, Gummidipoondi
2. File

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient Air Quality Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey : 26.06.2024
4. Duration of Survey : Eight hours
5. Category : OL
6. Land use classification. : Industrial

Consent No: 2307255530846
Dated: 08.12.2023
Validity Upto : March 31st 2033

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30.0	36.0		42	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominent Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	15 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
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3	On Top of Scaffiolding Near storage yard	SE	60	2.0	72.1	--	16.2	18.8
4	On Top of Scaffiolding Near stores	SW	70	2.0	85.6	--	17.1	19.7
5	On Top of Scaffiolding Near laboratory	NW	80	2.0	70	40.1	18.3	21.2

Note:- * With respect to major emission sources.
The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Stack Monitoring Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey 26.06.2024
4. Type of the Industry : Steel

Stack Monitoring Survey Results

Sl.No	Stack attached to	Stack Temp in K	Velocity in (M/sec)	Discharge Rate in (Nm^3/hr)	Pollutants (mg/Nm3)		
					PM	SO_2	NO_2
1	Induction furnace - 7 Ton Fuel:- EB APC Measure:- Bag Filters	416	11.8	34399	50.1	101.3	130.9
2	Induction furnace - 12 Ton Fuel:- EB APC Measure:- Bag Filters	403	11.1	33401	48.5	106.6	134.5

Test performed	Test Method
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SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

K.Sau 3/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

ANNEXURE X

LETTER OF AGREED TO COMPLIED EC CONDITONS UNDERTAKE

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To **Date: 14/02/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on 13.02.2025.

With reference to the inspection of M/s Kanishk Steel Industries Limited at Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District, conducted by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO,

We hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

AIR QUALITY MONITORING AND PRESERVATION:

SI.NO. VII. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.826 (E) dated 16th November, 2009 shall be complied with.

SPECIFIC CONDITIONS:

SI.NO. 26 : The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/Honb'le High Court of Madras.

SI.NO. 27 : All the assurances given in EIA and EMP shall be adhered strictly.

SI.NO. 37 : There should be no threat to Biodiversity due to the operation of the industry.

SI.NO. 39 : The operation of the activity should not impact on the soil, micro flora& Fauna present in and around the project site.
SI.NO. 43 : The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.

GENERAL CONDITIONS

SI.NO. 01 : The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.
SI.NO. 02: No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB
SI.NO. 03 : "Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
SI.NO. 04 : Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.
SI.NO. 03 : The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.
SI.NO. 14 : The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.
SI.NO. 24 : Full co-operation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.
SI.NO. 23 : The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.
SI.NO. 24 : The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.
SI.NO. 25 : Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection)Act,1986
SI.NO. 25 : In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.

SI.NO. 26: The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.

SI.NO. 27: Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

for

Director

(Ashok Bohra)
Director

ANNEXURE XI

TREATED SEWAGE EFFLUENT DISCHARGE MONITORING DATA

CHENNAI
Testing redefined
TESTING LABORATORY PRIVATE LIMITED

ilac-MRA

TC-14314

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	**CTL/CH/N-38300/2024-25 & 31.01.2025**
Sample Number	**N-38300/24-25**
Name of the Customer	**M/s. Kanishk Steel Industries Ltd,**
Address	B-27 N, B-27 M, B-27 S, Sipcot Industrial Complex, Peddikuppam, Gummidipoondi - 601201.
Sample Drawn by	Customer
Sample Name	Sewage Water
Sample Description	**Treated Sewage Water**
Sampling Location	NA
Sample Drawn on	NA
Sample Collected by	NA
Sampling Plan & Procedure	NA
Sample Quantity	500ml
Sample Condition	Good & Received in Plastic container
Environmental Conditions	NA
Equipment used for Sampling	NA
Sample Received on	24.01.2025
Analysis Started on	24.01.2025
Analysis Completed on	31.01.2025

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL & BIOLOGICAL

GROUP : POLLUTION AND ENVIRONMENT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
1	pH @ 25°C	4500 H+ B- APHA 24th Edn	–	6.8	6.5 to 9.0
2	Total Suspended Solids (TSS)	2540 D- APHA 24th Edn	mg/l	7	NMT 50
3	Biochemical Oxygen Demand (BOD) 3 days at 27°C	IS 3025 (Part 44)	mg/l	10	NMT 20

Verified by

For Chennai Testing Laboratory Pvt ltd

Authorised Signatory

A. RAJ KUMAR
SENIOR MANAGER
(CHEMICAL)

The Report shall not be used to malign, defame and for any malicious purpose.
The Report is meant only for sole use of the addressee

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India
Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CHENNAI
TESTING LABORATORY PRIVATE LIMITED
Testing redefined

ilac-MRA

TC-14314

CIN : U93000TN2000PTC043869

TEST REPORT

Test Report No & Date	CTL/CH/N-38300/2024-25 & 31.01.2025

S.NO	PARAMETERS	METHOD	UNITS	RESULTS	LIMITS*
Microbiology:					
4	Faecal Coliform	9221-E- APHA 24th Edn	MPN/100ml	140	< 1000

NMT - Not More Than

*Limits as Per MoEF & CC Notification, October 2017 for Treated Sewage

Remarks: The sample complies the limits MoEF & CC Notification, October 2017 for Treated Sewage with respect to the parameters tested

Statement of conformity is applied considering Decision rule as per CTL/QSP/16

END OF REPORT

For Chennai Testing Laboratory Pvt ltd

Verified by

Authorised Signatory

R. JAYAVARTHANAN
Manager
(MICROBIOLOGY)

The Report shall not be used to malign, defame and for any malicious purpose.
The Report is meant only for sole use of the addressee

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India
Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

ANNEXURE - XII
WATER AGREEMENT

WATER BALANCE CHART





தமிழ்நாடு
எண் 3862
நாள் 14.10.91

Kanishka Steel Industries,
Kanishka Steel Industries
Madras.

Manager
K. V. [illegible]

AGREEMENT FOR THE SUPPLY OF WATER FROM THE WATER SUPPLY SCHEME, SIPCOT INDUSTRIAL COMPLEX.

This Agreement made at Gummidipoondi on the 29TH day of November One Thousand Nine Hundred and Ninty One between STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED (SIPCOT) having its Registered Office at 19-A, Rukmani Lakshmipathy Road, Egmore, Madras - 600 008. and represented by its Project Officer Thiru. A.PALANIAPPAN, (hereinafter called "SIPCOT" which expression shall unless the context otherwise requires include its successors, legal representatives administrators and assigns) of the ONE PART:

Project Officer
SIPCOT

For KANISHK STEEL INDUSTRIES.

Manager.

AGREEMENT FOR THE SUPPLY OF WATER FROM THE WATER SUPPLY SCHEME, SIPCOT INDUSTRIAL COMPLEX.

This Agreement made at GUMMIDIPUNDI the..... day of..... One Thousand Nine Hundred and Ninety One between STATE INDUSTRIES PROMOTION CORPORATION OF TAMIL NADU LIMITED (SIPCOT) having its Registered Office at 19-A, Rukmani Lakshmipathy Road, Egmore, Madras-600 008, and represented by its Project Officer Thiru.....A.PALANIAPPAN,..... (hereinafter called "SIPCOT" which expression shall unless the context otherwise requires include its successors, legal representatives administrators and assigns) of the ONE PART :

AND M/S....KANISHK STEELS (P) LTD,,..... a Proprietory/firm/a company registered under the Companies Act, 1956,/firm registered under the Indian Partnership Act, 1932 having its Registered Office at....No.5,..... ...8th Street,....Dr.Radhakrishnan Salai, Mylapore,..Madras-600 004. represented by its (1)...Director,...Thiru.Rajesh Gupta..... (2)..... (hereinafter called "The Company" / "Firm" which expression shall unless the context otherwise requires include their successors, adminstrators, legal representatives and assigns) of the other Part, whereby it is agreed to as follows :

Whereas the Company/Firm has requested SIPCOT to supply water to the Company/Firm for the use of the Company/Firm from the Water Supply Scheme under the control of SIPCOT and located at the Industrial Complex.GUMMIDIPOONDI...and SIPCOT agrees to supply water to the Company/Firm inrespect of the industry set up by the Company in SIPCOT Industrial Complex for a period of Five (5) years from the date of commencement of water supply to the Company/Firm in the first instance on the terms and conditions hereinafter mentioned.

Now this Deed witnesseth as follows :—

1 The pumps and pipelines upto the termination receiving point of the Company / Firm shall be installed by SIPCOT at its cost and they shall always remain the propeity of SIPCOT.

2 SIPCOT shall man and run these pumps and maintain the pumping mains connected therein including pump-houses and their sites and the same shall always remain the propertty of SIPCOT.

3 The cost of maintaining and repairing the said installation due to normal wear and tear shall be done by SIPCOT.

4 The water will be delivered as available from the infiltration wells and no treatment for industry will be done by SIPCOT.

5 Water will be supplied at the receiving point of the Company/Firm from the Over Head Tank of SIPCOT upto a limit of....5000..litres on a 16 (sixteen) hour basis daily.

For KANISHK STEEL INDUSTRIES

Manager.

6 The water will be delivered in to the receiving point of the Company / Firm from where pumping for the use of Factory will be the responsibility of Company/Firm. SIPCOT and its Officers and servants will have free access to inspect and check the arrangements made at the delivery point.

7 The rate of pumping of water shall not normally exceed ...5000...litres..... .... per day and the Company / Firm shall make arrangement to receive and design the internal system with adequate capacity, pressure, etc.

8 If the change in pumping rate is called for, intimation thereon shall be given immediately in writing to the Shift Officer on duty sufficiently in advance. The Company / Firm shall allow a period upto 24 (Twentyfour) hours and the intimation shall take effect only upon the expiry of that period

9 The Company Firm shall not interfere with the actual pumping or working of the Scheme in any way and shall have no right whatsoever to give instructions to or to correspond with the staff of SIPCOT below the rank of the Project Officer Administrative Officer, directly.

10 Every attempt will be made by SIPCOT to supply water on a 16 (Sixteen) hour basis but in case of break down in the supply, the Company / Firm shall make its own arrangements for supply (by having recourse to storage pumps of the Company / Firm system itself upto a period of 24 hours) and SIPCOT shall not be liable to answer or pay any compensation, damages, etc., on that account and for its failure to keep up continuous supply to its industry.

11 For the purpose of recovering charges from the Company Firm the water consumed by it shall be measured by water meters as herein provided, and the readings of the meters, by SIPCOT or its Officers shall be conclusive and binding upon the Company / Firm.

11 (a) Water meters shall be installed by the Company / Firm in the pipe line connecting the water supply with the Company / Firm and the maintenance of water meters shall be carried out by the company / Firm. The Water-meters shall be checked and re-calibrated from time to time as agreed to by the two parties.

11 (b) The readings will be taken on the last day of every month or at convenient intervals as deemed neeessary by SIPCOT. The readings shall be final and binding on the Company / Firm. For this, a representative of the Company / Firm when so desired and deputed by the Company / Firm may attest the reading in the register maintained for the purpose.

11 (c) i. When the Water Meter goes out of order in any month, on any day, the water charges for the particular unit, will be worked out, based on the previous four months' average consumption.

ii. In any month / months, during the previous 4 months, if the unit has not worked, and not drawn water, the corresponding month / months, preceding the previous 4 months, will be taken into accouut, for the purpose of working average water charges for four months.

iii. The Unit must replace the water, meter, within 21 days, from the date on which the meter went out of order. SIPCOT should also follow it by issuing notice in writing,

iv. In case, the unit fails to replace / rectify the Meter within 21 days, the water charges will be worked out, based on the average consumption of three highest month, during the preceding 12 (twelve) months. The above rate will be charged from the month, on which the Meter went out of order, to the da'e of replacement, by revising the demand already made.

For KANISHK STEEL INDUSTRIES,

Manager.

v. In case, the unit has not replaced or repaired the water meter, even after 90 days, SIPCOT will have the option, to disconnect the Water Supply, after giving 7 days notice.

12 The charges for the quantity of water drawn by the Company/Firm for industrial purpose shall be payable at the rate agreed namely Rs. 4/- (four) per 1000 (one thousand) gallons subject to a minimum charge of Rs. 200/- per connection per month. This agreed rate is tentative and shall be suject to revision by SIPCOT after one year from the date of this agreement and reviewed every year there after and revised if necessary in conformity with the increase in the cost of maintenance energy rate, water royalty etc, which shall be paid the Company / Firm. The above gallon rate will be converted into litres wherever necessary and bill of demand sent accordingly.

13 The payment for each month at the rate agreed upon shall be paid by cheque or demand draft. The amount due shall be paid within 15 days of the receipt of the bill. Errors and omissions if any in the bill can be represented / pointed out only after payment of the amount as per bill amount.

14 If the Company / Firm fails to pay any bill within the period stipulated in Clause-13 of this agreement, SIPCOT, after giving 7 (seven) days notice in writing and without prejedice to other remedies open to it in Law, shall be entitled to cut off supply of water till such time that the bill in question is settled in full. For belated payments after the stipulated period mentioned in Clause-13 of this agreement, interest at 20% per annum will be collected over the bill amount under reference and the amounts due to SIPCOT without prejudice to the other mode of recovery shall be recovered as if it is an arrear of land revenue under Tamilnadu Revenue Recovery Act (Act II of 1864) as amended.

15 The Company / Firm shall not be entitled for any commission or rebate from the payment of minimum charges per month as per clause-11 of the Agreement whether water is consumed or not by the Company / Firm.

16 SIPCOT shall give atleast 24 hours notice in writing for any distuption in supply of water to the Company / Firm except due to the natural calamities or any other situation beyond the control of SIPCOT when such prior intimation cannot be given and SIPCOT is not answerable to any loss or claim for damages on account of such stoppage of supply.

17 SIPCOT shall be at liberty to connect any other resources of water supply to the pipe line installations at the Company / Firm and shall provide all information regarding the quality of water from new source whenever arranged.

18 Any disputes and differences between the parties arising out of or relation to this agreement shall be referred to the Managing Director of SIPCOT, whose orders shall be final and binding upon the Company/Firm.

19 When water is required for construction and commercial needs of the factory buildings, separates arrangement will be made and the charges fixed for construction deeds will be collected and the rates in clause-12 of this agreement are not applicable.

20 The Company shall promptly pay the charges towards premimum rent etc., in respect of the plot as required by the lease deed entered into between the Company and SIPCOT.

FOR KANISHK STEEL INDUSTRIES,

Manager.

21 The Company shall not sink any well / borewell / Tubewell within the plot leased to it.

22 Any change in the constitution of the Company shall be immediately informed to SIPCOT and its written consent obtained, in advance.

23 If SIPCOT for any reasons in accordance with the condition 30 of the lease deed, sells, leases or otherwise deals with the plot leased to the Company, it is hereby agreed that the water supply agreement stands autometically cancelled.

24 SIPCOT is at liberty to determine this agreement and cut-off water supply for violation of all or any of the conditions aforesaid.

IN WITNESS WHEREOF THE parties to this Agreement have set and subscribed their respective hands on the day, month and year first above written.

PROJECT OFFICER
SIPCOT LIMITED

Witnesses :

1. (P. CHOWKARETNAM)
AO SIPCOT, Gummidipoondi

2. (S. MOHAN)
SIPCOT Limited,
Gummidipoondi

For KANISHK STEEL INDUSTRIES

(Manager)
Manager.

COMPANY / FIRM.

Witnesses :

1. (ASHOK BOTHRA)
D.P. Steels.

2.

All Values are in KLD

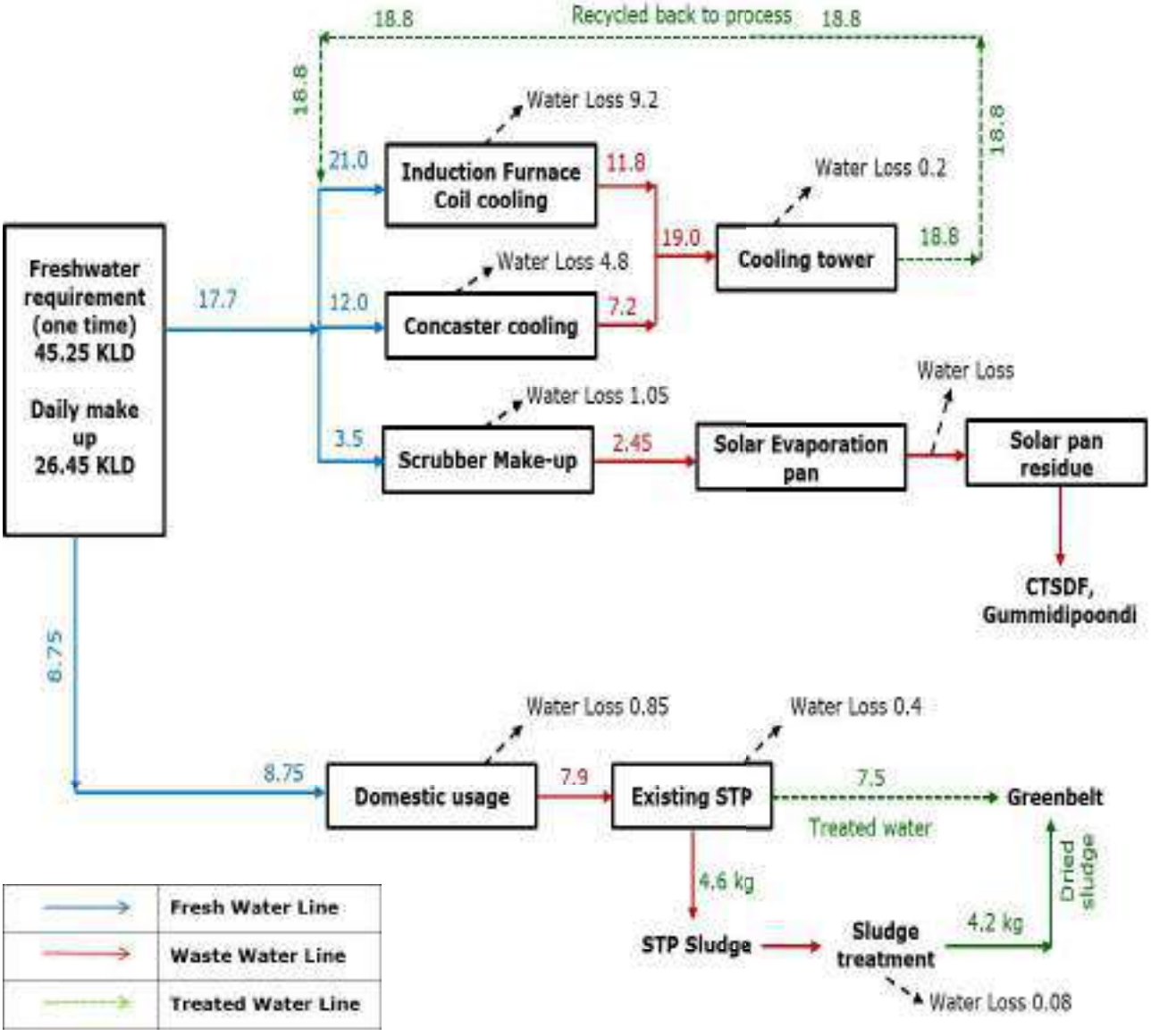


FIGURE - 2.2
WATER BALANCE–AFTER EXPANSION

ANNEXURE - XIII

NOISE REPORT OF ANALYSIS

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1	Name of the Industry	**M/S. Kanishk Steel Industries Ltd**			
2	Address of the Industry	Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201			
3	Date of survey	26.06.2024			
4	Category	OL	Land Use Classification		Industrial
Type of survey		Ambient/Source		Time of Survey	Day
Meteorological Conditions		Calm			

Logging Parameters

Instrument Used	CESVA	**Serial No.**	T243104
Logging Interval	30 Minutes in each point	**Measuring Range**	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" **Time Weighting**	Slow
Sound Incidence	RANDOM	**Time in Hrs.**	15:30 - 16:20 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	LMin	LMax
1	Near Admin Building	30	60	NE	70.5	66.2	85.2
2	Near labour quarters	30	50	E	74.0	70.6	88.6
3	Near storage yard	30	60	SE	69.4	65.3	82.6
4	Near stores	30	70	SW	72.6	69.4	87.3
5	Near laboratory	30	80	NW	65.1	61.3	78.2

Leq Value is the average energy for the measured period

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

ANNEXURE XIV

ON-SITE EMERGENCY PLAN,

RISK ASSESSMENT AND DISASTER MANAGEMENT PLAN

ON–SITE EMERGENCY RESPONSE PLAN



M/s Kanishk & OP Steel Industries Limited

TVR03471

Plot No. B-27 SIPCOT Industries Complex,
Gummidipoondi, Thiruvallur District,
Tamilnadu, India - 601201

CONTENTS

S. No	Content
1	Introduction
2	Objective of the plan
3	Company Profile
4	Organization Chart
5	Hazardous Material, Process and Safety Management
6	Preliminary Hazard Assessment and Risk Analysis
7	Emergency Preparedness Action and Mitigation Plans
8	Emergency Response Team
9	Emergency Organization Roles and Responsibilities
10	Emergency Management Infrastructure
11	Emergency Protection Facilities
12	Emergency Action During Natural calamities
13	Recovery procedure
14	Mutual Aid Scheme
15	Review and Updating of Plan

INTRODUCTION

This comprehensive Emergency management plan for M/s. OP STEEL LIMITED., was drafted in accordance with the guidelines of the Government of Tamil Nadu. The Emergency management plan covers natural and man-made disasters, emergency preparedness plans for on-site purpose and disaster relief and mitigation. Its prime objective is to mitigate the possible risks emanating from OP STEEL LIMITED, related operations Onsite and Offsite in Tiruvallur District of Tamil Nadu.

The Indian economy is rapidly industrializing and expanding. This rapid expansion has however increased the hazard, risk and vulnerability to the industry and the environment. The potential to have Industrial emergencies are low in frequency but are very significant in terms of loss of lives, injuries, environmental impact and property damage. Frequency and severity of Industrial related emergencies has increased in last few years due to rapid increase in Industrial sectors like Pharmaceuticals, Chemical Industries, Automobiles, telecommunication, storage, processing, and transportation of petrochemical products, specifically in densely populated areas. Industrial related accidents can occur due to lack of safety measure, technical breakdown, or due to a human error.

A single incident can initiate a series of uncontrolled phenomenon such as large spills, fires and explosions. These eventually target humans, environment and infrastructure/property in the area and can be in the form of immediate and residual or long term consequences.

Thus, it is imperative to develop preventive measures like adoption of safer engineering practices, improved performance of safety devices and reduction of human errors by regular checks.

The government has also issued guidelines and laws for disaster management and mitigation. The Umbrella Act EPA, 1986 enacted after the incidence of Bhopal Gas Tragedy in 1984, and the rules MSIHC Rules 1989, EPPR Rules 1996, and PLI Act 1991, besides The Factories Act 1948 (amended thereafter) provided a systematic approach to disaster management framework at national, state, district and local levels, in the context of Industrial related accident management and emergency response.

This On-site emergency plan comply with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (As amended in 2000), The chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996 (Rules 5,6,7,8 Schedules VII & VIII and Rules 9, 10, 11& 12) Based on these Guidelines, this Emergency management plan was developed.

The prime objective here is to ensure that the occurrence of hydrocarbon related accidents are minimized and the risks posed to life, environment and property are reduced. The Emergency management plan calls for a proactive, participatory, well-structured, fail-safe, and multi-disciplinary approach involving all groups and is aimed to strengthening the various mechanisms from stages of planning to field operations.

OBJECTIVE OF THE PLAN

An emergency is said to have risen when operators in the plant are not able to cope with a potential hazardous situation i.e loss of an accident causes the plant to go beyond its normal operating

conditions, thus creating danger. When such an emergency evolves, chain of events which affect the normal working within the factory area and /or which may cause injuries, loss of life, substantial damage to property and environment both inside and around the factory takes place and DISASTER is said to have occurred.

Various steps involved in Disaster management plan can be summarized as follows:

1. Minimize risk occurrence (Prevention)
2. Rapid control (Emergency response)
3. Effectively rehabilitate damaged areas (Restoration)

Disaster management plan is evolved by careful scrutiny and interlinking of

- Types and causes of disaster
- Technical Know-how
- Resource availability

Types of Disaster:

a. Due to Fire and Explosion
b. Due to vapor Cloud
c. Due to Toxic Gas release from
d. Hurricane, Flood, Cyclone and other natural calamities

The overall objectives of the emergency plan will be:

- To localize the emergency and, eliminate it; and
- To minimize the effects of the accident on people and property.

- Elimination will require prompt action by operations and works emergency staff using, for example, fire-fighting equipment, water sprays etc. Minimizing the effects may include rescue, first aid, evacuation, rehabilitation and giving information promptly to people living nearby.
- Synchronized action from all the coordinating agencies with least possible delay.
- Effective rescue operation and treatment of the causalities.
- To train the people to act efficiently and with confidence in an emergency.
- To bring back normal situation in the least possible time.
- To minimize its occurrence.

The following three staged activities are suggested as they are co-related and provide better points for emergency preparedness, emergency action and subsequent follow-up.

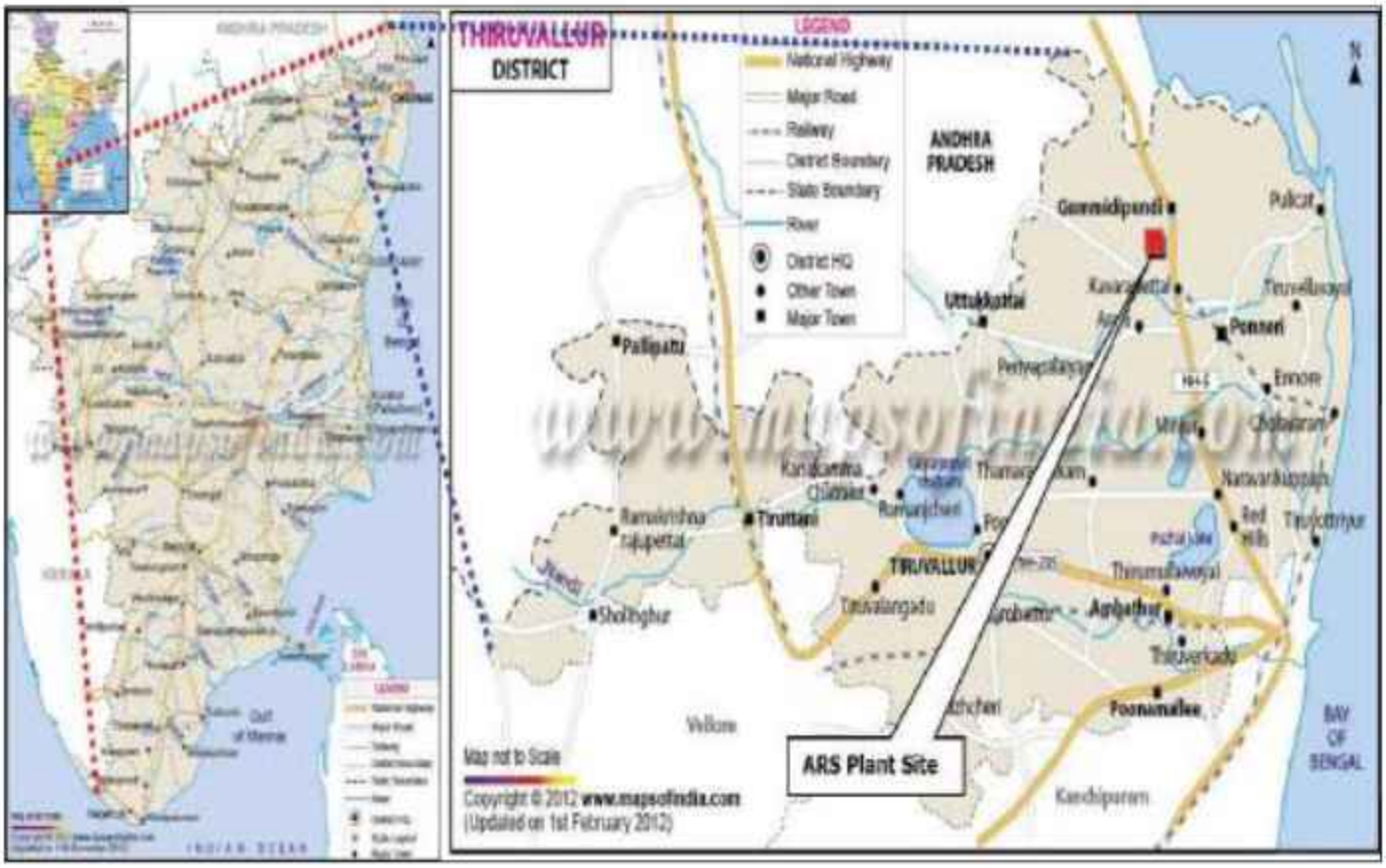
1. Pre- Emergency Activity
2. Emergency Time Activity
3. Post Emergency Activity

Description of site:

The plant is situated at SIPCOT Industrial Complex, Plot No. B-27 N, SIPCOT Industries Complex, Gummidipoondi, Thiruvallur District, Tamilnadu, India - 601201.The nearest highway to the plant is NH-5 which connects Guntur-Chennai at 0.7 km in East direction. The nearest Railway station to the plant site is Gummidipoondi Railway station which is located at a distance of 2.2 km in SE direction. The nearest airport is Chennai International airport at a distance of 46.7 km in South direction.

<table>
<tr><th>S.No</th><th>Particulars</th><th colspan="3">Details</th></tr>
<tr><td rowspan="5">1</td><td rowspan="5">Site Co-ordinates</td><td>S.No</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>A</td><td>13º 41.588' N</td><td>80º 11.895' E</td></tr>
<tr><td>B</td><td>13º 41.591' N</td><td>80º 12.051' E</td></tr>
<tr><td>C</td><td>13º 41.702' N</td><td>80º 11.891' E</td></tr>
<tr><td>D</td><td>13º 41.705' N</td><td>80º 12.041' E</td></tr>
<tr><td>2</td><td>Elevation above MSL</td><td colspan="3">19 m</td></tr>
<tr><td>3</td><td>Land use of the project site</td><td colspan="3">Industrial Land use Zone (SIPCOT,Gummidipoondi)</td></tr>
<tr><td>4</td><td>Nearest Highway</td><td colspan="3">NH- 5 (0.7 km, East)</td></tr>
<tr><td>5</td><td>Nearest Railway Station</td><td colspan="3">Gummidipoondi R.S. (2.2 km, SE)</td></tr>
<tr><td>6</td><td>Nearest Air Port</td><td colspan="3">Chennai Intl. Airport (46.7 km, S)</td></tr>
<tr><td>7</td><td>Nearest Sea Port</td><td colspan="3">Ennore (30.3 km, SE)</td></tr>
<tr><td>8</td><td>Nearest habitation</td><td colspan="3">Kayalarmedu (0.4 km, NE)</td></tr>
<tr><td>9</td><td>Nearest major town</td><td colspan="3">Gummidipoondi (1.7 km, S)</td></tr>
<tr><td>10</td><td>Ecologically sensitive zone</td><td colspan="3">Pulicat Ecosensitive Zone (6.48 km, N)</td></tr>
<tr><td>11</td><td>Reserved Forests</td><td colspan="3">Puliyur forest R.F (6.8 km, W) Manali R.F (9.8 km, SW)</td></tr>
</table>

12	State, National	Andhra Pradesh - Tamil Nadu (7.4 km, N)
13	Defence Installation/Historical Monuments	Nil in 10 km radius
14	Historical places	Nil in 10 km radius
15	Socio-economic factors	No resettlement and rehabilitation
16	Nearest river & water body	Thamarai Eari - 1.7 km, ESE Sri Amman Temple pond - 2.2 km, SSE Murugan Temple pond - 2.4 km, SE Siva Temple pond - 2.6 km, SSE Eddappalayam lake - 6.2 km, SE Pulicat lake - 6.39 km, NNW Rakkampalayam lake -7.1 km, NE Arani River -7.2 km, S Paatupalli lake - 7.6 km, E Poo-Vilambedu Pond - 8.5 km, W Kattavour Eari - 9.5 km, SE
17	Nearby Industries	1) M/s. Mitsuba India Private Limited 2) M/s. Xmold Polymers Pvt Ltd 3) M/s GP Sulphonates Pvt. Ltd
18	Nearby Fire Station	SIPCOT Fire Station (2.8 km, E)
19	Nearby Hospitals	1) ESI Hospital (1.66 km, ESE) 2) Frontier Mediville (1.70 km, SSE) 3) SDK Hospital (1.90 km, E) 4) Government Hospital, Gummidipoondi (2.48 km, E)


THIRUVALLUR
DISTRICT
LEGEND
National Highway
Major Road
Railway
District Boundary
State Boundary
River
District HQ
Other Town
Major Town
ANDHRA PRADESH
Gummidipundi
Pulicat
Uttukkottai
Ponneri
Pallipattu
Tiruttani
TIRUVALLUR
Sholinghur
Arakkonam
Arcot
Vellore
Kanchipuram
Poonamallee
ARS Plant Site
Map not to Scale
Copyright © 2012 www.mapsofindia.com
(Updated on 1st February 2012)
BAY OF BENGAL
N





Process Description

The conversion of iron scrap in to billets does not require any sophisticated technology. Various grades of scrap such as super melting scrap, bazaar melting scrap, commercial scrap, sponge iron are melted in electrically operated induction furnace and will be poured into the billets using a Continuous Casting Machine (CCM). Then the hot billets are directly fed into the rolling mill by Hot rolling technology.

Direct Hot Rolling Technology is one of the advanced production management technologies in steel sector, which represents awareness of green and energy-saving ideology. Contrary to the conventional process of storage and cooling of the billet, the sensible heat from the continuous-cast billets is utilized by charging them directly into the rolling unit.

In Direct Hot Rolling, the melt, tapped at approximately 1660-1700°C, is transferred to the continuous casting machine quickly without any significant heat loss and is poured into mould at around 1590°C. The melt is solidified and cooled down to a temperature of 1050 to 1100°C by PLC controlled water cooling and secondary direct spray cooling. The solidifying billet is cut immediately and is passed to the rolling mill, ensuring a minimal heat loss.

The whole operation is conducted at a particular temperature range and within a limited time span. The stages of rolling operation are comprised of heating of feed stock to rollable temperature, rolling the feeding stock in different mill stands, cropping the hot bar during the process of roiling between mill stands as applicable and subsequently finishing in form of hot rolled deformed bar in straight length. The hot bar coming

out of the last pass is then conveyed through a TMT line and collected in a cool bed after shearing. The bars at almost ambient temperature are sheared to commercial length, stored and kept ready for dispatch.

M/s. OP STEEL LIMITED., is committed to providing a safe and healthy workplace to all our employees and contractors, and to ensuring that all our activities contribute to the conservation and enhancement of the environment. To fulfill this, we are going to implement an Occupational Safety, Health and Environmental Policy.

By this policy, we strive to comply with India's Occupational Safety, Health and Environmental legislation and other related regulations and requirements; to promote and implement resource and energy conservation programs and practices to minimize the release of pollutants into our land, air and our waterways; to implement safety programs and measures to ensure the safety of all personnel involved in our activities; to train employees and contractors on the importance of environmental conservation and safe work practices, and their roles in complying with company rules and regulations; to work with our vendors and business partners towards realizing our safety policy; to ensure all accidents, work-related illnesses, diseases or near misses are reported and corrective measures are taken to prevent recurrence and to strive to prevent lost-time injuries or property damages due to accidents and Introduce healthy living programs to promote a healthy lifestyle amongst our employees.

No other source of adverse effects on occupational health & safety is likely to occur. However, MSDS of hazardous chemicals will be made

available with the management as well as concern personnel working with the materials or area likely to be affected by the materials. In general following are the key safety measure which has been adhered.

- ✓ Provision of all necessary equipment like portable detectors, online detectors, and other laboratory equipment are regular monitoring of workplace air and other conditions. (VOC, temperature, Humidity and Light Intensity).
- ✓ Compulsory use of necessary PPE's for all workers.
- ✓ Installation of fire extinguishers at required places.
- ✓ Regular workplace monitoring.
- ✓ Protection of Storage area.
- ✓ Separate area provision for container decontamination.
- ✓ Monitoring of occupational hazards like noise, ventilation , chemical exposure should be carried out at frequent intervals.
- ✓ Provision of proximity suits and self contained breathing apparatus.
- ✓ Display various instruction boards, cautionary notices etc. at different locations.

HAZARD ASSESSMENT AND RISK ANALYSIS

The hazard identification process must identify hazards that could cause a potential major accident for the full range of operational modes, including normal operations, start-up, and shut down, and also potential upset, emergency or abnormal conditions. The hazard identification process should reassess whenever a significant changes in operations has occurred or a new substance has been introduced.

Hazard identification and risk assessment involves a critical sequence of information gathering and the application of decision making process. These assist in discovering what could possibly cause a major accident, how likely it is that a major accident would occur and the potential consequences and what options there are for preventing and mitigating a major accident. These activities should also assist in improving operations and productivity and reduce the occurrence of incidents and near misses.

Industrial accidents result in great personal and financial loss. Managing these accidental risks in today's environment is the concern of every industry because the real or perceived incidents can quickly jeopardize the financial viability of a business. Many facilities involve various manufacturing processes that have the potential for accidents which may be catastrophic to the plant, work force and environment or public. The main objective of the risk management study is to propose a comprehensive but simple approach to carry out risk analysis and conducting feasibility studies for industries including planning and management of industrial prototype hazard analysis study in the Indian context.

Risk analysis and risk assessment provide details on Quantitative Risk Assessment (QRA) techniques used the world over to determine risk posed to people who work inside or live near hazardous facilities and to aid in preparing effective emergency response plans by delineating a Disaster Management Plan (DMP) to handle on-site and off-site emergencies. Hence, QRA is an invaluable method for making informed risk based process safety and environmental impact planning decisions, as well as being fundamental to any facility-sitting decision making. QRA whether site specific or risk specific for any plant is complex. It needs extensive study that involves process understanding, hazard identification, consequence modelling, probability date, vulnerability model/data, local weather, terrain conditions and local population data. QRA may be carried out to serve the following objectives:

- Identification of safety areas.
- Identification of hazard sources.
- Generation of accidental release scenarios for escape of hazardous materials from the facility.
- Identification of vulnerable units with recourse to hazard indices.
- Estimation of damage distances for the accidental release scenarios with recourse to Maximum Credible Accident (MCA) analysis.
- Hazard and Operability Study (HAZOP) in order to identify potential failure cases of significant consequences.

- Estimation of probability of occurrences of hazardous events through fault tree analysis and computation of reliability of various control paths.
- Assessment of risk on the basis of above evaluation against the risk acceptability criteria relevant to the situation.
- Risk mitigation measures based on engineering judgment, reliability and risk analysis approaches.
- Delineation/up-gradation of DMP.
- Safety Reports with external safety report/ occupational safety report.
- The Risk Assessment Report covers the following in terms of the extent of damage with recourse to MCA analysis and delineation of risk mitigation measures with an approach to DMP.
- Hazard identification: Identification of hazardous activities hazardous materials, past accident records etc.
- Hazard quantification: Consequence analysis to assess the impacts.
- Risk presentation.
- Risk mitigation measures.
- Disaster Management Plan.

Identification of Hazards

Identification of hazards in the proposed plant is of primary significance in the analysis, quantification and cost effective control of accidents involving materials and process. A classical definition of hazard stated that hazard is in fact the characteristics of system /plant/ process that presents potential for an accident. Hence, all the components of a

system/ plant/ process need to be thoroughly examined to assess their potential for initiating or propagating an unplanned event/ sequence of events, which can be termed as an accident. The following two methods for hazards identification have been employed in the study:

- Identification of major hazardous units based on Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 of Government of India (GoI Rules, 1989) and

- Identification of hazardous units and segments of plants and storage units based on relative ranking technique, viz. Fire-Explosion and toxicity Index (FE & TI). Details are given in EIA report. The brief of risk involved due to hazardous situation and the safety systems are given below:

Hazard Identification & Proposed Safety System

S.No	Plant Area	Causes	Consequences	Mitigation Measures
1.	Furnace Operation	Moisture containing scrap & recirculating water coming in contact with molten metal.	Steam Explosion	Usage of moisture free R.M Drying of R.M
2.	Transformer Area	Oil temperature build up Unsafe electrical installation Varying room temperature.	Sudden flashing of fire & bursting	Proper Electrical installation Transformer room temperature monitoring
3.	H.T electrical installation	Loose Fowls, cable cut, short circuits & burning of fuse	Sparks in the beginning & devastative fire if neglected	Properly laid cables & switches & fuse

4.	Extremely Hot Working area	Heat from Furnace, Unsafe clothing, seasonal factors e.g.temperature,pH & air movement	Heat Shocks	Rotation of workers Exhaust air ventilation Shielding from radiant heat
5.	Furnace & Moulding	Touching Hot Surface Splashing of molten metal Radiation	Burns	Providing specific PPE are to measures risk of manual operation Protective barriers to explosion
6.	Furnace & moulding	UV & IR radiation of high intensities from molten metal pouring	High Radiation	Safety education to workers Labelling of risky areas Providing suitable PPE

Exposure Limits

The exposure level of work zone concentrations are within the Permissible Exposure Level (PEL) as specified in Section 41F, Sch-II of Factories Act, 1948 (Permissible Level of certain Chemical Substance in Work Environment) and the OSHA standards for Permissible Noise Exposures which are reproduced below:

S.No	Duration per day in Hours	Sound Level dB(A) slow response	Remarks
1.	8	90	1. No noise environment excess of 115 dB (A) is to be produced. 2. For any period of exposure falling between any figures indicated in column I, the permissible sound level is determined by exposure.
2.	6	92	
3.	4	95	
4.	3	97	
5.	2	100	
6.	1½	102	
7.	1	105	
8.	½	110	
9.	¼ or less	115	

All effects shall be made to comply with the standards after the operation of proposed expansion.

Ambient Air Quality Standards in respect of noise:

Area Code	Category of Area	Level in dB (A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

Hazard Assessment & Evaluation

A preliminary hazard analysis shall be carried out to identify major hazards associated with storages in the facility. This is followed by consequence analysis to quantify these hazards. Finally the vulnerable zones are plotted for which risk reducing measures are deduced and implemented.

Before evaluating the environmental risks the following terms related to environmental risks are defined.

Term	Environmental Risks
Harm	Damage to person, property or the environment
Hazard	Situation that poses a threat to life, health, property or the
Risks	The likely hand of harm or harmful occurrence and its severity, Environmental risk is a measure of potential threats to the environment, life & property.
Consequences	Effect due to the occurrence of event endangering the environment temporarily or permanent.
Environmental Disorder	The consequences is so severe that it can extensively damage anyone or all the four components of environment namely: · Physiochemical · Biological · Humans & · Aesthetic

Environmental Risk Evaluation

Risk Analysis (RA) is a sort of scrutinizing vehicle for establishing the perversely in risk management that concerns human health and the environmental quality in general. Though the proposed facility is not manufacturing, storage or handling any potentially hazardous/toxic chemicals as scheduled in the MSIHC Rules 1989 and its subsequent amendments, the Risk Management measures for the proposed project are:

- The adaption of best safety practices.
- Incorporation in design and engineering facilities/protection measures for release to air, water, environment and land.
- Electrical safety by quick response circuit breakers.
- Adequate fire protection system.

Frequent Causes of Accidents

- Fire and explosion, explosives, flammable material.
- Struck by falling objects.
- Snapping of cables, ropes, chains & slings.
- Handling heavy objects.
- Electricity (electrocution).
- Poor illumination.
- Falls from height inside industrial units or on the ground.
- Struck by moving objects.
- Slipping on wet surfaces.
- Sharp objects.

- ❖ Oxygen deficiency in confined spaces.
- ❖ Lack of personal protective equipment (PPE), housekeeping practices Safety signs.
- ❖ Hackles, hooks & chains.
- ❖ Cranes, winches, hoisting and hauling equipment.

Physical Hazards

- Noise.
- Extreme temperatures.
- Vibration.

Hazardous Substances & Wastes

- ✓ Heavy and toxic metals.
- ✓ Organo metallic substances.
- ✓ Lack of hazard communication (storage, labelling, material safety data sheets).
- ✓ Fire-fighting liquids.
- ✓ Welding fumes.
- ✓ Volatile organic compounds (solvents).
- ✓ Inhalation in confined and enclosed spaces.
- ✓ Physical hazards.
- ✓ Noise.
- ✓ Extreme temperatures.
- ✓ Vibration Radiation.
- ✓ (UV, radioactive materials).

Mechanical Hazards

- Trucks and transport vehicles.
- Scaffolding, fixed and portable ladders.
- Impact by tools, sharp-edged tools.
- Power-driven hand tools, saws, grinders and abrasive cutting wheels.
- Failure of machinery and equipment.
- Poor maintenance of machinery and equipment.
- Lack of safety guards in machines.
- Structural failure.

Ergonomic & Psychosocial Hazards

- ✓ Repetitive strain injuries, awkward postures, repetitive & monotonous work, excessive workload.
- ✓ Long working hours, shift work, night work, temporary employment.
- ✓ Mental stress, human relations (aggressive behaviour, alcohol and drug abuse, violence).
- ✓ Poverty, low wages, minimum age, lack of education and social environment.
- ✓ General Concerns
- ✓ Lack of safety and health training.
- ✓ Poor work environment.
- ✓ Inadequate housing and sanitation.
- ✓ Inadequate accident prevention and inspection.
- ✓ Inadequate emergency, first-aid and rescue facilities.
- ✓ Lack of medical facilities and social protection.

Major Hazards

Induction Furnace

- ✓ Moist scrap being charged may cause explosion.
- ✓ Cooling water in contact with molten metal may cause explosion.
- ✓ Radioactive scrap being charged liberates extremely harmful radiation.
- ✓ Explosive material present in scrap may cause explosion.

Continuous Casting Machine

- Spillage of molten metal can occur resulting in damage to mechanical and civil structures, electrical cables and hydraulic equipments.
- Prevention and Control of Fire and Explosion
- Operational staff is being and shall be trained for safe work practices.
- Risk assessment to consider the potential impact of explosion in and outside the plant.
- Regular safety audits shall be undertaken.
- Refractories shall be preheated and dried before use.
- Scrap will be inspected, shredded and cut to size before put to use.

Nature of Hazards

Equipment/Process	Associated Hazard
Induction/LRF	Hot metal spillage/ steam and fire explosion
Continuous Casting Machine	Hot metal spillage
Rolling Mill	Hot metal spillage
Electrical rooms	Fire and Electrocution
Transformer area	Fire and Electrocution

Possible Hazards & Risks from Secondary Metallurgical Industries

The various process operations, which are having potentially high risk to human exposure and which have high levels of attention area identified in Table

Possible Risk

S.No	Plant Area	Possible Deviation from normal operation	Likely Causes	Consequences
1	Furnace	Re-circulating and cooling water coming in contact with the molten iron or slag.	Leakage of water from the walls Spurting of metal/slag	Explosion under extreme cases.
		Presence of Oil & Grease and other Impurities in raw materials.	Fire	Sudden fire & flames
2	High Power Transformer	Oil temperature being very high.	Varying room Temperatures.	Sudden flashing of fire
3	High Tension Electrical Installation	Heavy sparking at the pot heads and the joints.	Loose joints, cable cut, burning of fuses, short circuits etc.	Sparks in the beginning, devastating fire if neglected.

Specific Hazard & their Control

S.No.	Hazard	Reason	Control Measures
1	Molten Metal Explosion - Steam Explosion - Chemical Explosion	- Use of oxidized or rusted iron. -Damp refractories or tools. -Containers of aerosols mobile & phone batteries. -Accidentally mixing of oxidizing substance e.g. KNO3 (NH4)2NO3 in furnace. -Incorrect combination/ ratio of metals being processed.	- Checking the refractories moisture & strategies for pre-heating the furnace & the refractories. - Proper storage system to ensure against accidental use and outside the excessive heat area. Storage paints, solvents and other combustible material specially.
2	Heat Stress	- Working in extreme hot condition.	- Shielding heat radiations from hot surface. - Supply of clean drinking water - Educating workers about the symptoms of excessive heat exposure. - Short breaks & rotation of workers.

3	Burns	- Splashing of molten material - Touching of hot surface - radiation	- Providing specific PPE's - Providing protective barriers to minimum exposure. - Proper design & Process Control. - Automation to minimize risk associated with material handling or casting.
4	Light Radiation	- UV & IR radiations of high intensity from molten metal especially the pouring areas.	- Educating the workers regarding risks and safety measures. - Proper labelling of risky areas w.r.t radiation. - Shielding of workers and providing proper PPE's.

First Aid Measures

Following first aid measures will be taken:

a. Eye Contact: Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions and burns.

b. Skin Contact: Wash with cool water and a pH neutral soap or a milk skin detergent. Seek medical attention for rash, burns, irritation and dermatitis.

c. Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms.

d. Ingestion: Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention.

Exposure Controls & Personal Protection

Exposure Controls

- Control of dust through implementation of good housekeeping and maintenance.

- Proper fume and dust extraction system to control fume/dust emission in work zone.

- Use of PPE, as appropriate (e.g. masks and respirators).

- Use of mobile vacuum cleaning systems to prevent dust build-up on paved areas.

Personal Protective Equipment (PPE)

- Respiratory Protection: When the dust level is beyond exposure limits or when dust causes irritation or discomfort use respirator.
- Eye Protection: Wear Safety goggles to avoid dust contact with the eyes. Contact lenses should not be worn when handling the materials.

- Skin Protection: Wear impervious abrasion and alkali resistant gloves, boots, long sleeved shirt, long pants or other protective clothing to prevent skin contact.

Fire Fighting Facilities

- Keeping in view the nature of fire and vulnerability of the equipment and the premises, following fire protection facilities have been envisaged for the plant.

Hydrant System

- Internal hydrants will be provided in all major plant units at suitable locations and in different levels inside the plant buildings. Internal hydrants will also be provided for conveyor galleries. Yard

hydrants will be provided in the vicinity of each plant unit, normally along the road to meet the additional requirement of water to extinguish fire.

Portable Fire Extinguishers

All plant units, office buildings, laboratory, welfare buildings, etc. will be provided with adequate number of portable fire extinguishers to be used as first aid fire appliances. Sufficient quantities of the following extinguishers will be provided at strategic locations in the plant.

Other Safety Measures

- ✓ Safety training to the workers will be given.
- ✓ PPE will be provided to the workers.
- ✓ The maintenance and cleaning of bag filters will be carried out regularly.
- ✓ The dust removal efficiency of bag filters will be check regularly.
- ✓ Work place environment monitoring will be carried out regularly and records will be maintained.
- ✓ Good housekeeping will be implemented in the plant.
- ✓ First aid box will be provided.
- ✓ The industry will provide adequate lighting facility inside the plant premises.

- ✓ General ventilation will be provided to control dust levels below exposure limits.
- ✓ Fire extinguishers will be provided to withstand the fire or explosion condition.
- ✓ Pre-employment and periodical medical examination of workers will be done by government approved medical practitioners and the details will be recorded as per the Regulations.
- ✓ The industry will prepare on-site emergency plan.
- ✓ In case any emergency, arrangement of ambulance van will be done from nearest Hospital.
- ✓ Two main gates will be provided for entry and exit of the workers.

Disaster Management Plan (DMP) Disaster

Disaster is an unplanned event that can cause death or significant injuries to employees, customers or public. It is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering. As a result, they need protection, clothing, shelter, medical, social care and other necessities of life.

Disasters can be divided into two main groups, namely, natural and manmade. There can be no set criteria for assessing the gravity of a disaster, since this depends to a large extent on the physical, economic and social environment in which it occurs. However, all disasters bring in similar consequences that call for immediate action, whether at the local, national or international level for the rescue and relief of the victims.

Objectives of Disaster Management Plan

Disaster Management Plan (DMP) is the process of preparing for mitigating measures, responding to and recovering from an emergency. The DMP is aimed at ensuring safety of life, protection of environment, protection of installation, restoration of production and salvage operations, in this same order of priorities. For effective implementation of the DMP, it should be widely circulated and personnel training should be provided through rehearsals/ drills.

The DMP should reflect the probable consequences of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on available and reliable information, incident data from internal and external sources, and, if necessary, the reports of outside agencies.

The objective of the industrial DMP is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of causalities.
- Safeguard other people.
- Minimize damage to property and the environment.
- Initially contain and ultimately bring the incident under control.
- Provide authoritative information to the news media.
- Secure the safe rehabilitation of affected area.

- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the emergency.
- In effect, it is to optimize that the operational efficiency to rescue, rehabilitate and render medical help and restore normalcy.

Emergency Plan

Emergency planning is primary for the protection of plant personnel and people in nearby areas and the environment that could be affected by unplanned hazardous events. The emergency may arise from the leakage, explosion caused by over pressure in equipment, chemical storage and handling, fire due to combustible material and social disorder.

Furnace Hazard

Furnaces are associated with fire and electrical hazard due to sudden generation of pressure or temperature that leads to damage, injury and death. Temperature and pressure are closely related, and when flammable or combustible mixture is present in process equipment that leads to worst consequences. Thus, an engineering evaluation will be done for worst-case scenario.

Safety Measures

- Installation of automatic alarm.
- Explosion suppression system with detector technique and suppressant.
- Means of shutting off the power and raw material supply.
- Standard Operating Practices (SOPs) for starting sequence of furnace should include along with checkup for exhaust system prior to ignition
- Piping, valves and fitting should be metallic and be in accordance with NFPA-30.
(Flammable & combustible liquid code)

Fire & Explosion

Fire consequences can be disastrous, since they involve high voltage current and huge quantities of raw material with fuel either stored or in dynamic inventory in conveyors or hoppers or in nearby areas. Toxic releases can affect persons working around.

Preliminary Hazard Analysis has provides a basis for consequence estimation. Estimation can be made by using various pool fires, tank fire consequence calculations.

During the study of Risk Assessment, the nature of damages is worked out and probability of occurrence of such hazards is also drawn up. The aim

of DMP is to introduce the pragmatic guidelines for safe storage and warehousing of hazardous/ combustible materials, thus protecting human health and environment. The following control/ mitigating measures should be adopted.

- Eliminate all sources of ignition. However, it is difficult to ascertain.
- All the sources of ignition, especially if there are any moving parts.
- DCP type extinguishers are recommended.
- All emergency and safety related equipment must be frequently and regularly checked and maintained to ensure that their condition is satisfactory. Records should be kept of all checks and maintenance carried out on this equipment.
- The necessary first aid equipment should include emergency showers and eyewash facilities.
- The firefighting media should be selected according to mode of action and their use in combating or preventing the spread of fire. It may be water, dry chemical powder, carbon dioxide and foam.
- Extinguishers should be fitted with means to provide visual indications that the unit has partially or wholly been discharged.
- A fire detection alarm and automatically activated CO or equal fire suppression system should be provided in the electrical room.

EMERGENCY PREPAREDNESS ACTION & MITIGATION PLANS

TYPES OF EMERGENCIES

Onsite Emergency

If an accident/incident takes place in a factory, it affects are confined to factory premises, involving only the persons working in the factory and the property inside the factory is called as On-site Emergency.

Major emergency which may or may not cause material damage or injuries and likely to have impact on entire operation of the factory. Such Emergencies may be controlled using resources within the factory and resources available in the surrounding establishments, public and private fire brigades.

Off-site Emergency

If the incident/accident is such that it affects inside the factory are uncontrollable and it may spread outside the factory premises, is called Off-site Emergency.

PROBABLE EMERGENCY SCENARIOS

Probable Emergencies due to our operations could be

- Fire
- Explosion
- Spillage of Hazardous material

Probable Emergencies due to natural calamities and External Factors

- Earthquake
- Storms
- Lightning strike.
- Bomb Threat

EMERGENCY CATEGORIZATION

Emergencies are categorized with a view to assess the likely severity of emergencies, resources required to control such emergencies, both on-site and elsewhere and also for transportation emergencies. Emergencies identified under fire, explosion are based on the risk analysis study. A brief description of each such major emergency is given in the subsequent parts of this section.

Category - I

Minor emergencies which may or may not cause damage or injuries within any plant/section of the factory and which are not likely to develop to a magnitude that warrants evacuation of the personnel from the plant/section of the factory, and can be controlled effectively using the resources within the factory.

Category -II

Major emergencies which may or may not cause damage or injuries within any plant/section of the factory but are likely to develop or have developed to a magnitude that warrants evacuation of personnel from the plant/section of the factory, and can be controlled effectively using resources within the factory.

Category - III

Major emergencies which may cause material damage or injuries and likely to have an impact on entire operation of the factory. Such emergencies may be controlled using resources within the factory and resources available in the surrounding establishments.

Category - IV

This type of major emergency is likely to have an impact on a large geographical area perhaps involving the entire Area. Resources from central and state governments, civilian defence facilities may be required to control such emergency. During such emergencies, the management has to co-ordinate with district emergency authorities to initiate action as per off-site emergency plan apart from initiating actions as per its on-site emergency management plan.

The purpose of the On-site emergency plan is to provide guidance to personnel based at the site who are appointed to the Emergency Response Team (ERT) on the actions to be taken in the event of an incident or emergency. It details the procedures to be followed by members of the ERT to ensure a prompt and efficient response, should an incident or emergency situation occur. ERT organizations are staffed by site personnel who are assigned and trained in their respective emergency roles and responsibilities.

The ERP is complemented by the OP STEEL LIMITED., Fire Contingency Plan the necessary details, data and tactical procedures to enable facility based personnel to expeditiously deal with fire related emergencies in their early stages. The Incident Response Team will be composed of

Managers, Supervisors and personnel based at the site who will be on call at all times while on location for their tour of duty. Personnel who form an ERT will be informed of their responsibilities and trained in their role.

If an incident or emergency situation develops, the site ERT will be mobilized, and depending on circumstances at the time, resources from adjacent facilities will be called upon to provide assistance.

M/s. OP STEEL LIMITED., ensured through training / information that any person of the staff give brief and precise warning message indicating the place, type and seriousness of the accident, whenever he is witness to an abnormal initiating event. Depending on the nature and magnitude of the event and local condition such as meteorology, geographical layout, population distribution and accessibility, the important aspect to be considered is the type or level of an emergency.

ORGANIZATION

Emergencies very rarely occur as such they are not a day to day activity or a planned activity which a fixed time schedule. The activities during the emergencies are to be coordinated and this could be achieved by an organizational approach, which has quid response capabilities.

This organization is capable of quick response any time of the day or night to meet the disasters. The emergency response coordination is critical to the protection of properties and lives of the workers and community.

Emergency Response Team (ERT)

S.NO	CONTACT PERSON	ROLES AND RESPONSIBILITY
1	FACTORY MANAGER	Site Main Controller
2	HR MANAGER	Communication & Rescue Officer
3	SAFETY OFFICER	Incident Controller
4	SECURITY OFFICER	Fire Fighting Officer / Technical Officer
5	PRODUCTION INCHARGE / FACILITITY DEPT	Head Count Team Coordinator / Rehabilitation officer

CHAIN OF COMMAND

The duties and responsibilities of each individual coordinator are fixed such that the action is taken with logical approach. If any changes are to be made in the procedure, or in actions, the front end area coordinator should be able to respond in logical fashion. To achieve the above a chain of command is created with tiered structure that the supervisors can take a few independent decisions to achieve the overall objectives.

NOTICING & REPORTING EMERGENCY

The emergency in a plant may be noticed by a worker on the shop floor, or a security guard on his rounds or in fact by anyone else in the factory.

The person noticing the emergency should first inform to the security and then to Incident Controller of the particular shift who would be available in the factory. The security in turn will inform to the senior persons responsible for managing the emergency by phone or through a messenger and shift in-charge also would assess the situation and if the emergency is a major one falling under any of the categories other than category - I, will inform by phone or through a messenger to a senior person responsible for managing the emergency. This person, for the purposes of emergency plan, is designated as Incident Controller.

Incident Controller will manage emergency from the Emergency Control Centre. In the Night or after office hours Shift In- charge acts as Incident Controller.

DECLARATION OF EMERGENCY

During the General shift, the Site Main Controller has the authority to declare the major emergency (category-II to IV). During the Holidays, Weekly Off, Second Shift operations when the SMC is not available at the plant, then Shift Supervisor has the responsibility and authority to declare a major emergency based on his assessment. Major emergency is declared by sounding the siren.

The siren is an indication to the workers of the plant that an emergency situation has arisen and if so directed they may have to shut down the plant and move towards pre designated safer areas viz. Assembly Points (AP).

CONTROLLING THE EMERGENCY

The emergency operations are mainly controlled by the Site Main Controller (SMC). The SMC would be Head of the unit and in his absence deputies will be Incident Controller or Security Officer.

He will

- Direct the following emergency teams constituted for the purpose and monitors their work.
- Fire fighting Team
- Medical Team
- Evacuation cum Rescue Team
- Facility Support team
- Communication Team
- Security Team
- Rehabilitation Team
- Coordinates the work of external agencies such as fire brigades from mutual aid scheme, public fire services, external experts, etc. at the site of the incident.
- Provides feedback on progress to the SMC and also
- Organize for plant shut-down and evacuation when needed.
- The SMC will decide on the need for plant shutdown and evacuation and will guide the IC as necessary in emergency control operations.

EMERGENCY ORGANIZATION ROLES AND RESPONSIBILITIES

Site Main Controller:

- The Site Main Controller is responsible for activating the emergency plan and assuming overall command during the emergency situation.
- Immediately arrange for an informal on-spot meeting of the members preferably at the emergency control room to take stock of the situation and initiate necessary measures.
- Take on-spot decision on the steps to be adopted based on the type and extent of the emergency and authorize Emergency Response Team (ERT) members and other personnel to execute the specified tasks as decided in the on-spot meeting
- The Site Main Controller is responsible for assessing the emergency situation and coordinate the activities among other functions of emergency response organisations.
- The Site Main Controller is empowered to take any decision to mitigate the emergency situation like deploying additional resources, make immediate purchases etc.
- The Site Main Controller shall arrange all the required facilities through for the necessary medical aid, manpower, money, conveyance etc.
- The Site Main Controller shall be responsible for overall control of emergency situations and shall take decisions on shutdown/restart of the operations considering the degrees of risk and business continuity options.
- The Site Main Controller shall review the emergency situation either directly or through Incident Controller, initiate "Emergency Evacuation" and direct Plant Protection Team Coordinator to blow

"Emergency Siren".

- The Site Main Controller shall initiate and direct Communication Officer for getting external support if needed.
- The Site Main Controller shall be the spokesperson for any external communication during any emergency.
- The Site Main Controller will review the emergency and report to the senior management team on the same.
- The Site Main Controller declares "All Clear Signal" after ensuring the situation is safe and direct Plant Protection Team Coordinator to blow "All Clear Siren".

Alternate Emergency Response Controller:

- In the absence of Site Main Controller, Alternate Emergency Controller will assume the responsibilities of Emergency Response Controller.
- If Site Main Controller is not available assist him in performing the response actions.

Incident Controller:

- On receiving information about the emergency situation, Incident Controller shall try to communicate Fire Fighting Team Coordinator, Evacuation / Rescue Team Coordinator and First Aid Team Coordinator to mobilize their respective team members to incident spot / location.
- Access the magnitude of the incident either by direct witness or through the team members and pass the communication and situation status to Incident Controller.
- If the emergency situation is uncontrollable, advise the team to initiate "Emergency Evacuation".

- Direct the Fire Fighting officer to use the Fire Fighting Team member and contain the fire if it is safe to do so.
- If the situation is unsafe or "Emergency Evacuation" is declared, direct the Evacuation/Rescue officer along with his team to assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- Monitor the situation continuously and pass the communication to Site Main Controller.
- Direct rescue officer and his team to assist the injured person, if anyone found injured.
- Coordinate with rehabilitation officer and ensure that all employees reached "Safe Assembly Point".
- If in case of missing person after head count, direct the rescue team to search for the missing person, if the situation is safe to do so.
- Be vigilance and wait at the "Safe Assembly Area" for further communications.
- In the absence of Site Main Controller and Alternate Site Main Controller, Incident Controller will assume the responsibilities of Site Main Controller.

<u>Alternate Incident Controller</u>

- In the absence of Incident Controller, Alternate Incident Controller will assume the responsibilities of Incident Controller.
- If Emergency Response Coordinator is available assist him in performing actions during emergency situation.

Fire Fighting Officer

- On receiving information about the emergency situation, Fire Fighting officer shall take Fire Fighting Team Members to incident spot / location.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller, try to extinguish the fire, if it is safe to do so, along with the Fire Fighting Team with the available fire fighting equipment.
- In the absence of Communication officer and Alternate Communication officer, Fire Fighting Officer will assume the responsibilities of Communication Officer.

Fire Fighting Team Member

- On receiving information about the emergency situation, reach the incident spot along with Fire Fighting Officer.
- Act as per the instruction from Fire Fighting officer.
- Assist the Fire Fighting Team officer to extinguish the fire, if it is safe to do so, along with the Fire Fighting Team with the available fire fighting equipment.

Medical & First Aid Team

- On receiving information about the emergency situation, First Aid Team shall take First Aid Team Members to incident spot.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller administer first aid to the injured, assisted by First Aid Team.

Rescue Officer

- On receiving information about the emergency situation, Evacuation/Rescue Officer shall take Evacuation/Rescue Team Members to incident spot / location.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller, along with Evacuation / Rescue Team Members, search if any person is injured / needed aid.
- If the situation is unsafe or "Emergency Evacuation" is declared, support the Evacuation / Rescue officer along with his team to assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- If in case of missing person after head count, search for the missing person, if the situation is safe to do so, along with Evacuation / Rescue Team Member.

Evacuation / Rescue Team Member

- On receiving information about the emergency situation, reach the incident spot along with Evacuation / Rescue officer.
- If the situation is unsafe or "Emergency Evacuation" is declared, assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- If in case of missing person after head count, search for the missing person, if the situation is safe to do so, under the direction of Evacuation / Rescue officer.

Technical Officer

- On receiving information/communication about the emergency situation, Technical Officer shall take plant protection team to the incident spot/location and try to initiate safe shut down of the affected area or the whole plant if it is safe to do so.
- Pass the communication about the power isolated areas to Incident Controller or Site Main Controller.
- Be in contact with the Incident Controller and assist them in containing the emergency situation.
- Direct the Plant Protection Team to initiate "Emergency Siren" on receiving "Emergency Evacuation" nod from Incident Controller.
- Ensure that Plant Protection Team members reach "Safe Assembly Area".
- Direct the Plant Protection Team to initiate "All Clear Siren" on receiving "All Clear" nod from Emergency Response Controller.

Head Count Team Coordinator / Rehabilitation officer

- On receiving information/communication about the emergency situation, Head Count Team Coordinator shall take Head Count Team Members to the incident security gate and collect head count details.
- Direct Head Count Team Members to "Safe Assembly Point" with the head count details and wait for further communication.
- If "Emergency Evacuation" is declared assist the employees reaching the "Safe Assembly Point" to stand in order and start head count.
- If any person is reported "Missing" Head Count Team Coordinator shall communicate the same to Incident Controller and Site main controller.

- Coordinate with Incident Controller and Site main controller and ensure that all employees area available/reported at "Safe Assembly Point".
- Upon receiving the "All Clear Siren" , Head Count Team Coordinator signal to the people to disburse from the assembly point.

Emergency Preparedness

- All Risks will be continually monitored in order to minimize the potential of an emergency.
- The Safety of personnel is foremost.
- Emergency Plans are formulated and reviewed in consultation with ERT Members.
- Plans are to be simple but effective.
- A central control is always available.
- Emergency attending personnel are required to be trained in their appointed duties.
- All personnel are regularly trained in appropriate response procedures.
- Emergency drills shall be conducted at least once in 6 months
- Records of tests and drills are maintained by HR Manager .
- Where practicable and appropriate, the participation of external emergency services in emergency drills should be encouraged
- Methods to respond to, mitigate and prevent incidents that require an Emergency Response shall be amended as required.

Reporting to Regulatory Authorities

- All reports to statutory authorities shall be deal by the Human resources or the person delegated by him/her for this purpose.

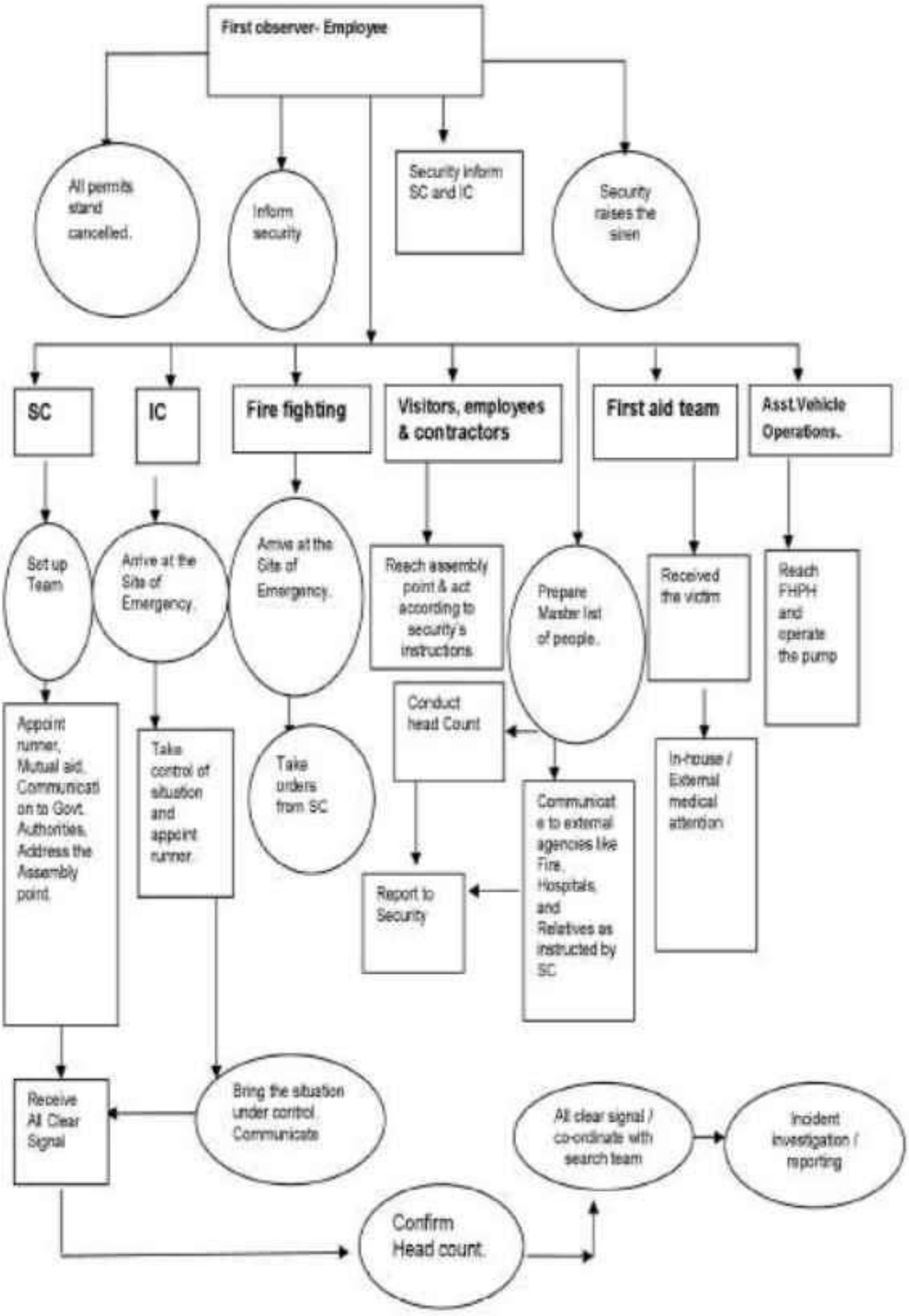
External Communication and Press Release

- Any external communication and press release about the emergencies shall be handled by the senior management team.

Investigation of Root Cause

- Investigation of the incident and identifying the root cause shall be initiated by the unit head by forming a team comprising the concerned department and the others as per procedure.

Emergency flow chart



Do's and Don'ts for Emergency Vehicle Driver

Do's

- Immediately start vehicle and reach rescue squad assembly point.
- Rescue squad members to emergency site.
- Take vehicle near to emergency site as directed.
- Take note of wind direction.
- Keep vehicle engine running.
- Always be on Driver's seat of the vehicle.
- Take the injured to the hospital as directed.

Don'ts

- Do not leave the vehicle.
- Do not take the vehicle very near to the site.

EMERGENCY MANAGEMENT INFRASTRUCTURE

Emergency Control Centre (ECC)

The Emergency Control Room located in the Admin office. The following infra-structural facilities will be available in the Emergency Control Room:

- P & T Telephones;
- Intercoms;
- Local Area Plan;
- Predominant wind direction and velocity charts;
- List of Fire Extinguishers
- Emergency Control Numbers List;

- Fire Suit;
- Breathing Apparatus Set;
- Face Masks;
- Emergency Lights;
- First Aid Items;
- White Board with Marker Pens;
- Sufficient numbers of Emergency Plan copies and
- Mega phone.

Assembly points

- Located well away from plant and equipment and nearer to exit of plants.
- To be conspicuously displayed.
- Assembly points are marked opposite to admin building.

Escape routes

- To lead away from each occupied area in plant towards assembly points
- Arrow markings were done along the route

Emergency Siren

Emergency siren has been provided with 1.0 KM range of audibility .The siren will operate on regular supply and also an emergency electrical supply.

Wind Sock

Wind socks to observe the wind directions installed on the top of the building.

DETAILS OF SYSTEM

(Warning / Alarm / Safety / Security / Sensor & Control System / Structural Design / Maintenance / Surveillance)

Warning, Alarm, Safety and Security Systems

The smoke detection sensor provided in all over the plant is set to raise alarm audible outside the plant. A security guard mans storage yard round the clock and unauthorized entry is restricted. Special precautions are taken during unloading like the standard precautions for parking a flammable container truck and removing ignition keys are followed.

Alarm and hazard control plans in line with disaster control and hazard control planning, ensuring the necessary technical and organization precautions

A manual hooter is available with the security office to be used during emergency and in situations when other events may need for evacuation of personnel. All the equipment in plant are serviced regularly by well-experienced maintenance.

Precautions in designing of the foundation and load bearing parts of the building

All constructions have been designed and installed by recognized engineering organizations as per good engineering practices. All necessary precautions have been taken regarding the designing of the foundation and load bearing parts of the buildings.

Continuous surveillance of operations

Qualified, experienced and well-trained personnel are available round the clock in three shifts. They take care of the continuous surveillance of all operations.

Maintenance and repair work according to the generally recognized rules of good engineering practices

Effective predictive and preventive maintenances are adopted in the plant to prevent equipment failures.

EMERGENCY PROTECTION FACILITIES

Fire protection system

Fire Protection system has been installed as per Tamil Nadu factories rule. The details of fire hydrant system as given in annexure.

Portable Fire Fighting Equipment's

Adequate numbers of DCP/CO2 extinguishers are provided at strategic locations and all extinguishers are clearly visible and easily accessible. The extinguishers are installed in such a way that the top of the extinguisher does not exceed 1.5 mts from the ground level.

The travel distance to any extinguisher in process area does not exceed 15 mts where as in the offsite area it does not exceed 30 mts as per OISD.

Fire extinguisher

The company has trained personnel for fire fighting and its intends to improve the fire fighting skills of their employee by conducting training on Fire fighting. There are portable fire extinguishers and the emergency response team who were trained in fire fighting is given in annexure.

EMERGENCY ACTIONS DURING NATURAL CALAMITIES

(Tsunami/ flood/ earth quake/storm)

Response

- Communication Officer will confirm the Information about the Natural Calamity with the Onsite Main Controller and he will inform to the Incident controller.
- Communication Officer will inform to all emergency coordinators.
- Communication Officer will inform to all employees in the plant in consultation with the Incident controller to assemble them in nearby Emergency shelters and Safe Assembly Points.
- Safety and fire coordinator must ensure the evacuation of persons to safe assembly point from the incident area and ensure the necessary arrangements through fire crew and emergency teams for engaging fire fighting/ rescue operations/ de-watering/ evacuations etc., and report to incident controller time to time to bring the situation under control.
- Communication Officer will inform the number of persons inside the plant to the Facilities Coordinator, Transport Coordinator and Medical coordinator.
- Facilities coordinator will arrange the additional facilities required for

the number of persons in the plant and he will inform the status to the Incident controller.

- Transport coordinator will arrange adequate Transport Facilities to evacuate the persons in the plant at that time and he will inform the status to the Incident controller.
- Medical coordinator will arrange adequate medical facilities to tackle the situation and he will inform the status to the Site emergency controller.
- Requirement to be evolved by the Transport coordinator and Facilities coordinator for additional transport and other facilities.
- Additional facilities will be arranged by the Transport coordinator and Facilities coordinator from the industries in Mutual Aid.
- Response Team Leader will ensure adequate number of Technical persons in plant for Safe Shutdown and he will inform the status to the Site emergency controller.
- Facility support team leader will ensure the availability of Power for Safe shutdown and Safe evacuation.
- Incident controller and Security coordinator will ensure that all Hazardous storage facilities and Installations are rendered safe and secured.
- Communication Officer will have liaison with the Deputy emergency coordinator to monitor the status continuously and will inform to the Incident controller.
- Requirement of the shutdown of the plant will be decided by response team leader in consultation with the Incident controller through Communication Officer.

- If required safe shutdown of the plant will be ensured by the response team leader.
- Location of the Safe assemble point and escape route for safe evacuation will be decided by the Transport and Security coordinator in consultation with the Incident controller.
- Safe evacuation of the people will be ensured by the Transport coordinator and security coordinator as per the Priority and Importance.
- In case of flood ensure the more no of fire tenders/ fire pumps from mutual aid factories, Govt agencies for de watering by safety and fire coordinator.

PRECAUTIONARY MEASURES TAKEN AND FOLLOWED DURING PANDEMIC SITUATION IN OUR FACTORY

We are hereby confirming that we have taken the following precautionary measures during the COVID-19 pandemic situation in our manufacturing facility.

- Body temperature is being tested for all the personnel while entering the factory premises and records are maintained.
- Blood Oxygen Level is being checked for all the personnel while entering the factory premises and records are maintained.
- Facemask is being given to all the personnel while entering the factory premises and ensuring all are wearing facemask within the premises

- A face shield is being given to employees in the workplace wherever required.
- Foot-operated hand sanitizing dispensers are placed in and around the workplace and these dispensers are regularly refilled
- Vehicle disinfection is being done while entering the factory premises.
- Social distancing is being followed while entering factory premises and all other areas.
- Acrylic partitions in the workplace and canteen are being done to maintain social distancing.
- Foot-operated water valves are placed in restrooms and dining areas.
- Restrooms are being disinfected once in two hours.
- Factory premises and workplaces are being disinfected twice a week by the external service provider.
- Workplaces are being disinfected every day after the completion of shift.
- Work From Home option is extended to employees to reduce the headcount.
- Kabasura Kudineer and Inji Kasayam are being given to all employees on alternative days.
- Pedestal fans are arranged to avoid the usage of air-conditioners.
- Windows and doors are opened whenever possible to ensure the venue is well ventilated.
- Running the factory operation with a limited number of employees as per the government guidelines.

- No migrant-workmen added newly during the pandemic situation.
- Pre-employment medical is being done for all the recruits.
- Ensuring workplaces are clean and hygienic.
- Surfaces and objects are wiped with disinfectant regularly.
- Continuous leaves of employees are being monitored and maintained.
- If someone feeling sick, they are advised to take leave and monitor themselves for symptoms for a minimum of 14 days.

If someone quarantined for 14 days, they advised to submit the RTPCR test report a day before reporting back to the office.

RECOVERY PROCEDURE

The procedures outlined in this section are intended for re-established normal operations at the earliest after an emergency. In addition, the procedure also provides for determining the cause of the accident, so that such incidents can be prevented in future.

This section is divided into five parts:

1. Incident investigation.
2. Establishing a recovery team.
3. Damage Assessment.
4. Clean up and restoration.
5. Post-Emergency and Recovery Reporting.

Deputy General Manager will arrange to organize suitable teams for the above tasks.

Incident Investigation

Incident investigation should be taken up to determine the cause of the emergency and means of preventing any such occurrences again.

Procedure

The investigation team should immediately seal off the incident scene and commence it's investigation to minimize the loss of any physical evidence.

The investigation of the scene should include,

1. Photographing the area.
2. Determining the point of origin of the Fire/Leak/Explosion, if applicable.
3. Note the position of valves, controls and devices.
4. Notes any unusual items in the area or any damage that is inconsistent with the type of incident.

Written or recorded statements are to be taken from all operators' involved, potential witnesses and others who might have pertinent knowledge about the incident.

Report

A final report is to be prepared to include the most probable cause(s) and recommended corrective measures.

The report should consider

1. Failure of equipment
2. Failure of maintenance
3. Failure of procedures

4. Inadequate training
5. Human error etc.

Corrective Actions

The investigation team is also responsible for conducting a review of response activities during the emergency to evaluate the adequacy of training, equipment and procedures.

The Chief Executive is responsible for ensuring that all corrective actions to prevent recurrence of the incident are taken and to ensure better responses to emergencies, if any in future.

Recovery Team

Purpose

In order to facilitate the restoration of normal operations of the company after an emergency, a team is to be constituted by Chief Executive to manage recovery activities, including damage assessment.

Organization

The Recovery Team's organization will vary depending on the nature of the incident and the extent of recovery operations. As a general rule, however, individuals representing Maintenance, Production, Safety, Quality Control, Accounts, Engineering etc., should be involved.

The recovery team is responsible for damage assessment, clean up and salvage operations and the restoration of normal operations.

A primary function of the recovery team will be to assess the damage to structures, equipment and materials.

Clean-up and Restoration Operations

As soon as incident investigations are completed and restoration plans have been made, clean up and restoration activities should commence.

Damaged Equipment

Prior to restoration of normal operations, all affected equipment's are to be tested and checked according to procedures established.

Post-Emergency Recovery Reports

The officer-in-charge of Safety is to hold review sessions with emergency response personnel to evaluate.

1. The adequacy of emergency response procedures.
2. The adequacy of the investigation of the cause of the incident
3. Summarize the post-emergency activities.
4. A full report is to be prepared and copies given to all persons as necessary. The final report will summarize all previous reports and reviews as mentioned in this section.

MUTUAL AID SCHEME

The essential elements of Mutual aid agreement

1. Mutual Aid Scheme must be a written document, signed by the Chief Executives of all the industries entering into agreement.
2. It should specify available quantity of materials / equipment that can be spared (not all which is in stock). This quantity should be mentioned as the critical minimum stock for each item and shall be maintained always.
3. Mode of requisition during an emergency:
   a) It should authorize the shift-in-charge to quickly deploy available materials/equipment without waiting for formalities like gate pass etc.
   b) It should spell out mode of replacement of material given during an emergency.
   c) It should specify key personnel who are authorized to request materials from other industries or who can send materials to other industries.
   d) It should clearly state the mode of receipt of materials at the affected unit without waiting for quantity/quality verification.
4. Revision number and period of validity should be mentioned.
5. This may be updated form time to time based on experience gained.

A mutual understanding of help in emergency is agreed upon between nearby industries.

REVIEW AND UPDATION OF PLANS

This On-site emergency plan needs constant review and updating based on the following requirements.

1. Major change in the operational activities and location
2. Valuable inputs from actual disasters
3. Lessons learnt from training
4. Inputs from mock drills/ simulation exercises
5. Lessons learnt from near-miss incidents
6. Changes in disaster profile
7. Technological developments/ innovations in identifying potential hazards
8. Changes in regulatory requirements

The most important component of testing this on-site emergency plan is to conduct mock drill or simulation exercise in order to identify the positive elements as well as gaps.

Need For Mock Drill

Mock drill exercise is pertinent to verify the level of preparedness and improve the coordination during emergencies. This has to be based on past experiences and lessons learnt.

They help in identifying the extent to which the Plans are effective and also aid in revising these if required. These drills enhance the ability to

respond faster, better and in an organized manner during the response and recovery phase.

The approach for conducting a mock-drill varies as per the complexity of scenario depending upon the potential hazards, response system of the institution.

Therefore, to ensure proper implementation of a drill programme, roles and responsibilities (SOPs) of the concerned personnel, departments, corporate bodies, and mechanisms for conducting the drill should be delineated clearly.

For Effective Mock Drill

Regardless of the size, complexity and risk involved in the implementation of the drill, an effective drill/exercise programme should have the following essential elements as prerequisites:

- Emergency Response Plan explaining institutional response structure, emergence response functions and standard operating procedures for various departments
- Updated database of resources, equipment and manpower available
- Mock-drill Scenario and detailed action plan for Mock-drill
- Updated Emergency Directory with important contact details of members of various Departments.
- Evaluation formats for concerned departments and definite criteria for evaluation
- Observers and Qualified evaluators

- Lessons learnt from the actual drills and exercises would be useful to revise operational plans.

The drills and exercises will help to -

- Identify planning gaps
- Revise Standard Operating Procedures (SOPs) to enhance coordinated emergency response
- Enhance capacities of professionals, departments and trained volunteers.

Observers /Evaluators

Their role is to observe the actions and decisions of the players, in order to later report what went well and what did not. The main focus is on the performance of functions and or/agencies, institutions and facilities being tested, keeping in mind the objectives of the exercise.

Tips for Conducting Mock Drill

- Organize the mock drill which is representative of a real situation.
- Create a list of all participants before starting the drill.
- Explain the objectives, duration, "do's and don'ts" clearly to all participants
- Inculcate the practice of escorting the vulnerable to safe assembly areas
- Finally there shall be a head count to ascertain everybody has safely reached the safe spot.

- The participants should be advised not to panic during the mock drill. At the same time, they should be advised to be alert and participate seriously.
- Prior to conducting the drill, the drill team members should be trained in the duties, responsibilities and activities related to their respective positions in the conduct of the drill.

Guidelines for Conducting Mock Drill

When conducting drills, a set process should be followed in order to minimize risks of injury to personnel, damage to equipment or the environment.

Pre-Drill Briefing

The drill coordinator should hold a pre-drill briefing with the participants, observers/evaluators to explain the scene and the ground rules for executing the drill.

Operational procedures should be reviewed and safety precautions should be considered and reviewed with the participants. In a scenario which has a potential to cause damage to the habitat, it is important to involve the community and discuss the possible chain of events with them.

Drill Initiation

The drill should be initiated by the mock drill coordinator in accordance with the planned drill scenario. The exact actions for the initiation should be identified.

Drill Activity

After the drill is initiated, every activity and response should be carried out according to the scenario and respective roles. Methods for receiving and delivery of messages can be verbal or written; on paper, by telephone, radio or fax. The drill scenario should be allowed to continue till completion of the stated objectives or as stated by the mock drill coordinator.

Guidelines for Drill Evaluation

Evaluation process is an important component of the drill. It is the act of observing and recording mock drill activity, by comparing the performed actions against the drill objectives.

Evaluation serves three functions:

- To evaluate personnel actions
- To evaluate the ability of the responding agencies to implement a plan
- To check the effectiveness of the standard operating procedures

During the pre-drill briefing, the drill planner, mock drill coordinator and evaluation team will review the drill activity and SOPs. An evaluation worksheet outlining the action processes to be observed as per the set timeline decided in the scenario exercise should be circulated. After the drill, an evaluation report will be prepared and the comments can be incorporated into the SOPs.

Evaluation Team

The team members may be identified from within or outside the participating agencies.

The mock drill coordinator may also serve as an evaluator. The size of the evaluation team will depend on the complexity and scale of the drill. Evaluators should be familiar with the local emergency management system, have expertise and knowledge of the plan and have analytical skills in keeping with the exercise design.

Elements for Evaluation

The evaluators should consider the following elements in their evaluation

- Notification, alerting and mobilization of disaster response personnel
- Adequacy of alerting procedures
- Timely activation and staffing of response facilities
- Accurate and timely assessment of emergency situation
- Emergency response facilities
- Adequate personnel as per the Response Plan
- Adequate response equipment
- On-site preparedness plans and procedures
- Assigned task forces, personnel's demonstrated familiarity with the plans and standard operating procedures
- Following the set process of the procedures and plans
- Communications capabilities between response facilities
- Adequate timely communication with field teams
- Use of primary and back-up communication systems

- Satisfactory handling of messages and communication from control room to the field site and vice-versa
- Adequate communications between emergency support functions
- Situation assessment
- To be able to demonstrate timely and coordinated information exchange between response facilities
- To be able to assess the emergency situation, classify the situation and develop initial mitigation/restoration activities in a timely and accurate manner.

Feed Back & improvements

Following the drill, the mock drill coordinator will hold a session to critique the drill along with the evaluators and drill team. The critical analysis highlights the successes, shortcomings of the drill scenario, personnel's actions, equipment accessibility etc. The feedbacks and improvements include an analysis of the expected versus the actual operating actions including a critical evaluation of the response mechanisms and response time. The process should first involve

- Self-evaluation by the participants
- Discussion of the evaluation notes, checklists and actions taken
- Overall drill performance.

Lessons learnt should be generated and shared with all the participating agencies to ensure improvements and effectiveness for live scenarios. The mock drill coordinator shall make the final determination of whether the drill objective was met or not.

Mock Drill Evaluation Report

The evaluation report summarizes the development, conduct and results of the drill/exercise. The report should present an overall evaluation of the exercise, state whether the exercise objectives were achieved, and cite any areas of noteworthy performance, discoveries, determinations, problems, and solutions identified as a result of the exercise.

Note: Schedule to conduct the Mock drill for any specified emergency will be planned by HR & Security team in the beginning of each year.

ANNEXURES

ANNEXURE -I

KEY PERSONNEL AND CONTACT NUMBERS

(Key personnel of the organization is assigned to them in caseof an emergency)

SL.NO.	CONTACT PERSON	DESIGNATION	CONTACT NUMBER
1	DEVARAJ	HR ADMIN	9940048721
2	GURUMOORTHY	ADMIN	9940048722
3	AVATAR SINGH	FOREMAN	9894136982
4	A.DHINAKAR	SUPERVISOR	9840472266
5	SIVARAJ	SECURITY	9578996506
6	D.SIGAMANI	MAINTENANCE INCHARGE	6381347452
7	K.V BABU	ELECTRICAL INCHARGE	9840824080

ANNEXURE -II

EXTERNAL ORGANIZATIONS ASSISTANCE

(Outside organizations involved in assisting during on-site emergency)

FIRE	
Control Room	101
Gummidipoondi	044 27929267 , 9445086160
Gummidipoondi SIPCOT	044 27922701 , 9445086161
Thiruvallur	044 27660299 , 9445086158
POLICE	
Control Room	100
Gummidipoondi SIPCOT	044 2792 2861
DSP - Gummidipoondi	9444254901
SP- Thiruvallur	044 2766 1010
HOSPITAL	
ALPHA HOSPITALS	8925414999
ESI Gummidipoondi	9445330518
Stanley Hospital	044 2528 2350
Govt.Gen.Hospital - Thiruvallur	044 27660242
Ambulance - Emergency	108
DIRECTRATE OF INDUSTRIAL SAFETY AND HEALTH	
Director	044-22502103
POLLUTION CONTROL BOARD	
TNPCB, Chennai	044-22353134
District Environment Engineer	044-27922465
DISTRICT AUTHORITY	
District Collector, Thiruvallur	044-2766 1600
ELECTRICITY BOARD	
Electricity sub station SIPCOT Gummidipoondi	9445850932

ANNEXURE -III

LIST OF PERSONAL PROTECTIVE EQUIPMENT

S.No	PPE's
1	Safety Helmet
2	Safety Goggles
3	Safety Shoes
4	PVC Apron
5	Cotton gloves Gloves
6	PVC gloves
7	Nitrile gloves
8	Leather apron
9	Cotton gloves
10	Nose mask
11	Boiler suit
12	Aluminized suit
13	Rubber gloves
14	Ear plug
15	Ear muff
16	Welding shield
17	Gas cutting visor
18	Heat resistant gloves
19	Nylon life line rope
20	Gum Boots
21	Safety Belt
22	Chemical Cover All
23	White goggles
24	Black goggles

ANNEXURE -IV
MOCK DRILL REPORT

தீயினால் பணியிழப்பு 100 சதவீதமாகும்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

FIRE MOCK DRILL REPORT

PLACE:

KANISHK & OP STEELS INDUSTRIES LTD

Plot No.B-27 (M) SIPCOT Industrial Complex,

Gummidipoondi – 601 201.

Date : 03.04.2023.

FIRE MOCK DRILL REPORT

Factory : KANISHK & OP STEELS INDUSTRIES LTD

MUTUAL MEMBERS PARTICIPATED:

1. Mr. Ashok Thakur, General Manager,
2. Mr.Avtar Singh, Foreman,
3. Mr.Dewaram Puniya, Production Manager,
4. Mr.K.V. Babu, Electrical Engineer,
5. Mr.Sigamani, Maintenance Incharge
6. Mr.Gurumoorthy,Cashier
7. Mr.Govindaraj, H.R. Asst.
8. Mr.S.Selvaraj, Fire Officer,

1.	Location	:	**Emergency Assembly Point**
2.	Date of Fire Mock Drill	:	**03.04.2023**
3.	Time	:	**14.30 hrs**
4.	Time of Siren	:	**16.30 hrs**
5.	Evacuation of total time	:	**02.00 minutes**
6.	Total Employee	:	Staff: **42** / Worker: **94** / C.L: **80** / H.K: **12** / Security: **12** / Total: **240**
7.	Safety, First Aid, Health	:	Lecture by S.Selvaraj, Fire Officer.
8.	Communication System	:	Land Line
9.	Rescue Operation if any	:	Disaster Management Methods of Rescue and Evacuation
10.	Participation, observation by external agency / visiting staff if any	:	N I L
11.	Details of equipment used	:	Different types of D.G.pumps and main pumps and jockey pumps operating system in panel board to all the staffs.
12.	P.P.E	:	Following as per norms
13.	Preventive measures	:	GOOD
14.	Drill effectiveness	:	GOOD
15.	Participation / Role clarity	:	Training given to operate all the hydrant point and monitors.
16.	Team work and Co-ordination	:	First aid training also carried out.

03/04/2023

17.	Performance of facilities	:	SATISFACTORY
18.	Housekeeping	:	GOOD
19.	Suggestions to improve	:	To conduct mock drill and fire drill as per the norms by Fire Department.
20.	Short comings if any	:	Given Train to Security to operate extinguisher with PASS Method
21.	All Clear	:	**16.35 Hrs.**
22.	Half yearly Mock Drill 2023	:	**SATISFACTORY**
23.	Information given to	:	
i)	Office of the Factory Depts	:	**044 – 28112155,**
ii)	Pollution control Board	:	**044 – 27664425**
iii)	Police Station	:	**044 – 27922996**
iv)	Local Hospital G.H.	:	**044 – 27929357**
v)	Fire Station, SIPCOT	:	**044 – 27922701**
vi)	District Emergency Authority	:	**044 – 27974073**
vii)	TNEB	:	**044 – 27922801**
24.	Alarm System	:	
	Is alarm Audible in all work area?	:	**Yes**
25.	Wind Direction Indicator	:	
	Whether the indicator for wind direction visible from all places in plant	:	**Yes, It is located near Building Tower.**
26.	Control Room and Communication System	:	
	Were the communication system and their maintenance adequate	:	**Security Incharge and H.R. Safety Department**
27.	Communication System available incase of power failure including the name of messenger?	:	**Yes** **Security person and Safety Department**

03/01/2023

29.01.2023
03/01/2023.

Fire officer,
Fire and Rescue Station,
Gummidipoondi – SIPCOT

காக்கும் பணியில் 100 ஆண்டுகள்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

CERTIFICATE

This is to certify that **M/s.KANISHK & OP STEELS INDUSTRIES LTD.,** Plot B-27, (M) SIPCOT Industrial complex,,Gummidipoondi Taluk– 601 201, periodically mock drill – 2023 on 03.04.2023 at 14.30 hrs to 16.30 hrs. between Staff and Labours, Security, Housekeeping Total 240 Members. Given Training and Lecture for about DG pump, main pump and jockey pump operating system in pump room panel board and training given to operate all the hydrant point and monitor system with fire fighting during summer seasons to all the staff and operate the Hydrant System first aid fire fighting portable extinguisher in the factory premises at the time of emergency.

Evacuation Drill Exercise also trains for Disaster Control Management Plan to all staffs by factory norms.

03/04/2023

Office Seal

03/04/2023.

Fire officer,
Fire and Rescue Station,
Gummidipoondi – SIPCOT



























































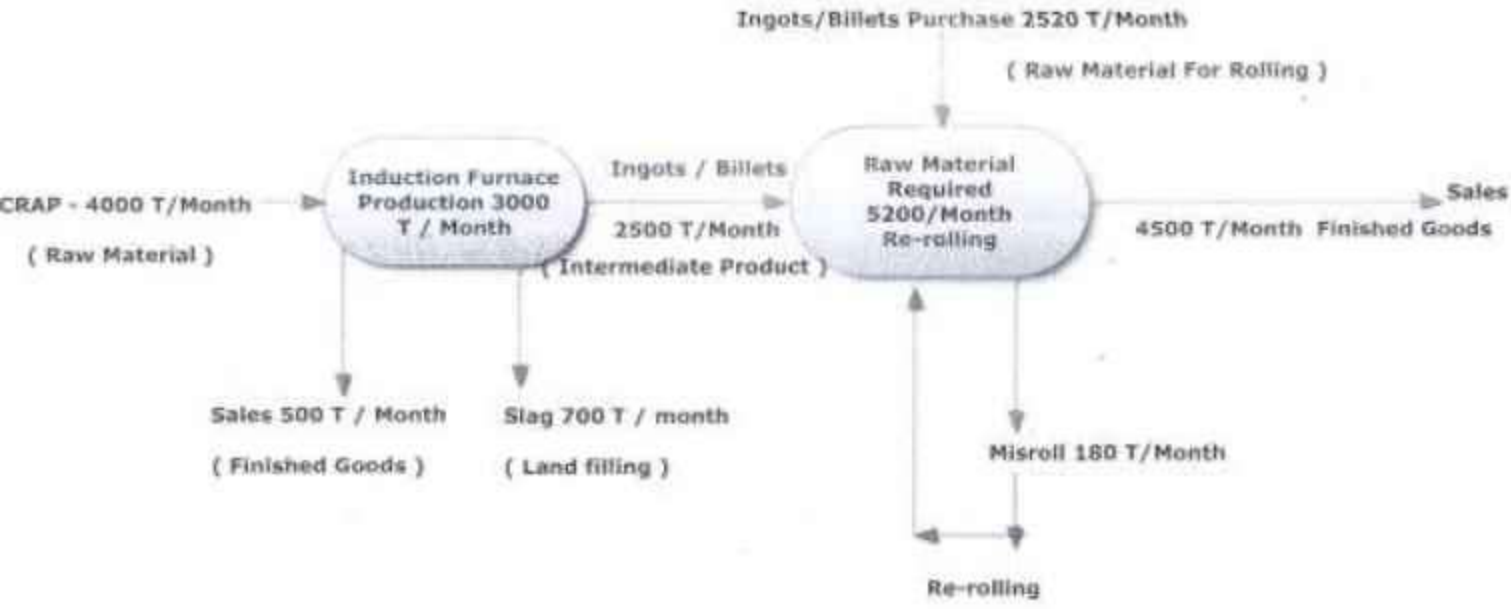




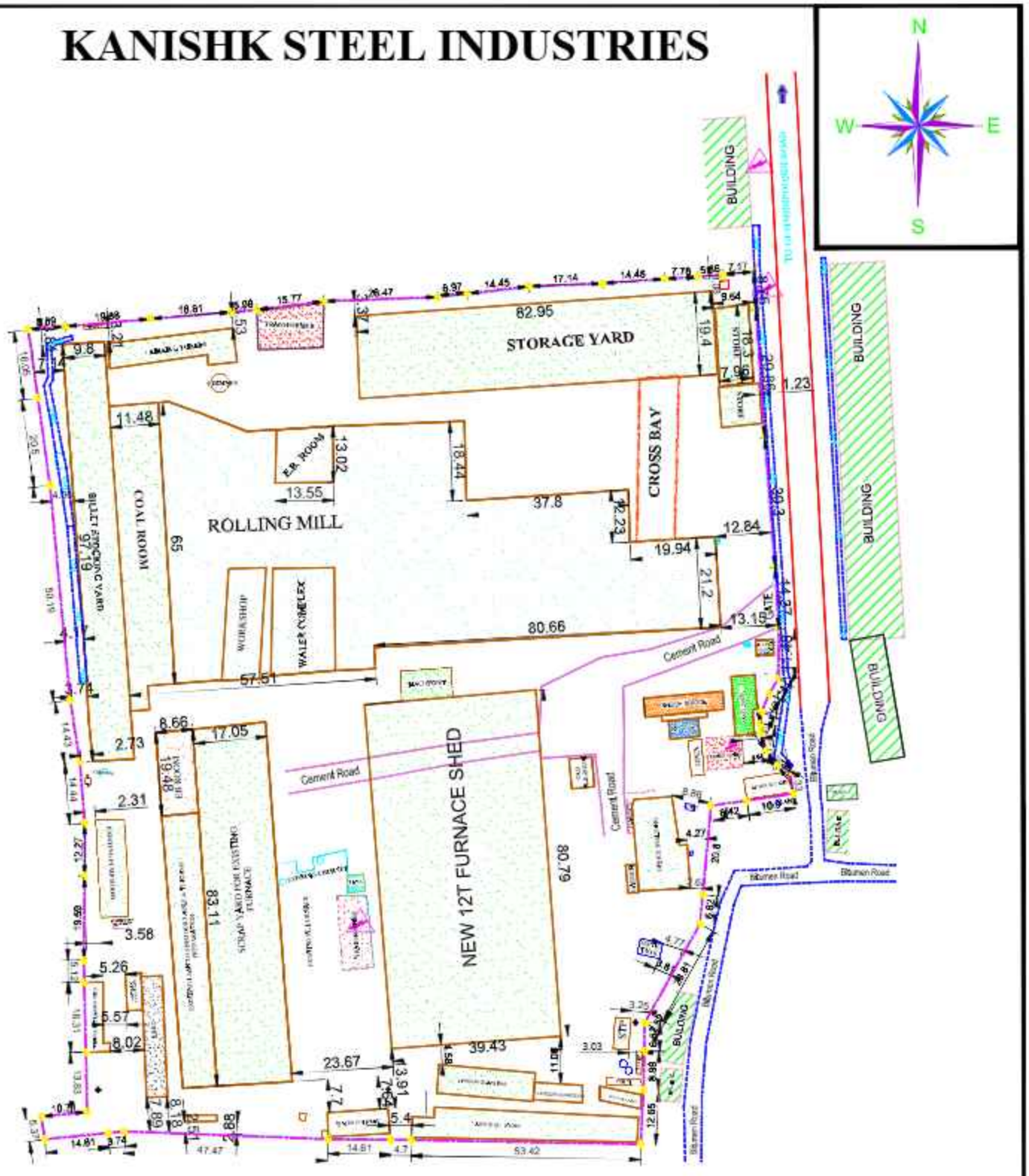

FIGURE - 1.2
10 KM RADIUS TOPOMAP USING SURVEY OF INDIA TOPOSHEETS

KANISHK STEEL INDUSTRIES LIMITED

Material Balance



KANISHK STEEL INDUSTRIES



LEGEND

SYMBOL	DESCRIPTION
	BOUNDARY LINE
	EXISTING BUILDING
	DRAIN

NOTE :

1. All Dimensions & levels are in metres.
2. Drawing Shown on this Map is based on the Magnetic North.
3. - Benchmark has been established on the Road (CP1 Point) value of +100.00m arbitrarily.
4. Block levels have been taken at 5 meter intervals. Contours have been drawn at 0.25m intervals.

SURVEYED & PLOTTED BY	SBV Survey And Engineers	Mob:- 9786902363	
	ENGINEERING & CONSULTING SURVEYS		
	# 2/115, Puthagaram (village and post) Tiruppattur (D.T.) Tamil Nadu-635601		
TITLE	TOPO MAP SURVEY DRAWING OF BUILDINGS & GROUND LEVELS		
	SCALE 1:1000		
	SPOT VENTRAL CUMBUM POST, THIRUVALLUR - 602001		
CLIENT	KANISHK STEEL INDUSTRIES		
SCALE	1 : 1000	AREA	Full Area Hectare= 7.465
PERIOD	SEP - 2022		Full Area Square Feet= 372733

7.0 ADDITIONAL STUDIES

7.1 Risk Assessment and Disaster Management Plan

Hazard analysis involves the identification and quantification of the various hazards (unsafe conditions) that exist in the plant. On the other hand, risk analysis deals with the identification and quantification of risks, the plant equipment and personnel are exposed to, due to accidents resulting from the hazards present in the plant.

Risk analysis follows an extensive hazard analysis. It involves the identification and assessment of risks the neighbouring populations are exposed to as a result of hazards present. This requires a thorough knowledge of failure probability, credible accident scenario, vulnerability of population etc.

In the sections below, the identification of various hazards, probable risks in the proposed modernization of Steel Rolling Mill, maximum credible accident analysis, consequence analysis are addressed which gives a broad identification of risks involved in the plant. Based on the risk estimation for fuel and chemical storage, Disaster Management Plan (DMP) has been prepared.

7.1.1 Approach to the Study

Risk involves the occurrence or potential occurrence of some accidents consisting of an event or sequence of events. The risk assessment study covers the following:

- Identification of potential hazard areas;
- Identification of representative failure cases;
- Visualization of the resulting scenarios in terms of fire (thermal radiation) and explosion;
- Assessment of the overall damage potential of the identified hazardous events and the impact zones from the accidental scenarios;
- Assessment of the overall suitability of the site from hazard minimization and disaster mitigation points of view;
- Furnishing specific recommendations on the minimization of the worst accident possibilities; and
- Preparation of broad Disaster Management Plan (DMP), On-site and Off-site Emergency Plan, which includes Occupational and Health Safety Plan.

7.1.2 Hazard Identification

Identification and quantification of hazards in the steel industry modernization is of primary significance in the analysis, quantification and cost effective control of accidents. A classical definition of hazard states that hazard is in fact the characteristic of system/plant/process that presents potential for an accident.

Hence, all the components of a system/plant/process need to be thoroughly examined to assess their potential for initiating or propagating an unplanned event/sequence of events, which can be termed as an accident. The following two methods for hazard identification have been employed in the study:

- Identification of major hazardous units based on Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 of Government of India (GOI Rules, 1989); and
- Identification of hazardous units and storage units based on relative ranking technique, viz. Fire-Explosion and Toxicity Index (FE&TI).

7.1.3 Identification of Major Hazardous Units

Hazardous substances may be classified into three main classes such as flammable substances and unstable substances and toxic substances. The ratings for a large number of chemicals/substances based on flammability, reactivity and toxicity have been given in NFPA Codes 49 and 345 M. In the proposed project expansion, HSD will be stored in-built tank of DG set for generation of power in case of grid failure. The details of HSD storage and its classification as per GOI rules are given in **Table-7.1**. Hazardous characteristics of HSD are listed in **Table-7.2**.

TABLE-7.1
APPLICABILITY OF GOI RULES TO FUEL

Sr. No.	Chemical/ Fuel	Listed in Schedule	Storage	Threshold Quantity (T) for Application of Rules	
				5,7-9,13-15	10-12
1	HSD	3 (1)	240 Lit – Inbuilt storage within DG set	25 MT	200 MT

TABLE-7.2
PROPERTIES OF STORAGE FUELS

Chemical/ Fuel	Codes/Label	TLV	FBP	MP	FP	UEL	LEL
			°C			%	
HSD	Flammable	5 mg/m^3	369	338	32.9	7.5	0.6

TLV : Threshold Limit Value
MP : Melting Point
UEL : Upper Explosive Limit
FBP : Final Boiling Point
FP : Flash Point
LEL : Lower Explosive Limit

7.1.4 Common Causes of Accidents

Based on the analysis of past accident information, common causes of accidents are identified as:

- Poor housekeeping;
- Improper use of tools, equipment, facilities;
- Unsafe or defective equipment facilities;
- Lack of proper procedures;
- Failure to follow prescribed procedures;
- Jobs not understood;
- Lack of awareness of involved hazards;
- Lack of guides and safety devices; and
- Lack of protective equipment and clothing.

7.1.5 Failures of Human Systems

Major causes of human failures reported are due to:

- Stress induced by poor equipment design, unfavourable environmental conditions, fatigue, etc.;
- Lack of training in safety and loss prevention;
- Indecision in critical situations; and
- Inexperienced staff being employed in hazardous situations.

Often, human errors are not analyzed while accident reporting and accident reports only provide information about equipment and/or component failures. Hence, a great deal of uncertainty surrounds analysis of failure of human systems and consequent damages.

7.2 Hazard Assessment and Evaluation

7.2.1 Methodology

An assessment of the conceptual design is conducted for the purpose of identifying and examining hazards related to utility and support systems, environmental factors, facilities, and safeguards.

7.2.2 Preliminary Hazard Analysis (PHA)

A preliminary hazard analysis is carried out initially to identify the major hazards associated with storage and the processes of the plant. This is followed by consequence analysis to quantify these hazards. The various process activities involved in the plant purely mechanical operations those are not complex or hazardous. Hence, no major hazards with potential for any emergency situation exist in the process plants. The other hazards related to the Plant and storage areas are given below in **Table - 7.3**.

TABLE - 7.3
PRELIMINARY HAZARD ANALYSIS FOR PROCESS AREAS

Equipment	Process	Potential Hazard	Provision
Induction furnaces	The MS scrap is charged into the furnace where it gets melted and is converted to liquid metal	▪ Charging a furnace with impure or moist scrap metal and alloys. ▪ Pouring or tipping the molten metal into a holding furnace or ladle. ▪ Pouring the molten metal from ladles into molds.	✓ Barriers and other protecting covering, including the mobile shields should be used. ✓ Set up to protect workers against the splashes of molten metal and electromagnetic radiation. ✓ Using of PPE (Personal Protective Equipment) must reduce or eliminate the risks associated with the handling of molten metal in melting unit.
Power Transformers	Transmit the power from high tension to low tension	Fire and explosion	All electrical fittings and cables are provided as per the specified standards
Switch Yard Control Room	-	Fire in cable galleries and switch	As above

TABLE-7.4
PRELIMINARY HAZARD ANALYSIS IN GENERAL

PHA Category	Description of Plausible Hazard	Recommendation	Provision
Environ-mental factors	If there is any leakage and eventuality of source of ignition.	-	All electrical fittings and cables will be provided as per the specified standards. All motor starters are flame proof.
	Highly inflammable nature of fuels may cause fire hazard in the storage facility.	A well designed fire protection including protein foam, dry powder, CO_2 extinguisher should be provided.	Fire extinguisher of small size and big size are provided at all potential fire hazard places. In addition to the above, fire hydrant network is also provided.

7.2.3 Maximum Credible Accident Analysis (MCAA)

Hazardous substances may be released as a result of failures or catastrophes, causing possible damage to the surrounding area. A disastrous situation may arise due to outcome of fire, explosion or toxic hazards in addition to other natural causes, which eventually lead to loss of life, property and ecological imbalance. Major hazards posed by flammable storage can be identified taking recourse to MCA analysis. Depending upon the effective hazardous attributes and their impact on the event, the maximum effect on the surrounding environment and the respective damage caused can be assessed.

The results of consequence analysis are useful for getting information about all known and unknown effects that are of importance when some failure scenario occurs in the proposed expansion activity and also to get information as how to deal with the possible catastrophic events. It also gives the residents in the project and people living in the vicinity of the area, an understanding of their personal situation.

Damage Criteria

The Inbuilt storage of HSD in the DG Set and unloading facility may lead to fire and explosion hazards. The damage criteria due to accidental release of any hydrocarbon arise from fire and explosion. The vapors of these fuels are not toxic and hence no effects of toxicity are expected.

Tank fire will occur if the radiation intensity is high on the peripheral surface of the tank leading to increase in internal tank pressure. Pool fire will occur when fuel collected in the dyke due to leakage gets ignited.

- **Fire Damage**

A flammable liquid in a pool will burn with a large turbulent diffusion flame. This releases heat based on the heat of combustion and the burning rate of the liquid. A part of the heat is radiated while the rest is convicted away by rising hot air and combustion products. The radiations can heat the contents of a nearby storage or process unit to above its ignition temperature and thus result in a spread of fire. The radiations can also cause severe burns or fatalities of workers or fire fighters located within a certain distance.

Hence, it will be important to know beforehand the damage potential of a flammable liquid pool likely to be created due to leakage or catastrophic failure of a storage or process vessel. This will help to decide the location of other storage vessels and decide the type of protective clothing the workers/fire fighters need, the duration of time for which they can be in the zone, the fire extinguishing measures needed and the protection methods needed for the nearby storage/process vessels. The damage effects on people and equipment due to thermal radiation intensity are presented in **Tables-7.5** and **Table-7.6** respectively.

TABLE-7.5
DAMAGE DUE TO INCIDENT RADIATION INTENSITIES

Sr. No.	Incident Radiation (kW/m^2)	Type of Damage Intensity	
		Damage to Equipment	Damage to People
1.	37.5	Damage to process equipment	100% lethality in 1 min. 1% lethality in 10 sec.
2.	25.0	Minimum energy required to ignite wood at indefinitely long exposure without a flame	50% Lethality in 1 min. Significant injury in 10 sec.
3.	19.0	Maximum thermal radiation intensity allowed on thermally unprotected adjoining equipment	-
4.	12.5	Minimum energy to ignite with a flame; melts plastic tubing	1% lethality in 1 min.
5.	4.5	-	Causes pain if duration is longer than 20 sec, however blistering is un-likely (First degree burns)
6.	1.6	-	Causes no discomfort on long exposures

Source: Techniques for Assessing Industrial Hazards by World Bank

The effect of incident radiation intensity and exposure time on lethality is given in **Table- 7.6**.

TABLE-7.6
RADIATION EXPOSURE AND LETHALITY

Radiation Intensity (kW/m^2)	Exposure Time (seconds)	Lethality (%)	Degree of Burns
1.6	--	0	No Discomfort even after long exposure
4.5	20	0	1st
4.5	50	0	1st
8.0	20	0	1st
8.0	50	<1	3rd
8.0	60	<1	3rd
12.0	20	<1	2nd
12.0	50	8	3rd
12.5	--	1	--
25.0	--	50	--
37.5	--	100	--

The Diesel is stored within the in-built storage tank so external storage is fuel is not necessary hence risk assessment has not been carried

7.2.4 Identification of Hazards, Assessment and their Management

The various hazards associated, apart from fuel storage with the plant process has been identified and has outlined in **Table-7.7.**

TABLE-7.7
HAZARD ANALYSIS FOR PROCESS IN STEEL PLANT

Sr. No.	Blocks/Areas	Hazards Identified
1	Induction furnace	Liquid metal
2	Switch-yard Control Room	Fire in cable galleries and Switch-gear/Control Room

7.2.5 Hazardous Events with Greatest Contribution to Fatality Risk

The hazardous event scenarios likely to make the greatest contribution to the risk of potential fatalities are summarized in **Table-7.8**. 'Onsite facility' refers to the operating site at AAP, whereas 'offsite facility' refers to transport and handling systems, which are away from the AAP operating site.

TABLE-7.8
HAZARDOUS EVENTS CONTRIBUTING TO ON-SITE FACILITY RISK

Hazardous Event	Risk Rank	Consequences of Interest
Onsite vehicle impact on personnel	3	Potential for single fatalities, onsite impact only
Entrapment/struck by Machinery	3	Potential for single fatalities, onsite impact only
Fall from heights	3	Potential for single fatalities, onsite impact only
Electrocution	3	Potential for single fatalities, onsite impact only
Storage stack collapse	3	Potential for single fatalities, onsite impact only

7.2.6 Risk Assessment Summary

The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:

- The industry is operating in SIPCOT Industrial complex with uninterrupted power supply & there is a petrol bunk within 3 km. There would not be necessity for bulk storage of Diesel hence the major impacts to community and environmental is less. Proper handling of fuel systems and machineries would reduce the probability; and

- The hazardous event scenarios and risks in general at this facility can be adequately managed to acceptable levels by performing the recommended safety studies as part of

detailed design, applying recommended control strategies and implementing a Safety Management System.

7.2.7 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector; and
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage; and
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

victims. This includes the search for the dead and injured and removal of debris and social care, the provision of temporary shelter to the homeless food, clothing and medical supplies, and the rapid re-establishment of essential services.

7.3.1 Objectives of Disaster Management Plan (DMP)

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it will be widely circulated and personnel training given through rehearsals/drills.
The Disaster Management Plan would reflect the probable, consequential severity of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on currently available and reliable information, incident data from internal and external sources and if necessary the reports of outside agencies. To tackle the consequences of a major emergency inside the factory or immediate vicinity of the factory, a planned emergency document is prepared, called the "Disaster Management Plan"

The objective of the Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area; and
- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the Emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

7.3.2 Specific Emergencies Anticipated

Fire consequences can be disastrous, since they involve huge quantities of fuel either stored or in dynamic inventory in pipelines or in nearby areas. Toxic releases can affect persons working around. Preliminary hazard Analysis has provided a basis for consequence estimation.

7.3.3 Emergency Organization

It is recommended to set up an Emergency Organization. A senior executive who has control over the affairs of the plant would be heading the Emergency Organization. He would be designated at Site Controller. Works Manager would be designated as the Incident Controller. In the case of stores, utilities, open areas, which are not under the control of the Production Heads, Senior Executive responsible for maintenance of utilities would be designated as Incident Controller. All the Incident Controllers would be reporting to the Site Controller.

Each Incident Controller, for himself, organizes a team responsible for controlling the incidence with the personnel under his control. Shift In-charge would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.

Emergency co-ordinators would be appointed who would undertake the responsibilities like fire fighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, Security In-charge, Personnel Department, Essential services personnel would be engaged. All these personnel would be designated as Key personnel.

In each shift, electrical supervisor, electricians and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/plant offices would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.3.3.1 Emergency Communication

Whoever notices an emergency situation such as fire, escalation of fire, leakage etc will inform his immediate superior and Emergency Control Center. A place nearer to the security office shall be identified as Emergency Control Center. The person on duty in the Emergency Control Center would appraise the Site Controller. Site Controller verifies the situation from the Incident Controller of that area or the Shift In-charge and takes a decision about an impending On Site Emergency. This would be communicated to all the Incident Controllers, Emergency Co-ordinators. Simultaneously, the emergency warning system would be activated on the instructions of the Site Controller.

7.3.4 Onsite Emergency Preparedness and Response for Accidents

7.3.4.1 Emergency Responsibilities

The responsibilities of the key personnel are appended below:

Site Controller:

On receiving information about emergency he would rush to Emergency Control Center (ECC) and take charge of ECC and the situation and;

- Assesses the magnitude of the situation on the advice of incident Controller and decides; Whether the affected area needs to be evacuated;
- Whether personnel who are at assembly points need to be evacuated;
- Declare Emergency and order for operation of emergency siren;
- Organizes announcement by public address system about location of emergency;
- Assesses which areas are likely to be affected, or need to be evacuated or need to be alerted;
- Maintains a continuous review of possible development and assesses the situation in consultation with Incident Controller and other Key Personnel as to whether shutting down the plant or any section of the plant is required and if evacuation of persons is required;
- Directs personnel for rescue, rehabilitation, transport, fire, brigade, medical and other designated mutual support systems locally available, for meeting emergencies;
- Controls evacuation of affected areas, if the situation is likely to go out of control or effects are likely to go beyond the premises of the factory, informs the District Emergency Authority, Police, Hospital and seeks their intervention and help;

- Informs the Inspector of Factories, Deputy Chief Inspector of Factories, TNPCB and other statutory authorities;
- Gives a public statement if necessary;
- Keeps record of chronological events and prepares an investigation report and preserve evidence; and
- On completion of On Site Emergency and restoration of normalcy, declares all clear and orders for all clear warning.

Incident Controller:

- Assembles the incident control team;
- Directs operations within the affected areas with the priorities for safety to personnel minimize damage to the plant, property and environment and minimize the loss of materials;
- Directs the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency;
- Ensure that key personnel help is sought;
- Provides advice and information to the Fire and Security Officer and the Local Fire Services as and when they arrive;
- Ensures that all non-essential workers/staff of the affected areas evacuated to the appropriate assembly points, and the areas are searched for casualties;
- Has regard to the need for preservation of evidence so as to facilitate any inquiry into the causes and circumstances, which caused or escalated the emergency;
- Co-ordinates with emergency services at the site;
- Provides tools and safety equipment to the team members;
- Keeps in touch with the team and advice them regarding the method of control to be used; and
- Keeps the Site Controller of Emergency informed of the progress being made.

Emergency Coordinator - Rescue, Fire Fighting:

- Helps the incident Controller in containment of the emergency;
- Ensures fire pumps are in operating conditions and instructs pump house operator to be ready for any emergency with standby arrangement;
- Guides the fire fighting crew i.e. firemen, trained plant personnel and security staff;
- Organizes shifting of the fire fighting facilities to the emergency site, if required;
- Takes guidance of the Incident Controller for fire fighting as well as assesses the requirements of outside help;
- Arranges to control the traffic at the gate and the incident area;
- Directs the security staff to the incident site to take part in the emergency operations under his guidance and supervision;
- Evacuates the people in the plant or in the nearby areas as advised by Site Controller;
- Searches for casualties and arranges proper aid for them;
- Assembles search and evacuation team;
- Arranges for safety equipment for the members of this team;
- Decides which paths the evacuated workers should follow; and
- Maintains law and order in the area, and if necessary seeks the help of police.

Emergency Coordinator-Medical, Mutual Aid, Rehabilitation, Transport and Communication:

- In the event of failure of electric supply and thereby internal telephone, sets up communication point and establishes contact with the ECC;
- Organizes medical treatment to the injured and if necessary will shift the injured to nearby hospitals;
- Mobilizes extra medical help from outside, if necessary;
- Keeps a list of qualified first aid providers of the factory and seek their assistance;
- Maintains first aid and medical emergency requirements;
- Makes sure that all safety equipment is made available to the emergency team;
- Assists Site Controller with necessary data and to coordinate the emergency activities;
- Assists Site Controller in updating emergency plan, organizing mock drills verification of inventory of emergency facilities and furnishing report to Site Controller;
- Maintains liaison with Civil Administration;
- Ensures availability of canteen facilities and maintenance of rehabilitation center;
- He will be in liaison with Site Controller/Incident Controller;
- Ensures transportation facility;
- Ensures availability of necessary cash for rescue/rehabilitation and emergency expenditure;
- Controls rehabilitation of affected areas on discontinuation of emergency; and
- Ensures availability of diesel/petrol for transport vehicles engaged in emergency operation.

Emergency Coordinator - Essential Services:

- He would assist Site Controller and Incident Controller;
- Maintains essential services like Diesel Generator, Water, Fire Water, Compressed Air/Instrument Air, power supply for lighting;
- He would plan alternate facilities in the event of power failure, to maintain essential services such as lighting, refrigeration plant etc;
- He would organize separate electrical connections for all utilities and emergency services so that in the event of emergency or fires, essential services and utilities are not affected.
- Gives necessary instructions regarding emergency electrical supply, isolation of certain sections etc. to shift in-charge and electricians; and
- Ensures availability of adequate quantities of protective equipment and other emergency materials, spares etc.

General Responsibilities of Employees during an Emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers if they are in-charge of process equipment should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

7.3.4.2 Emergency Facilities

Emergency Control Center (ECC):

For the time being, Office Block or a place nearer to the security office is identified as Emergency Control Center. It would have external Telephone, Fax, and Telex facility. All the Site Controller/ Incident Controller Officers, Senior Personnel would be located here. Also, it

would be an elevated place. The following information and equipment are to be provided at the Emergency Control Center (ECC).

- Intercom, telephone;
- P and T telephone;
- Safe contained breathing apparatus;
- Fire suit/gas tight goggles/gloves/helmets;
- Hand tools, wind direction/velocities indications;
- Public address megaphone, hand bell, telephone directories;
- (Internal P and T) factory layout, site plan;
- Emergency lamp/torch light/batteries;
- Plan indicating locations of hazard inventories, plant control room, sources of safety equipment, work road plan, assembly points, rescue location vulnerable zones, escape routes;
- Hazard chart;
- Emergency shut-down procedures;
- Nominal roll of employees;
- List of key personnel, list of essential employees, list of Emergency Co-ordinators;
- Duties of key personnel;
- Address with telephone numbers and key personnel, emergency coordinator, essential employees; and
- Important address and telephone numbers including Government agencies, neighbouring industries and sources of help, out side experts, chemical fact sheets population details around the factory.

Assembly Point:

Number of assembly points depending upon the plant location would be identified wherein employees who are not directly connected with the disaster management would be assembled for safety and rescue. Emergency breathing apparatus, minimum facilities like water etc. would be organized. In view of the size of plant, different locations are ear marked as assembly points. Depending upon the location of hazard, the assembly points are to be used.

Fire Fighting Facilities:

First Aid Fire fighting equipment suitable for emergency should be maintained in each section in the plant. This would be as per statutory requirements. However, fire hydrant line covering major areas would be laid. It would be maintained at 6- kg/cm^2 pressure. Fire alarms would be located in the bulk storage areas. Fire officer will be the commanding officer of fire fighting services.

Location of Wind Sock:

On the top of the Administration block and the top of each production blocks, windsocks shall be installed to indicate direction of wind for emergency escape.

Emergency Medical Facilities:

Stretchers, gas masks and general first aid materials for dealing with fire burns would be maintained in the medical center as well as in the emergency control room. Medical superintendent of the township will be the head of the causality services ward. Private medical practitioners help would be also are sought. Government hospital would be approached for emergency help.

Apart from plant first aid facilities, external facilities would be augmented. Names of Medical Personnel, Medical facilities in the area would be prepared and updated. Necessary specific medicines for emergency treatment of Burns for Patients and for those affected by toxicity would be maintained. Breathing apparatus and other emergency medical equipment would be provided and maintained. The help of near by industrial management in this regard would be taken on mutual support basis.

Ambulance:

An ambulance with driver availability in all the shifts and an emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift, first aid personnel would be available.

7.3.4.3 Emergency Actions

Emergency Warning

Communication of emergency would be made familiar to the personnel inside the plant and people outside. An emergency warning system shall be established.

Emergency Shutdown

There are number of facilities which can be provided to help deal with hazardous conditions, when a tank is on fire. The suggested arrangements are:

1. Stop the production;
2. Dilute contents;
3. Remove heat;
4. Deluge with water; and
5. Transfer contents.

Whether a given method is appropriate depends on the particular case. Cessation of agitation may be the best action in some instances but not in others. Stopping of the feed may require the provision of by pass arrangements.

Methods of removing additional heat include removal through the normal cooling arrangements or use of an emergency cooling system. Cooling facilities, which use vaporing liquid, may be particularly effective, since a large increase in vaporization can be obtained by dropping pressure.

Evacuation of Personnel:

There could be more number of persons in the storage area and other areas in the vicinity. The area would have adequate number of exits and staircases. In the event of an emergency, unconnected personnel have to escape to assembly point. Operators have to take emergency shutdown procedure and escape. Time Office maintains a copy of deployment of employees in each shift, at ECC. If necessary, persons can be evacuated by rescue teams.

All Clear Signal:

Also, at the end of an emergency, after discussing with Incident Controllers and Emergency Co-ordinators, the Site Controller orders an all clear signal. When it becomes essential, the Site Controller communicates to the District Emergency Authority, Police, and Fire service personnel regarding help required or development of the situation into an Off-Site Emergency.

7.3.4.4 General

Employee Information:

During an emergency, employees would be warned by raising siren in specific pattern. Employees would be given training of escape routes, taking shelter, protecting from toxic effects. Employees would be provided with information related to fire hazards, antidotes and first aid measures. Those who would be designated as key personnel and essential employees should be given training to emergency response.
Public Information and Warning:

The industrial disaster effects related to this plant may mostly be confined to the plant area. The detailed risk analysis has indicated that the pool fire effects would not be felt outside. However, as an abundant precaution, the information related to chemicals in use would be furnished to District Emergency Authority for necessary dissemination to general public and for any use during an off site emergency. Factories of this size and nature are in existence in our state since long time.

Co-ordination with Local Authorities:

Keeping in view of the nature of emergency, two levels of coordination are proposed. In the case of an On Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency, local authorities help should be sought.

In the event of an emergency developing into an off site emergency, local authority and District emergency Authority (normally the Collector) would be appraised and under his supervision, the Off Site Disaster Management Plan would be exercised. For this purpose, the facilities that are available locally, i.e. medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered. Necessary rehearsals and training in the form of mock drills should be organized.

Mutual Aid:

Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc should be sought from the neighbouring industrial management.

Mock Drills:

Emergency preparedness is an important step in planning of Industrial Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel should be trained in the operations. Co-ordination meeting with the line Department officials for preparedness and implementation, viability and conduct of Mock Drill/ training should be conducted along with Divisional or Taluk level of Tiruvallur District.

Important Information:

Once the Plant goes into stream, important information such as names and addresses of key personnel, essential employees, medical personnel, outside the plant, transporters address, and address of those connected with Off Site Emergency such as Police, Local Authorities, Fire Services, and District Emergency Authority should be prepared and maintained.

7.3.5 Off-Site Emergency Preparedness Plan

7.3.5.1 Introduction

Off-site emergency plan follows the on-site emergency plan. When the consequences of an emergency situation go beyond the plant boundaries, it becomes an off-site emergency. Off-site emergency is essentially the responsibility of the public administration. However, the factory management will provide the public administration with the technical information relating to the nature, quantum and probable consequences on the neighbouring population. The off-site plan in detail will be based on those events, which are most likely to occur, but other less likely events, which have severe consequence, will also be considered. Incidents which have very severe consequences yet have a small probability of occurrence should also be considered during the preparation of the plan. However, the key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan.

The roles of the various parties who will be involved in the implementation of an off-site plan are described below. Depending on local arrangements, the responsibility for the off-site plan should be either rest with the works management or, with the local authority. Either way, the plan should identify an emergency co-ordinating officer, who would take the overall command of the off-site activities. As with the on-site plan, an emergency control center should be setup within which the emergency co-ordinating officer can operate.

An early decision will be required in many cases on the advice to be given to people living "within range" of the accident - in particular whether they should be evacuated or told to go indoors. In the latter case, the decision can regularly be reviewed in the event of an escalation of the incident. Consideration of evacuation may include the following factors:

a. In the case of a major fire but without explosion risk (e.g. an oil storage tank), only houses close to the fire likely need to be evacuated, although a severe smoke hazard may require this to be reviewed periodically;

b. If a fire is escalating and in turn threatening a store of hazardous material, it might be necessary to evacuate people nearby, but only if there is time; if insufficient time exists, people should be advised to stay indoors and shield them from the fire.

This latter case particularly applies if the installation at risk could produce a fireball with very severe thermal radiation effects; and

c. For release or potential release of toxic materials, limited evacuation may be appropriate down wind, if there is time. The decision would depend partly on the type of housing "at risk". Conventional housing of solid construction with windows closed offers substantial protection from the effects of a toxic cloud, while shanty house, which exist close to factories, offer little or no protection.

The major difference between releases of toxic and flammable materials is that toxic clouds are generally hazardous down to much lower concentrations and therefore hazardous over greater distances. Also, a toxic cloud drifting at, say 300 m per minute covers a large area of land very quickly.

Any consideration of evacuation should take this into account. Although the plan will have sufficient flexibility built in to cover the consequences of the range of accidents identified for the on-site plan, it will cover in some detail the handling of the emergency to a particular distance from each major hazard works.

7.3.5.2 Aspects Proposed to be considered in the Off-Site Emergency Plan

The main aspects, which should be included in the emergency plan, are:

- **Organization**

Details of command structure, warning systems, implementation procedures, emergency control centers. Names and appointments of incident controller, site main controller, their deputies and other key personnel.

- **Communications**

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

- **Specialized knowledge**

Details of specialist bodies, firms and people upon whom it may be necessary to call e.g. those with specialized chemical knowledge and laboratories.

- **Voluntary organizations**

Details of organizers, telephone numbers, resources etc.

- **Chemical information**

Details of the hazardous substances stored or procedure on each site and a summary of the risks associated with them.

- **Meteorological information**

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

- **Humanitarian arrangements**

Transport, evacuation centers, emergency feeding treatment of injured, first aid, ambulances and temporary mortuaries.

- **Public information**

Arrangements for dealing with the media press office and informing relatives, etc.

- **Assessment of emergency plan**

Arrangements for: (a) Collecting information on the causes of the emergency; (b) Reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.3.5.3 Role of the Emergency Co-ordinating Officer

The various emergency services should be co-ordinated by an Emergency Co-ordinating Officer (ECO), who will be designated by the district collector. The ECO should liaison closely with the site main controller.

The Emergency Operation Center (EOC) functioning at each Taluk office Collectorate, round the clock. Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control should be passed to a senior local authority administrator or even an administrator appointed by the central or state government.

7.3.5.4 Role of the Local Authority

The duty to prepare the off-site plan lies with the local authorities. The Emergency Planning Officer (EPO) appointed should carry out his duty in preparing for a whole range of different emergencies within the local authority area. The EPO should liaison with the works, to obtain the information to provide the basis for the plan. This liaison should ensure that the plan is continually kept upto date.

It will be the responsibility of the EPO to ensure that all those organizations, which will be involved in off site handling of the emergency situation, know of their role and are able to accept it by having for example, sufficient staff and appropriate equipment to cover their particular responsibilities. Rehearsals for off-site plans should be organized by the EPO.

7.3.5.5 Role of Police

Formal duties of the police during an emergency include protecting life and property and controlling traffic movements. Their functions should include controlling bystanders, evacuating the public, identifying the dead and dealing with casualties, and informing relatives of death or injury.

7.3.5.6 Role of Fire Authorities

The control of a fire should be normally the responsibility of the senior fire brigade officer who would take over the handling of the fire from the site incident controller on arrival at the site. The senior fire brigade officer should also have a similar responsibility for other events, such as explosions and toxic release.

Fire authorities in the region should be appraised about the location of all stores of flammable materials, water and foam supply points, and fire-fighting equipment. They should be involved in on-site emergency rehearsals both as participants, and on occasion, as observers of exercises involving only site personnel.

7.3.5.7 Role of Health Authorities

Health authorities, including doctors, surgeons, hospitals, ambulances, and so on, should have a vital part to play following a major accident, and they should form an integral part of the emergency plan. For major fires, injuries should be the result of the effects of thermal radiation to a varying degree, and the knowledge and experience to handle this in all but extreme cases may be generally available in most hospitals. For major toxic releases, the effects vary according to the chemical in question, and the health authorities should be apprised about the likely toxic releases from the plant, which will enable them in dealing with the aftermath of a toxic release with treatment appropriate to such casualties. Major off-site incidents are likely to require medical equipment and facilities additional to those available locally, and a medical "mutual aid" scheme should exist to enable the assistance of neighbouring authorities to be obtained in the event of an emergency.

7.3.5.8 Role of Government Safety Authority

This will be the factory inspectorate available in the region. Inspectors are likely to satisfy themselves that the organization responsible for producing the off-site plan has made adequate arrangements for handling emergencies of all types including major emergencies. They may wish to see well-documented procedures and evidence of exercise undertaken to test the plan.

In the event of an accident, local arrangements regarding the role of the factory inspector will apply. These may vary from keeping a watching brief to a close involvement in advising on operations in case involvement in advising on operations. In cases where toxic gases may have been released, the factory inspectorate may be the only external agency with equipment and resources to carry out tests.

7.4 Occupational Health and Safety

Large industries, in general where numerous activities are involved during construction, erection, testing, commissioning, operation and maintenance, materials and machines are the basic inputs. Along with the boons, the industrialization generally brings several problems like occupational health and safety.

The industrial planner therefore has to properly plan and take the steps to minimize the impacts of industrialization and to ensure appropriate occupational health, safety including fire plans. All these activities again may be classified under construction and erection & operation and maintenance. The proposed safety plan is given below:

7.4.1 Occupational Health

Occupational health needs attention both during construction and erection & operation and maintenance phases. However, the problem varies both in magnitude and variety in the above phases.

- ***Construction and Erection***

The occupational health problems envisaged at this stage can mainly be due to the constructional accident and noise. To overcome these hazards, in addition to arrangements to reduce it within TLV's (Threshold Limit Values), personal protective equipment shall be supplied to workers.

- ***Operation and Maintenances***

The problem of occupational health in the operation and maintenance phase is due to noise hearing losses. Suitable personnel protective equipment shall be given to the employees. The working personnel shall be given the following appropriate personnel protective equipment.

1. Industrial Safety Helmet;
2. Crash Helmet;
3. Face shield with replacement of acrylic vision;
4. Welder's equipment for eyes and face protection;
5. Ear muffs;
6. Safety belt;
7. Leather Hand Gloves;
8. Industrial Safety Shoes with steel toe;
9. Special UV and infra-red glasses; and
10. Eye protection with side shields.

Full Fledged hospital facilities shall be made available round the clock for attending emergencies arising out of accidents, if any. All working personnel shall be medically examined once in a month and at the end of his term of employment.

7.4.2 Safety Plan

Safety of both men and material during the erection and operation phases is of concern. The preparedness of an industry for the occurrence of possible disasters is known as emergency plan.

The disaster in the proposed modernization plant is possible due to the blast furnace, material handling, leakage of fuel/oil, collapse of structures and fire/explosion etc. Keeping in view the safety requirement during, operation and maintenances phases, the proposed modernizationplant shall formulate safety policy with the following regulations;

- To allocate sufficient resources to maintain safe and healthy condition of working environment.
- To take steps to ensure that all known safety factors are taken into account in the design, construction, operation and maintenance of plants, machinery and equipment.
- To ensure that adequate safety instructions are given to all employees.

- To provide wherever necessary protective equipment, safety appliances and clothing and to ensure their proper use.
- To inform employees about material, equipment or processes used in their work, which are known to be potentially hazardous to health or safety.
- To keep all operations and methods of work under regular review for making necessary changes from the point of view of safety in the light of experiences and up to date knowledge.
- To provide appropriate facilities for first aid and prompt treatment of injuries and illnesses at work.
- To provide appropriate instruction, training, retraining and supervision to employees in health and safety, first aid and to ensure that adequate publicity is given to these matters.
- To ensure proper implementation of fire prevention methods and an appropriate fire fighting service together with training facilities for personnel involved in this service.
- To publish/notify regulation, instructions and notices in the common language of employees.

7.4.3 Safety Organisation

Construction and Erection Phase

A Qualified and experienced safety officer shall be appointed. The responsibilities of the safety officers include identification of the hazardous conditions and unsafe acts of workers and advice on corrective actions, conduct safety audit, organize training programs and provide professional expert advice on various issues related to occupational safety and health.

Operation and Maintenance Phase

When the construction is completed the positing of safety officers shall be in accordance with the requirement of Factories Act and their duties and responsibilities shall be as defined thereof.

7.4.4 Safety Circle

In order to fully develop the capabilities of the employees in identification of hazardous processes and improving safety and health, safety circles would be constituted in each area of the work. The circle would consist of 5-6 employees from that area. The circle normally shall meet for about an hour every week.

7.4.5 Safety Training

A full-fledged training center shall be set up. Safety training shall be provided by the safety officers with the assistance of faculty members called from Corporate Center, Professional Safety Institutions and Universities. To create safety awareness, safety films shall be shown to workers and leaflets etc., can be distributed.

Some precautions and remedial measures proposed to be adopted to prevent fires are:

- Spread of fire in horizontal direction would be checked by providing fire stops for cable shafts;

- Reliable and dependable type of fire detection system with proper zoning and interlocks for alarm are effective protection methods for conveyor galleries;
- Housekeeping of high standard helps in eliminating the cause of fire and regular fire watching system strengthens fire prevention and fire fighting; and
- Proper fire watching by all concerned would be ensured.

7.4.6 Health and Safety Monitoring Plan

All the potential occupational hazardous work places such as furnace melting area, material handling, loading and unloading area shall be monitored regularly. The health of employees working in these areas shall be monitored once in a month for early detection of any ailment.

Though effective measures are taken to combat pollution in ambient conditions, occupational health hazards are not overlooked. Project will provide well organized occupational health services to all its employees by taking responsibility for establishment and maintenance of safe and healthy working environment and assessment of the physical and mental capabilities to turn out specific workloads.

7.4.7 Medical Surveillance

The industry will have the medical center for all the employees. All the employees will be examined periodically by the standard qualified doctors once in a month to determine the health status of the workers in respect of occupational health hazard to which they are exposed.

- Hazardous area wise list will be prepared by the medical officers to perform the specific test for the working employees; and
- No person will be signed up to operate the crane, locomotive or work-lift or give signals unless his eye sight and color vision is properly examined by the concern ophthalmologist.

7.4.8 Industrial Medical Center Responsibilities

- Surveillance of workers health in relation to work;
- Surveillance of working environments;
- Identification and evaluation of environmental factors which may affect the worker's health;
- Assessment of conditions of occupational health of employees; and
- Observance of safety norms and reduce/eliminate exposure to hazardous environments.

7.4.9 Employees training Programme

The industry will provide training program to the working employees. The training programme will includes the hazardous operation, usage of the nose mask and earplugs, Engineering Act and working process in connection with their jobs roles.

7.4.10 List of Test for Working Employees

List of tests that are being conducted for every month to the workers are as:

- X-ray Chest view;
- Electro Cardiogram (ECG);
- Eye fitness;
- Spirometry Test; and
- Audiogram Test.

7.4.11 Medical Examination

The KSIL will take up monitoring activities periodically to assess hazards due to gases, dusts, vibrations, radiations etc. The following medical check-up/examination will be done:

- Pre-employment medical check-up for the employees;
- X-ray Chest test including bone scan, CT ratio;
- ECG to find the activity of the heart related problems;
- Eye Fitness (near and far as well as colour vision);
- Spirometry to measure the lung function; and
- Audiogram Test to find the deafness.

7.5 Social Impact Assessment

The impact of the proposed modernization activity will begin with the starting up of the plant roof modernization activities at the site. The proposed modernization activity will provide employment to considerable number of skilled, semi-skilled and unskilled construction labourers. In normal circumstances, the local people will be given preference for the unskilled activities, as there are many construction labourers in the vicinity of the project and are expected to be available with normal wages. Presently, a large number of skilled and semi-skilled technicians and labourers who emigrated from various parts of India have been engaged in many companies on wages/contract basis. Similar technicians and skilled workers will either be brought or sourced from the local area for erection of the proposed modernization activity.

The peak labour force required during the construction period will be sourced from the local area. Provision of wage employment to the local populace during construction period of the project will benefit the local area to some extent. This will enhance the income levels of the construction labourers and lead to their socio-economic wellbeing during the construction phase of the proposed modernization activity, which will be positive impact due to the project.

In addition, the real estate in the region will get a boon and the land prices are likely to shoot-up as part of speculation. Normally, the construction activity will benefit the local populace in a number of ways, which include the requirement of skilled, semi-skilled and unskilled construction labourers, tertiary sector employment and provision of goods and services for daily needs including transport.
In line with the above, some more recommendations are given below:

- Local people will be given preference;

- All the guidelines under the Labour Act and Safety Rules as specified under Factories Act, 1948 will be implemented during the construction work to avoid any accidents; and

- The contractor will be instructed to provide cooking fuel to the workers to prevent damage to trees. This will be part of the contractual agreement between the project proponent and the contractor engaged for construction.

7.6 Rehabilitation & Resettlement Action Plans

The proposed expansion activity is going to implemented in the industry located in SIPCOT Industrial complex hence there is no Rehabilitation & Resettlement issues

7.7 Traffic Management systems

This data illustrates the study of existing & proposed traffic levels at selected junctions from the plant site. The location of the existing plant is given below

7.7.1 Location details

TABLE-7.9
DETAILS OF THE PLANT LOCATION

Sr. No.	Particulars	Details		
1.	Site co-ordinates	**Points**	**Latitude**	**Longitude**
		A	13°25.079′ N	80°07.154′ E
		B	13°25.069′ N	80°07.235′ E
		C	13°24.971′ N	80°07.229′ E
		D	13°24.972′ N	80°07.137′ E
2.	Elevation above MSL	19 AMSL		
3.	Nearest Highway	NH-5 (0.6 km, West)		
4.	Nearest Railway Station	Gummidipoondi R.S. (0.5 km, SSE)		
5.	Nearest Airport	Chennai Intl. Airport (45.0 km, South)		
6.	Seismicity Zone	Zone-III as per IS: 1893 (Part-1) 2002		

7.7.2 Data generation

The vehicles passing through the road (in both ways) were counted separately for 24 hours at one selected location from 0600 hrs to 0600 hrs next day continuously. Category-wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories.

7.7.2.1 Road Connectivity to the project

The project is located at 0.6 km distance from NH-5 which is Chennai – Guntur Highway. The traffic generated by the proposed project expansion will added to the existing traffic. Though pressure develops, the connecting road is sufficient to handle the pressure.

7.7.2.2 Categorization of Traffic

The engine driven vehicles were categorized into various heads viz. Trucks/Bus, Light Carriage Vehicles (LCV), Car/Jeep, Multi Axle Vehicles, Two/Three Wheelers and Cycles/others.

7.7.2.3 Sampling Locations

The one location is represented in **Table-7.10**

TABLE-7.10
DETAILS OF THE TRAFFIC MONITORING LOCATION

Location Code	Location Details
T-1	Chennai- Guntur Highway



FIGURE-7.1
TRAFFIC MONITORING LOCATIONS

TABLE-7.11
ROAD GEOMETRIC SCENARIO

Road	Road width (m)	Lanes	Surface Condition	Street lights	Road Markings	Road signs	Remarks
Chennai – Guntur Hwy	14	4	Good	A	A	A	Divided road with street lights

TABLE-7.12
IRC GUIDELINES

No of traffic lanes and widths	Traffic flow	Capacity in PCU's per hour for various traffic conditions		
		Roads with no frontage access, no standing vehicles, very little cross traffic	Roads with frontage access but no standing vehicles and high capacity intersections	Roads with free frontage access, parked vehicles and heavy cross traffic
2 - lane (7 – 7.5 m)	One way Two way	2400 1500	1500 1200	1200 750
3 – lane (10.5 m)	One way	3600	2500	2000
4 - lane (14 m)	One way Two way	4800 4000	3000 2500	2400 2000
6 – lane (21 m)	One way* Two way	3600 6000	2500 4200	2200 3600
*denotes for three lanes in predominant direction of flow				

TABLE-7.13
IRC – LOS GUIDELINES

V/C	LOS	Performance
0.0 - 0.2	A	Excellent
0.2 - 0.4	B	Very Good
0.4 - 0.6	C	Good / Average / Fair
0.6 - 0.8	D	Poor
0.8 - 1.0	E	Very Poor
1.0 & above	F	Worst

V= Volume in PCUs/hr & C= Capacity in PCUs/ hr
** Note: Capacity as per IRC Guidelines*

The hourly vehicular traffic densities for continuous normal day at each location observed during the study period and the same are presented in **Table-7.14, 7.15 & 7.16**.

Location Number : T-1
Details of Location : Chennai – Guntur Hwy (NH-5)

TABLE-7.14
TRAFFIC DENSITIES

Time	Two Wheeler	Auto Rickshaw	Car/Utility	Buses& Other heavy Vehicles	Total Vehicles	Total PCUS
09.00 AM to 10.00 AM	391	41	428	116	976	1012.5
10.00 AM to 11.00 AM	352	22	365	102	841	869.0
11.00 AM to 12.00 PM	211	39	296	97	643	731.5
12.00 PM to 01.00 PM	316	12	290	65	683	655.0
01.00 PM to 02.00 PM	441	32	178	88	739	694.5
02.00 PM to 03.00 PM	274	19	198	89	580	621.0
03.00 PM to 04.00 PM	295	23	165	97	580	626.5
04.00 PM to 05.00 PM	433	26	278	106	843	838.5
05.00 PM to 06.00 PM	529	55	512	85	1181	1086.5
06.00 PM to 07.00 PM	622	49	542	93	1306	1181.0
07.00 PM to 08.00 PM	604	56	429	96	1185	1075.0
08.00 PM to 09.00 PM	457	31	398	121	1007	1020.5
09.00 PM to 10.00 PM	232	18	391	114	755	867.0
10.00 PM to 11.00 PM	120	11	421	45	597	627.0
11.00 PM to 12.00 AM	131	6	162	19	318	290.5
12.00 AM to 01.00 AM	89	0	29	12	130	109.5
01.00 AM to 02.00 AM	86	5	41	6	138	107.0
02.00 AM to 03.00 AM	42	4	18	3	67	52.0
03.00 AM to 04.00 AM	69	3	11	9	92	75.5
04.00 AM to 05.00 AM	146	18	16	9	189	134.0
05.00 AM to 06.00 AM	180	21	21	12	234	168.0
06.00 AM to 07.00 AM	140	15	252	42	449	463.0
07.00 AM to 08.00 AM	245	33	285	68	631	644.5
08.00 AM to 09.00 AM	396	42	527	124	1089	1139.0
Total	**6801**	**581**	**6253**	**1618**	**15253**	**15089**

TABLE-7.15
EXISTING TRAFFIC SCENARIO

Road	V	C*	Existing V/C Ratio	LOS
Chennai – Guntur Hwy (NH-5)	629	4000	0.15	A

V= Volume in PCUs/hr & C= Capacity in PCUs/ hr
** Note: Capacity as per IRC Guidelines*

7.7.3 Traffic flow Assessment

The total traffic generated from the proposed modernization is 7 PCUs (629+7=636). The transportation in the proposed modernization doesn't not create any significant impacts to the environment. There will be a frequent movement of trucks in the plant premise for the transportation of raw material and products but after the proposed activities only a small increase in truck numbers which would not cause a significant impact.

The vehicular movement discharges SO_2, NO_x and particulate emissions due to combustion engines. The emission from the vehicular movements can be controlled by good management practices of the vehicles.

TABLE-7.16
TRAFFIC SCENARIO – AFTER EXPANSION

Road	V	C*	Modified V/C Ratio	LOS
Chennai – Guntur Hwy (NH-5)	629+7=636	4000	0.16	A

V= Volume in PCUs/hr & C= Capacity in PCUs/ hr
** Note: Capacity as per IRC Guidelines*

After the proposed expansion the traffic generated due to the industrial activity would be 636 PCU. On combining with the existing traffic condition, the V/C ratio was found to be 0.16 and Level of Service is Excellent.

7.7.4 Conclusion

The existing level of service (LOS) of the Chennai – Guntur Hwy (NH-5) is **'A'** which is excellent. After considering the transportation of trucks due to the proposed project expansion, meagre impact was envisaged. The level of service predicted to be **'A' (Excellent)** even after the proposed expansion.

7.8 Temperature Modelling

7.8.1. Background

Fossil fuels are long known for environmental impacts. Therefore, the searches for insignificant pollutant's emission of fuels have been a persistent effort in both transportation and industrial operations. Fossil fuel (coal) is being used as key energy source for heating, cooking, and electricity generation. However, due to environmental and technological challenges to the nation, and although the global warming emissions from its combustion are noteworthy, study further for the dynamic characteristics of stack exhausts due to the coal combustions and their influence on ambient environment is required to understand the level of effect of environmental quality and development of inline management practices.

Demand for steel and its importance to the country is found to be highly significant. Thermal convection of furnace stacks exhaust flue gases from the usage of coal as fuel in steel industries may be differed. Thus, estimation of heat transfer of chimney exhaust flue gas to ambient environment at various distances from the stack location is equally important to study along with pollution loads impact. The temperature forced convection or decay and distribution along the plume length will have potential impact at the surrounding receptors. Hence, the present work is aimed to investigate the exhaust gas temperature decay or increase for ambient environment at various distances/receptors form the stacks which are attached to induction/reheating furnaces.

The exchange of chimney exhaust gas heat to the ambient air depends on plume dispersion due to mixing depth, temperature of ambient air and wind fields (speed and direction) at surrounding environment. Such fluid (air) mechanisms are typically studied through Computation Fluid Dynamics (CFD) model simulations for a boundary of interest. CFD is a science that can be helpful for studying fluid flow, heat transfer, chemical reactions etc. by solving mathematical equations with the help of numerical analysis.

For the present study, predictions of steel industry exhaust gas flow and temperature at a distance from the stack location have been carried out using open source CFD software package (OpenFOAM) model for different meteorological scenarios. The results of the CFD simulations could reveal the exhaust gas temperature distribution over study region, evaluating the flue gas-stream temperature in different locations at a distance from source point, and estimating the potential incremental ambient temperature due to the thermal convection/radiation of exhaust gas of stacks.

7.8.2 Scope

- To ascertain the exhaust gas decay or increase at various distances and surrounding receptor locations from the induction and reheating furnace stacks of KSIL by using Computational Fluid Dynamics (CFD) model.
- Estimate the stacks exhaust gas thermal dispersion profiles in the study domain
- Evaluate the exhaust gas temperature profile in altitudes for different spatial distances and potential impact at receptor locations.

7.8.3 Methodology

The methodology provides brief description on the study domain of the project, delineates methodologies those have been applied for the modelling of temperature profiles of stacks exhaust gas at a distance from KSIL stacks location. Further, this chapter also illustrate the software tool and input data and boundary conditions which have been used in the software modelling.

7.8.4 Study Domain

The plant of KSIL is situated at the Plot no. B27, SIPCOT's Industrial Complex, Peddikuppam & Old Gummidipoondi Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu. The survey nos. involved in the land area are 275A/2B, 1B of Peddikuppam & 618/(1A, 1A pt, 1A2B pt, 1 B2A pt, 1 A3 pt), 621A/(1,2,3, 4A pt, 4B pt, 4 B1 pt, 4 B2 pt) and 625 part of Old Gummidipoondi Village. The proposed expansion will be carried out within the existing plant premises itself in an area of 3.015 ha.

7.8.5 Input data and Considered constraints for the CFD simulations

KSIL proposes to replace 2 reheating furnaces (stacks) in the existing plant with one new induction furnace (stack) in the proposed expansion. The location of existing and proposed stacks (after expansion) details are presented in **Table-7.17.** The technical specifications about existing and proposed stacks attached to furnace are presented in **Table-7.18** and **Table-7.19** respectively.

Chimney exit flue gas velocity profiles and respective thermal convection of gas to surrounding environment is depends on the ambient temperature and wind field conditions of study domain. In present modelling work, onsite temperature, wind speed and wind direction data have been used. Meteorological parameters Temperature and wind speed typically change the characteristics of temperature profiles of the stack exit gas. **Table-7.20**. CFD simulations were carried out for different scenarios/cases.

Thus, possible scenarios/cases based on the combinations exist between ambient

temperature and wind fields, and which need to be considered for CFD modelling are detailed in **Table-7.21.** Receptor areas which could get excess temperature impact due to the stacks exit flue gas have been identified **Table-7.22** illustrates the details of six receptors in the study domain from stack locations of the plant.

TABLE-7.17
STACK LOCATION DETAILS

Sr. No	Location of Stacks	Latitude	Longitude	Elevation
	Existing			
1	Reheating furnace – I Stack	13°25'02.00"N	80° 7'13.37"E	16m
2	Reheating furnace – II stack	13°24'58.76"N	80° 7'12.12"E	16m
3	Induction furnace – 7 T/ heat	13°25'02.23"N	80° 7'11.60"E	16 m
	After Expansion			
4	Induction furnace – 7 T / heat	13°25'02.23"N	80° 7'11.60"E	16m
5	Induction furnace - 12 T/ Heat	13°25'03.44"N	80° 7'11.26"E	15m

TABLE-7.18
STACK DETAILS-EXISTING

Stack Nos.	Existing			
	Stack – 1	**Stack - 2**	**Stack - 3**	**Stack – 4**
Material of Construction	M.S	M.S	M.S	M.S
Stack attached to	Reheating Furnace – I	Reheating Furnace - II	Induction Furnace (7 T/Heat)	DG Set 250 KVA
Stack height Above the ground level, in m	32.0	32.0	32.0	6.0
Inside dimensions of the stack at top, m	0.60	0.60	0.60	0.20
Gas quantity – m^3/hr	19,152	19,152	20,664	2,376
Exit velocity of the gas, m/s	25	25	25	25
Flue gas temperature, °C	120	120	90	65
Sulphur content (% w/w)	0.85	0.85	0.055	0.1
Pollution control measures	Wet scrubber with stack	Cyclone with Wet scrubber & stack	Wet scrubber with stack	Acoustics enclosures with stack
Emission rate g/s				
PM	0.27	0.27	0.29	0.03
SO_2	2.23	2.23	1.29	0.04
NO_x	0.27	0.27	0.29	0.03

Note:
For coal & scrap, sulphur content of 0.85% & 0.055 % has been considered

TABLE-7.19
STACK DETAILS-AFTER EXPANSION

Stack Nos.	After Expansion			
	Stack – 1	Stack - 2	Stack – 3	Stack-4
Material of Construction	M.S	M.S	M.S	M.S
Stack attached to	Induction Furnace (7 T/Heat)	Induction furnace (12 T/Heat)	DG Set 250 KVA	DG Set 500 KVA
Stack height Above the ground level, m	32.0	32	6.0	9.0
Inside dimensions of the stack at top, m	0.60	0.60	0.20	0.25
Gas quantity – m^3/hr	20,664	20,160	2,376	3,735
Exit velocity of the gas, m/s	25	25	25	25
Flue gas temperature, °C	90	100	65	85
Sulphur content (% w/w)	0.055	0.055	0.1	0.1
Pollution control measures	Wet scrubber with stack	Wet scrubber with stack	Acoustics enclosures with stack	Acoustics enclosures with stack
Emission rate g/s				
PM	0.29	0.28	0.03	0.05
SO_2	1.29	1.41	0.04	0.71
NO_x	0.29	0.28	0.03	0.05

Note:
1. *For scrap, 0.055 % has been considered*
2. *In the proposed expansion, the billets are directly charged into the rolling section; hence reheating furnace will be removed.*

TABLE-7.20
METEOROLOGICAL DATA

Temperature in °C		Wind Speed (WS) in m/s		Predominant wind direction (blowing from)
Min	Max	Min	Max	East to West
17	34.4	1.6	15	East to West

TABLE-7.21
SCENARIOS/ CASES CONSIDERED FOR CFD MODELLING

Scenario-I : 3 Stacks from Existing Plant	
Case 1	Min Temp and Min WS
Case 2	Min Temp and Max WS
Case 3	Max Temp and Min WS
Case 4	Max Temp and Max WS
Scenario-II : 2 Stacks from Proposed Plant	
Case 1	Min Temp and Min WS
Case 2	Min Temp and Max WS
Case 3	Max Temp and Min WS
Case 4	Max Temp and Max WS

TABLE-7.22
RECEPTOR LOCATION CONSIDERED IN STUDY DOMAIN

Sr. No	Receptors	Latitude	Longitude	Distance	Direction in degrees
1	Kayalarmedu	13°25'36.19"N	80° 6'43.84"E	1.15	326.74 (NNW)
2	Peddikuppam	13°25'38.29"N	80° 7'23.74"E	0.91	14.59 (N)
3	Kottakarai	13°24'59.58"N	80° 7'50.21"E	1.17	97.42 (E)
4	Paleswaran kandigai	13°24'6.22"N	80° 7'14.71"E	1.63	352.01 (NNW)
5	Gummidipoondi	13°24'25.30"N	80° 6'36.89"E	1.30	41.91 (NE)
6	SIPCOT Industrial Estate - Phase-I	13°24'59.90"N	80° 6'48.17"E	0.58	272.6 (W)

7.8.6 Applicable software tool for study

Computational Fluid Dynamics (CFD) utilizes numerical methods and algorithms to solve equations governing fluid flow and heat and mass transfer. Some of the CFD codes in use are OpenFOAM, FLUENT, CFX, STAR CD, FIDAP, ADINA, CFD2000, PHOENICS and others. Using these, extensive work has been carried out on the various aspects of heat exchangers, thermal convection and conduction, and velocity profiles with primary focus on optimization through study of thermal performance, pressure drop, fouling and fluid mal-distribution.

CFD package OpenFOAM version 5.0 is used in this study. OpenFOAM is capable to generate the mesh and analyse a wide range of fluid flow problems including incompressible and compressible flows, laminar and turbulent flows, viscous and inviscid flows, Newtonian and non-Newtonian flows, single-phase and multi-phase flows, etc. In addition, both steady-state and transient analyses can be performed.

OpenFOAM package of CFD modeling provides solution to thermal and mass transfer problems. Conduction and convection can be easily implemented by adding energy equation. Various models are available to simulate more complex phenomena involving thermal radiation. Species transport can be modelled by solving equations governing convection, diffusion and reaction. OpenFOAM analyzes fluid flow problems by numerically solving governing equations. For all flows, conservation equations for mass and momentum are solved. For flows involving heat transfer, additional equation for energy conservation is solved. Turbulence models solve additional transport equations for turbulent variables. For flows involving mass transfer, a species conservation equation is solved. Reader can refer for detailed formulation and governing equations of software and description of modelling using various constraints from OpenFOAM User Guide Version 5.0.

The principal objective of CFD is to solve the Navier-Stokes equations and the equations that govern the transport of energy and concentrations. Depending on the nature of the problem the boundary conditions are used to replicate the real life scenario. Pre-processing involves defining the geometric bounds of the problem using CAD models, from where the volume occupied by the fluid is extracted and is divided into finite number of cells called mesh, where the solutions for variables such as pressure, velocity and temperature is obtained.

For the present study of multivariate dimensional outer boundary to stack's region, a grid independent arrangement was performed on 3 different meshes consisting of coarse, medium and fine, respectively, where predictions of thermal transfer of the exhaust gas temperature were used as criteria. The mesh is multi-block hexahedral structured, finer in the chimneys regions, and consists of mostly small region of polyhedral cells is present at the exit of the stack's section.

In the subsequent sections presented the detailed simulation methodology that has been applied using OpenFOAM CFD code for the simulation of temperature and velocity profiles of exit gas from 3 chimneys of existing plant, and 2 chimneys of proposed plant.

7.8.7 Modal set-up

7.8.7.1 Model scenarios

Steady state exit flue gas characteristics have been considered for modelling for the uniform dimensioned row of in-lined three chimneys for scenario-I and two chimneys for scenario-II in the plant with turbulence mixing conditions in the atmosphere. Wind component (direction and speed), and ambient temperature were the key atmospheric mixing parameters for the plume dispersion and transportation over the region. Thus, CFD simulations have been carried out to investigate the excess in ambient temperature for combinations of maximum and minimum wind speed and temperature scenarios for the present study.

7.8.7.2 Boundary Conditions

Specific boundary conditions must be provided to the model to begin with, including chimney outlet velocity and temperature, heat flux through the wall, characteristics of exit flue gas and enclosed outer boundary free fluid (air) flow environment.
Study domain of the simulation have been taken as free fluid (air) flow environment with the boundary limit of 10000 m (width) x 10000 m (length) x 132 m (height). Here, beyond the distances of the receptors of model boundary used with extra space for the simulations which will be enabled the ambiguity of OpenFOAM simulations. The flow regime is best characterized as a turbulent mixed convection. Therefore, realizable k-ε model is chosen because it is able to resolve the turbulence features. The CFD simulation is always carried out in the flow domain. The flow domain is shown in the **Figure-7.2**.

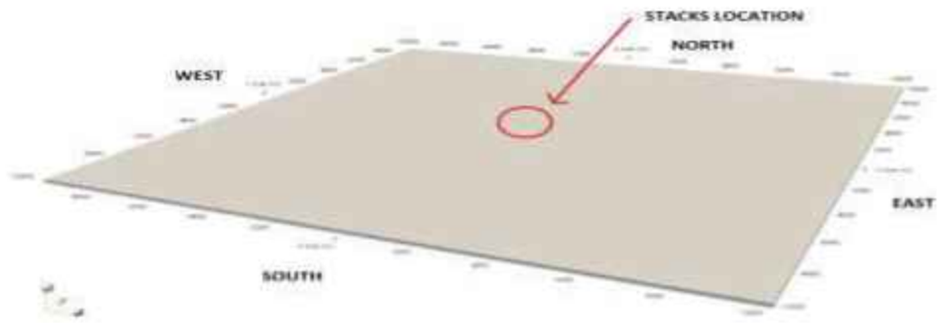


FIGURE-7.2
FLOW DOMAIN

7.8.7.3 Geometry

In order to solve the governing equations we need a control volume. Pre-processing includes, meshing the computational domain to solve the equations at discrete grid points. It is to be noted that the solution obtained from a CFD analysis is always dependent on the nature of grid that is laid. So, a very subtle technique is required to generate a worthy grid.

Geometry for the boundary of CFD simulation has been typically designed through "Salome" software. For the present OpenFOAM simulation works, 3-D reactor study domain has been designed for 2000 m (width) x 2000 m (length) x 132 m (height) region free fluid (air) flow environment. Stacks from scenario-1 and scenario-2 are located with designed characteristics in the reactor system for modelling that determine the actual distances from the receptor locations. The reactor geometry has been incorporated into OpenFOAM software for further meshing and simulation analysis.

7.8.7.4 Mesh

Appropriate meshing for modelling domain is the key step. CFD model approximates the equations of energy balance, mass balance, momentum balance in each cell of mesh area. Uniform meshing for the present modelling area will be inconsistent as existence of enormous model boundary (spatially: 2 km x 2km area) and fine stacks dimensions (32m height with 0.6 m diameter) contradict for convergent solutions. Hence, hexahedral meshes has been used for current model's ambient free environment for highest accuracy of solutions. Approximately 1.8 million hex-cells has been designed with minimum cell face area of 0.0017 m2 and maximum cell face area of 2500 m^2. Cell size has been increased gradually from stacks to the outer boundary to accommodate restricted mesh size and minimize computational requirements.

Figure-7.3 (a) and Figure-7.3 (b) presents the before and after magnification of mesh design for heat distribution and exchanger in free atmospheric field in the model study domain. Amalgamation between the stack's fine mesh and coarse mesh of the open boundary region were considered where the transition of thermal convection taking place over the modelling system. Details of the generated mesh are shown in the **Table-7.23.**

Stacks cylinders designed as realistic conditions with respect to specific distances and directions from receptor locations. Chimneys region is meshed separately by using fine O-grids, which adopts the meshing twice to the temperature affected region and integrating with hexahedral meshes for the model to improve the simulation performance in each cells.

7.8.8 Setup, Solution and Results

In order to save computational time and obtain the optimum convergent results, approximated iterations are to be input into the model based on the meshing and fluid characteristics. Then, the fluid pressure (free flow dispersion), heat flux and thermal convection values for each cell will be calculated via momentum, energy and mass balance equations of the model. In order to model hydrodynamically fully developed dispersion of flow, simulation is run with isothermal boundary conditions and included wind speeds at different altitude of atmosphere for ambient environment. The flue gas velocity profiles from the outlet of stacks and temperature dissolution and distribution profiles from the stack location to the receptors are generated as simulation outputs. Further, flue gas temperature

effected region for various heights (Z-direction) in atmosphere over different spatial distances (XY-plane) are resulted. Outputs of simulations runs i.e., temperature profiles and temperature at different distance from stack location are presented in the Chapter 3.

TABLE-7.23
MESH DETAILS

Sr. No	Parameter	Value
1	Maximum aspect ratio	3.79
2	Mesh non orthogonality	35.58
3	Number of hexahedrons	176822
4	Number of prisms	0
5	Number of polyhedrons	65887
6	Maximum Skewness	2.489

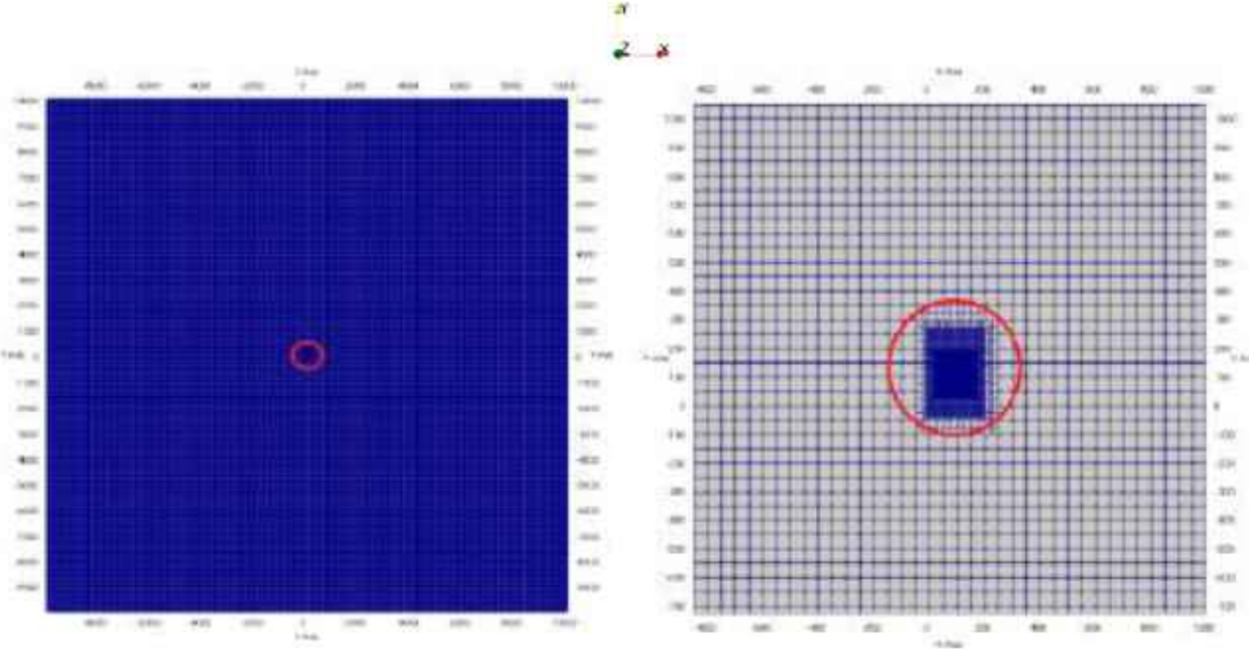


FIGURE-7.3
BEFORE MAGNIFICATION

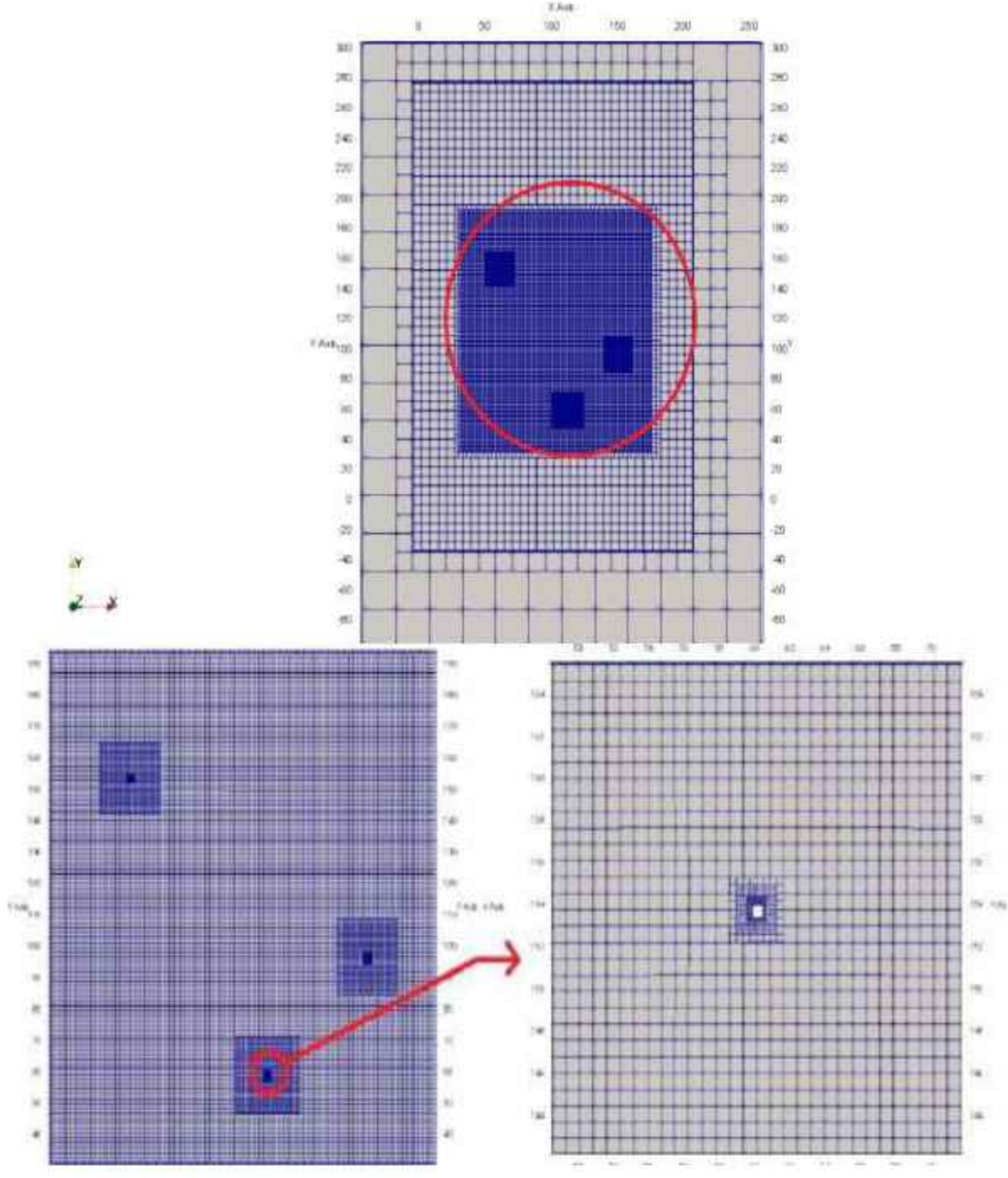


FIGURE-7.4
AFTER MAGNIFICATION

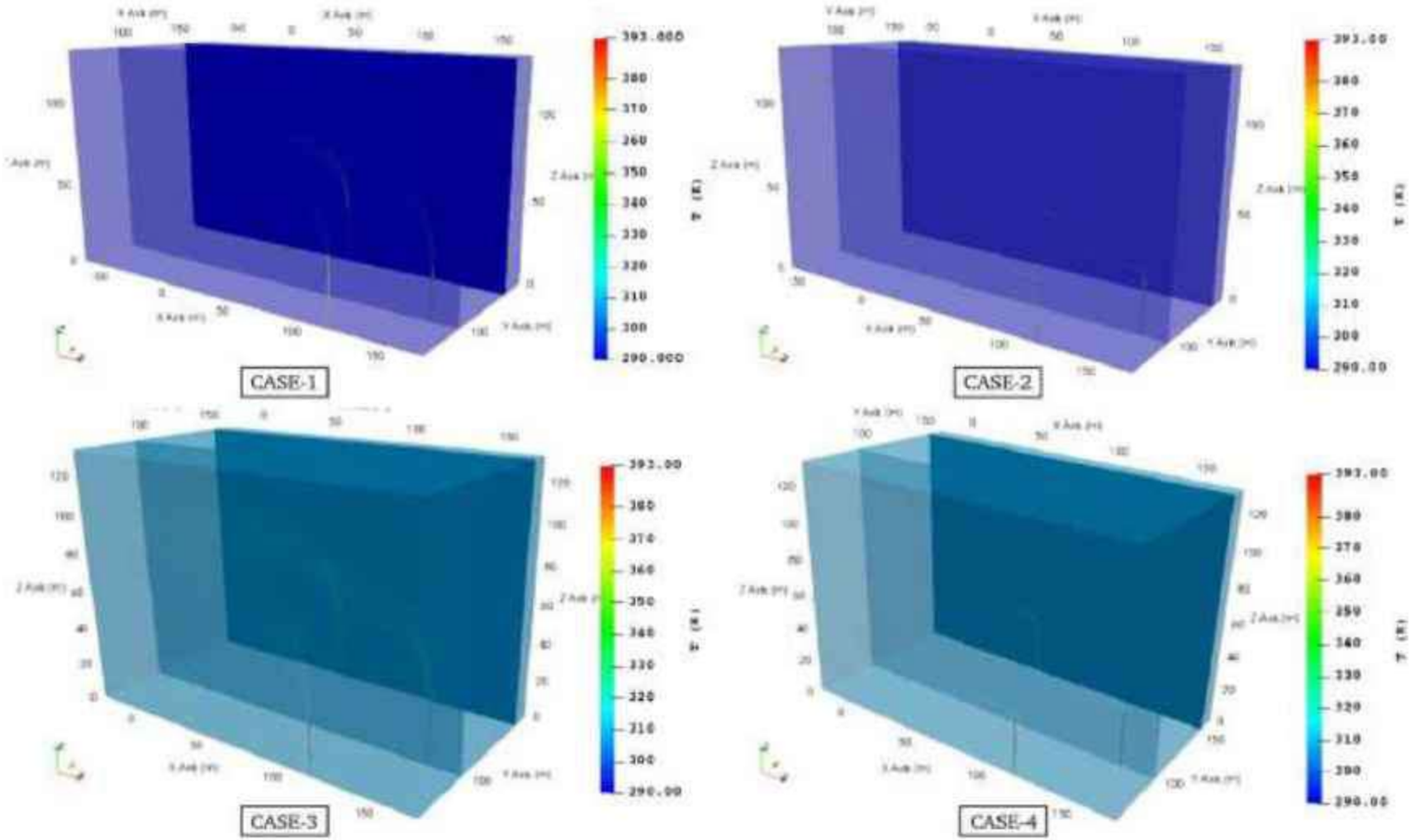


FIGURE-7.5
MAGNIFIED ISOMETRIC VIEW TEMPERATURE PROFILE BASED ON SCENARIO-1 CONDITIONS

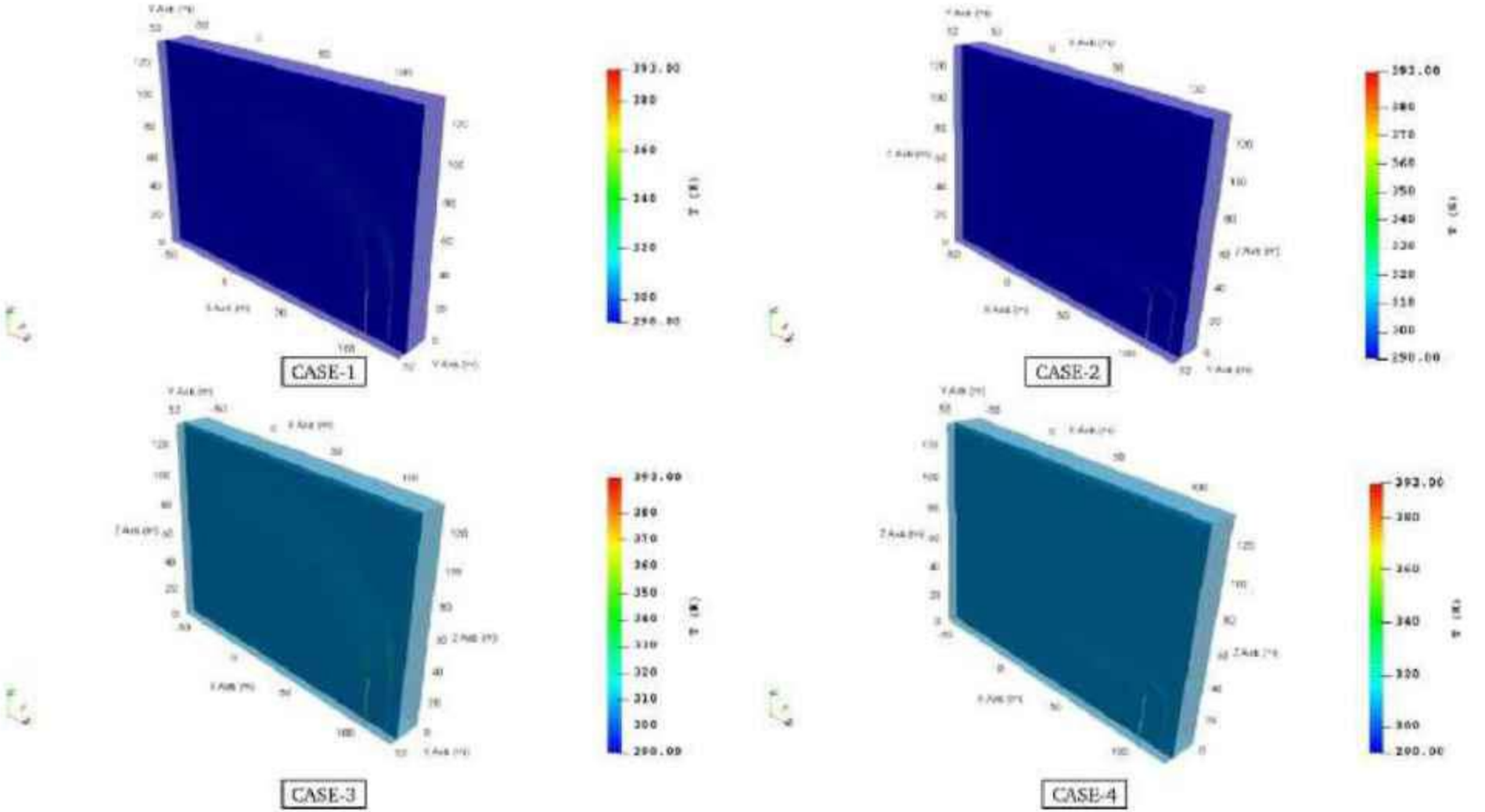


FIGURE-7.6
MAGNIFIED ISOMETRIC VIEW TEMPERATURE PROFILE BASED ON SCENARIO-2 CONDITIONS

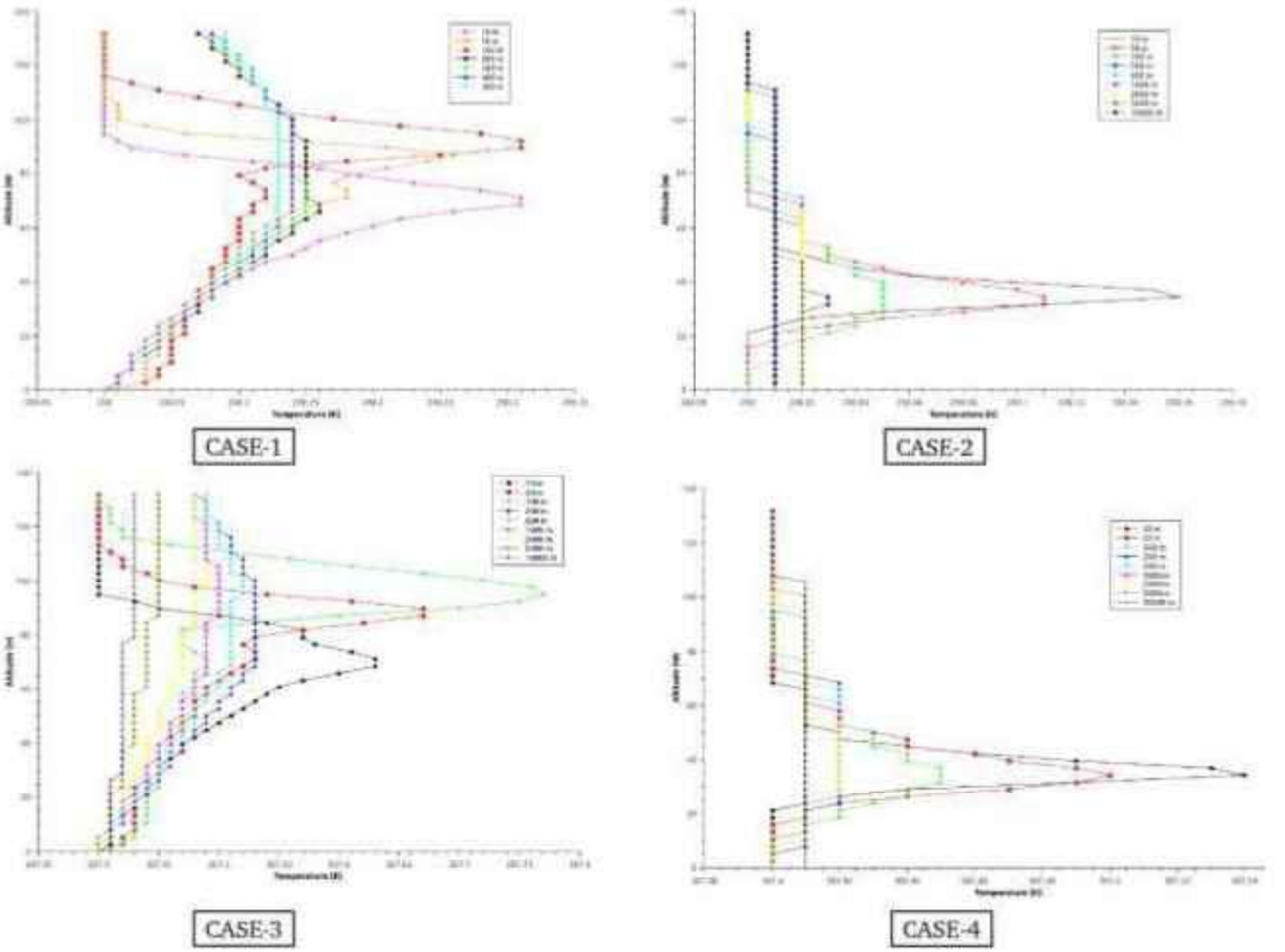


FIGURE-7.7
INCREMENTAL TEMPERATURE AT DIFFERENT ALTITUDES IN THE ATMOSPHERE FROM THE STACK LOCATION FOR SCENARIO-1

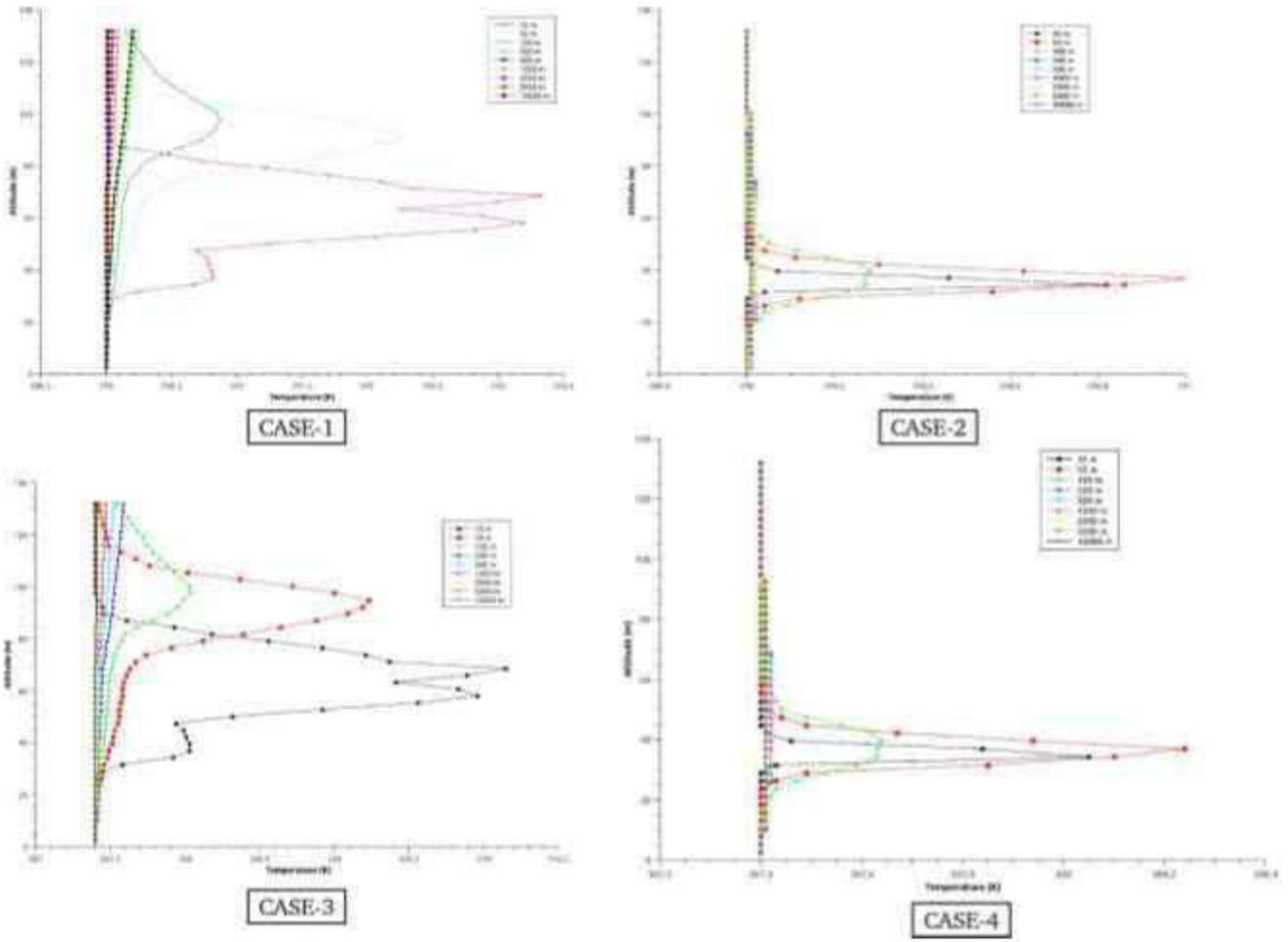


FIGURE-7.8
INCREMENTAL TEMPERATURE AT DIFFERENT ALTITUDES IN THE ATMOSPHEREFROM THE STACK LOCATION FOR SCENARIO-1

7.8.9 Summary and Conclusion

Thermal excess in the ambient environment due to stack exit flue gas from the combustion of fossil fuels (coal) in industrial operations may have potential impact. The significant impact on climate change and further propagation towards living ecosystem in the surrounding plant are required to be investigated. Open FOAM software simulation package of CFD has been used to estimate the excess in ambient temperature due to the proposed expansion of KSIL project. Studied the influence of stack exit gas temperature effect at different altitudes in the atmospheres, and various distances from the stack location.

Stack exit gas thermal convection and temperature profiles generation was done over a spatial coverage up to 10 km radius study domain in CFD simulations. Simulations have been run for maximum and minimum of ambient wind speeds and temperatures constraints for scenario-1 (i.e. 3-stacks from existing plant) and scenario-2 (i.e. 2-stacks from proposed expansion project) to estimate the impact of meteorology on plume transportation and dispersion, and subsequent exit gas thermal convection effect on ambient air temperature in the study region.

It was noticed from study results that the influence of flue gas temperature to the ambient environment has potential convection osmosis from the centroid line of exit plume. Highest excess of ambient temperature due to the exit gas was noticed till a spatial distance of 100m from the stack exit point and in the between altitudes of 20m to 120m from the surface level. The exit gas temperature is diluted in ambient with respect to the different wind speed and temperature cases in both scenario-1 and scenario-2, and mostly significant towards to the predominant wind direction (East to West), and effect for the receptor locations in that direction.

On an average of 0.5˚C excess was found in the east direction at the spatial distance of 10m and 30m height from ground. Mostly the simulation results derived under neutral plume trends forms the coning shape under sub-adiabatic conditions. For the both scenarios the average temperature excess in the ambient was found to be ~0.05 ˚C at a distance of 100m from stack location. As the plume mixing highly taken place with the unstable conditions of most dilution and rapid convection of plume leads less incremental changes of temperature in ambient environment. Thus overall the temperature excess in ambient air was found to be at the altitude range of 20m to 120m of atmosphere.

However for all the cases in both scenario-1 and scenario-2, surface level to 30m altitude of atmosphere has the insignificant excess in ambient temperature, and further altitudes (i.e. >30 m height) was found to be excessed with slight increment (~0.5˚C). However, the incremental temperature in the atmosphere at higher altitude is decreased with respect to the increased spatial distance from the stacks location.

Gmail Regional Office Chennai <roefccc1@gmail.com>

Submission of compliance status of M/s Kanishk Steel Industries Ltd.

1 message

Kanishk Steel <kanishkgpd@gmail.com> Thu, Feb 20, 2025 at 1:28 PM
To: "moefccc1@gmail.com" <moefccc1@gmail.com>, "roefccc1@gmail.com" <roefccc1@gmail.com>

Dear Sir,

In continuation of the site visit to M/s Kanishk Steel Industries Limited on February 13, 2025, we hereby submit the compliance status of the conditions mentioned in the Environmental Clearance documents referred to during the visit.

Kindly find the attached list of documents and annexures for your reference.

Note : Google drive link for access list of documents and annexures :- https://drive.google.com/drive/folders/1N_g71y3OtfJ0bUEYNYV8WIibMEUU9RvC?usp=sharing

Thanks & Regards

Ashok Bohra
Director
KANISHK STEEL INDUSTRIES LTD
B-27M, Sipcot Industrial Complex
Gummidipoondi-601201
Ph:27922634/834
Fax:27922835

www.kanishkgroup.com



"Think Before You Print"

"Save Paper"
"Save Environment!"

ANNEXURE XV

FIRE SERVICE LICENSE AND FIRE MOCK DRILL REPORT

FIRE SERVICE LICENSE

(Under Section 13 of the Tamil Nadu Fire Service Act 1985 and with Tamil Nadu Fire Service Rules 1990 Appendix III)

L. DIS. No. TN-3520240620103, 7382 / B / 2024 **Date: 28 - 06 - 2024**

LICENSE is here by granted under section 13 of the Tamil Nadu Fire Service Act 1985, for **Manufacturing Of Rolling Mill, LPG Cylinder 30 No's & Furnace Oil 50 KL** in the name of **M/s. KANISHK STEEL INDUSTRIES LIMITED** within the jurisdiction of **Gummidipoondi Sipcot** at **No. B-27(M), Sipcot Industrial Complex, Gummidipoondi Taluk, Thiruvallur District.** With total building area of **6038.69 Sq. M.** with Subject to the condition mentioned below noted there on and such other conditions as may be prescribed. The above premises inspected by **Station Officer, Gummidipoondi – Sipcot** on **26.06.2024**.

CONDITIONS

As per Tamil Nadu Fire Service Act 1985 Section 13 of Chapter II and appendix V of this Act.

1. According to G.O. No.713 Home (Police-17) Department, Dated 17.08.2005 the Permanent employees & Safety employees who is responsible for the safety of working in the company should be trained.
2. This License is valid for **One Year** from the date of issue.
3. Regular License has to be obtained from the Competent Authority.
4. The Following Fire & Life safety Systems / Arrangements provided in the building should be kept in good working condition always.
    a) Portable First Aid Fire Extinguishers – 24 No's
    b) Fire Bucket with Sand – 10 No's
    c) First Aid Box- 01 No
    d) Over Head Tank 10 KL & Reservoir Sump- 60 KL.
5. As Per NBC 2016 The Following Fire & Life Safety System / Arrangements Should Be Provided Within 06 Months
    a) First Aid Hose Reel System & Down Comers With 450 LPM Pump Should Be Provided.
    b) Manually Operated Electronic Fire Alarm Should Be Provided.
6. If there is any deviation from the Government Rule and Act the LICENSE issued will Stand Cancelled.
7. Mock Drill should be conducted once in 06 months along with nearby Fire & Rescue Service Stations.

(Office seal with date

28 JUN 2024

DISTRICT OFFICER
FIRE & RESCUE SERVICES,
THIRUVALLUR DISTRICT,
THIRUVALLUR.

To:

M/s. KANISHK STEEL INDUSTRIES LIMITED,
No. B-27(M), Sipcot Industrial Complex,
Gummidipoondi Taluk, Thiruvallur District.

Copy To: Deputy Director, Fire & Rescue Service, North western Region, Vellore-1.

தமிழ்நாடு பள்ளிகளில் 100 தீயணைப்பகங்கள்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

FIRE MOCK DRILL REPORT

PLACE:

KANISHK & OP STEELS INDUSTRIES LTD

Plot No.B-27 (M) SIPCOT Industrial Complex,

Gummidipoondi – 601 201.

Date : 03.04.2023.

தீ தடுப்பு பணியில் 100 சதவீதம் ஒத்துழைப்பு

Fire Loss is National Loss
Let us adopt Fire Safety Measures

FIRE MOCK DRILL REPORT

Factory : KANISHK & OP STEELS INDUSTRIES LTD

MUTUAL MEMBERS PARTICIPATED:

1. Mr. Ashok Thakur, General Manager,
2. Mr.Avtar Singh, Foreman,
3. Mr.Dewaram Puniya, Production Manager,
4. Mr.K.V. Babu, Electrical Engineer,
5. Mr.Sigamani, Maintenance Incharge
6. Mr.Gurumoorthy,Cashier
7. Mr.Govindaraj, H.R. Asst.
8. Mr.S.Selvaraj, Fire Officer,

1.	Location	:	**Emergency Assembly Point**
2.	Date of Fire Mock Drill	:	**03.04.2023**
3.	Time	:	**14.30 hrs**
4.	Time of Siren	:	**16.30 hrs**
5.	Evacuation of total time	:	**02.00 minutes**
6.	Total Employee	:	Staff: **42** / Worker: **94** / C.L: **80** / H.K: **12** / Security: **12** / Total: **240**
7.	Safety, First Aid, Health	:	Lecture by S.Selvaraj, Fire Officer.
8.	Communication System	:	Land Line
9.	Rescue Operation if any	:	Disaster Management Methods of Rescue and Evacuation
10.	Participation, observation by external agency / visiting staff if any	:	N I L
11.	Details of equipment used	:	Different types of D.G.pumps and main pumps and jockey pumps operating system in panel board to all the staffs.
12.	P.P.E	:	Following as per norms
13.	Preventive measures	:	GOOD
14.	Drill effectiveness	:	GOOD
15.	Participation / Role clarity	:	Training given to operate all the hydrant point and monitors.
16.	Team work and Co-ordination	:	First aid training also carried out.

03/04/2023

17.	Performance of facilities	:	SATISFACTORY
18.	Housekeeping	:	GOOD
19.	Suggestions to improve	:	To conduct mock drill and fire drill as per the norms by Fire Department.
20.	Short comings if any	:	Given Train to Security to operate extinguisher with PASS Method
21.	All Clear	:	**16.35 Hrs.**
22.	Half yearly Mock Drill 2023	:	**SATISFACTORY**
23.	Information given to	:	
i)	Office of the Factory Depts	:	**044 – 28112155,**
ii)	Pollution control Board	:	**044 – 27664425**
iii)	Police Station	:	**044 – 27922996**
iv)	Local Hospital G.H.	:	**044 – 27929357**
v)	Fire Station, SIPCOT	:	**044 – 27922701**
vi)	District Emergency Authority	:	**044 – 27974073**
vii)	TNEB	:	**044 – 27922801**
24.	Alarm System	:	
	Is alarm Audible in all work area?	:	**Yes**
25.	Wind Direction Indicator	:	
	Whether the indicator for wind direction visible from all places in plant	:	**Yes, It is located near Building Tower.**
26.	Control Room and Communication System	:	
	Were the communication system and their maintenance adequate	:	**Security Incharge and H.R. Safety Department**
27.	Communication System available incase of power failure including the name of messenger?	:	**Yes** **Security person and Safety Department**

03/04/2023

29.03.2023.

Fire officer,
Fire and Rescue Station,
Gummidipoondi – SIPCOT

காக்கும் பணியில் 100 ஆண்டுகள்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

CERTIFICATE

This is to certify that **M/s.KANISHK & OP STEELS INDUSTRIES LTD.,** Plot B-27, (M) SIPCOT Industrial complex,,Gummidipoondi Taluk– 601 201, periodically mock drill – 2023 on 03.04.2023 at 14.30 hrs to 16.30 hrs. between Staff and Labours, Security, Housekeeping Total 240 Members. Given Training and Lecture for about DG pump, main pump and jockey pump operating system in pump room panel board and training given to operate all the hydrant point and monitor system with fire fighting during summer seasons to all the staff and operate the Hydrant System first aid fire fighting portable extinguisher in the factory premises at the time of emergency.

Evacuation Drill Exercise also trains for Disaster Control Management Plan to all staffs by factory norms.

03/04/2023

Office Seal

29. Rajeswari 03/04/2023.

Fire officer,
Fire and Rescue Station,
Gummidipoondi – SIPCOT





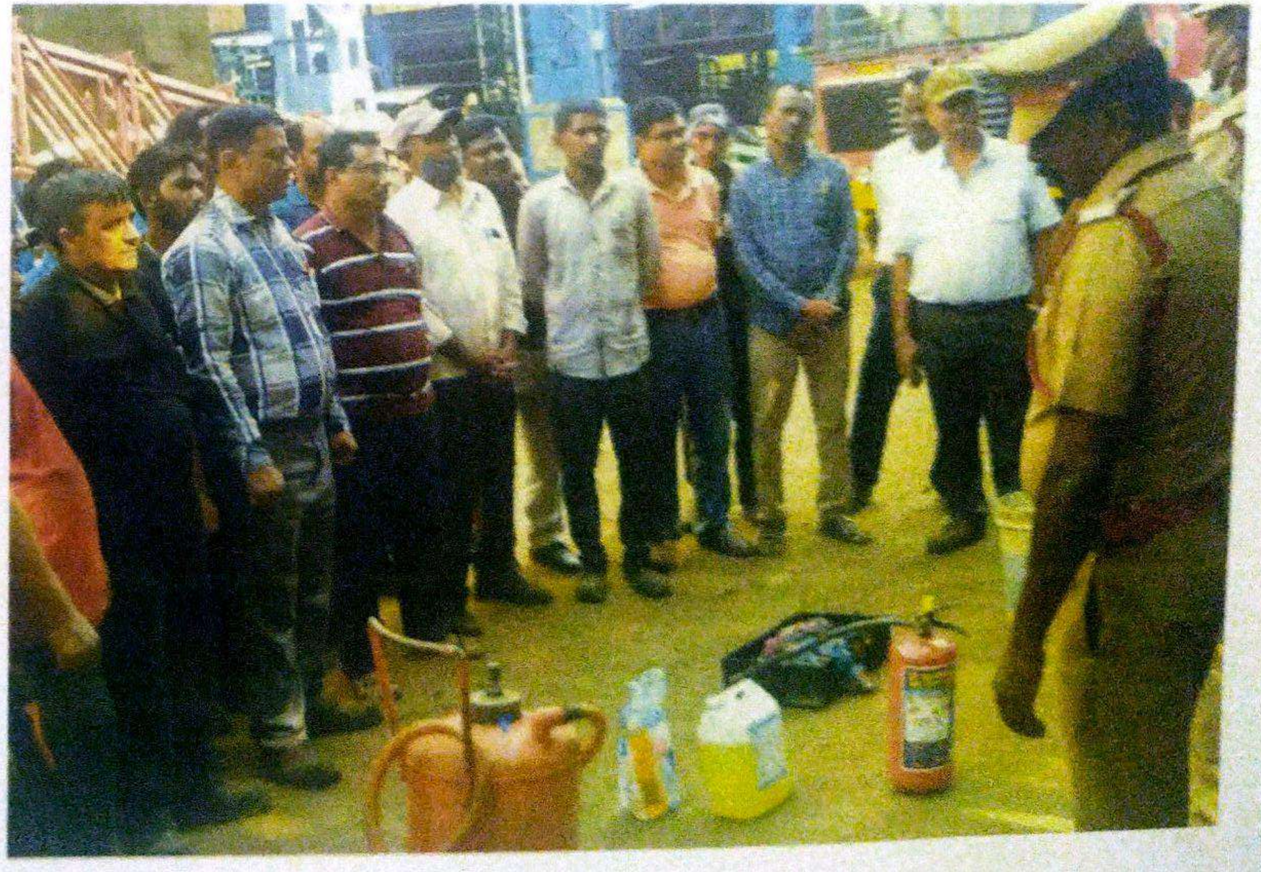








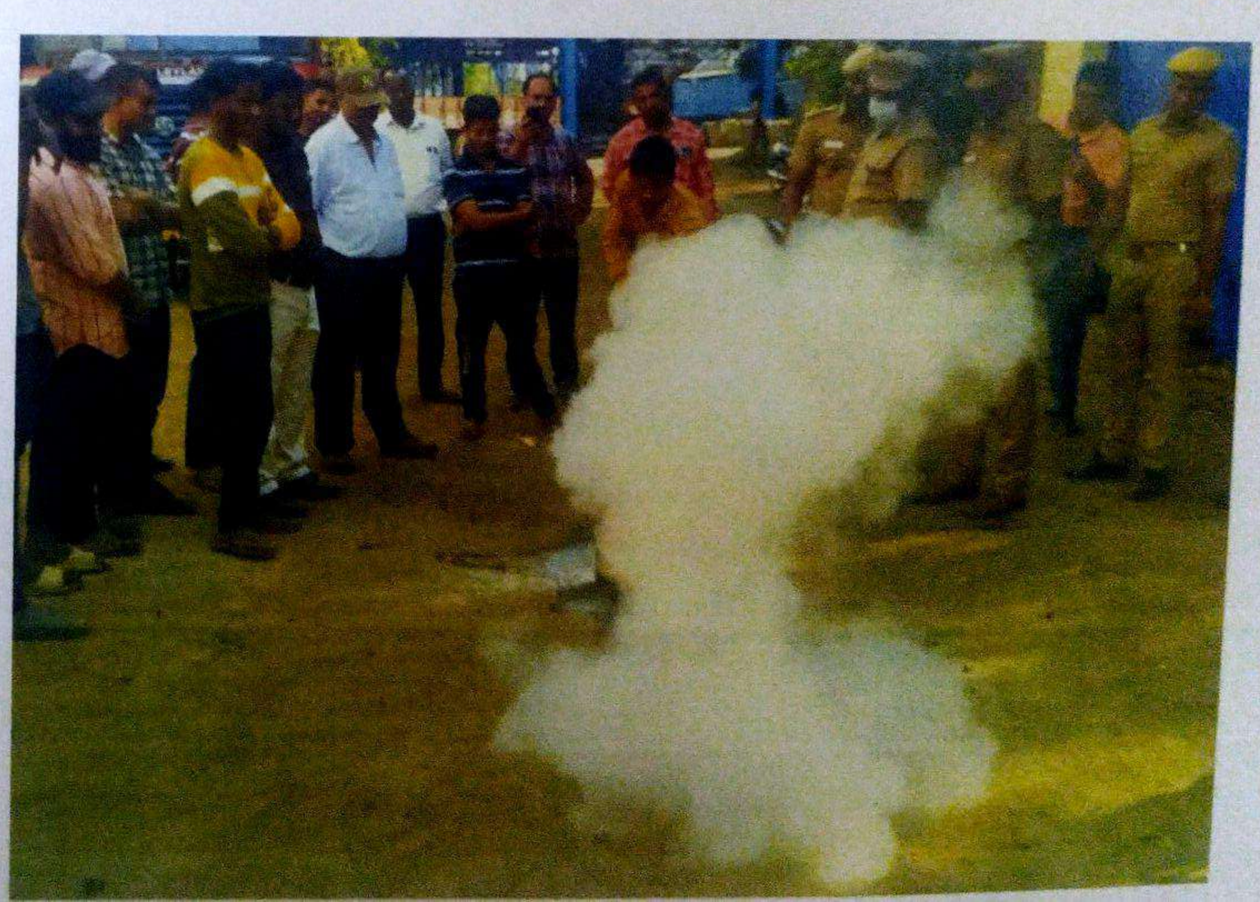




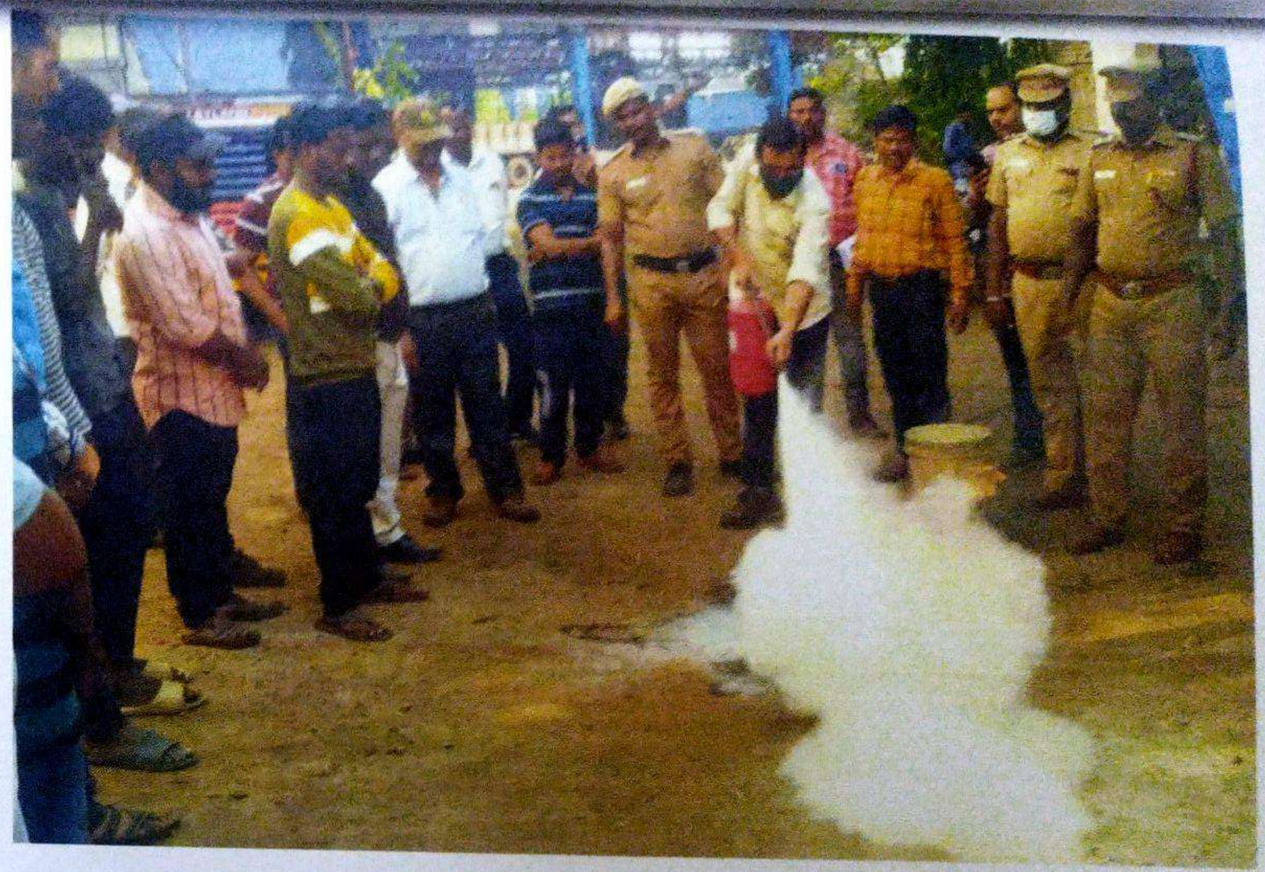






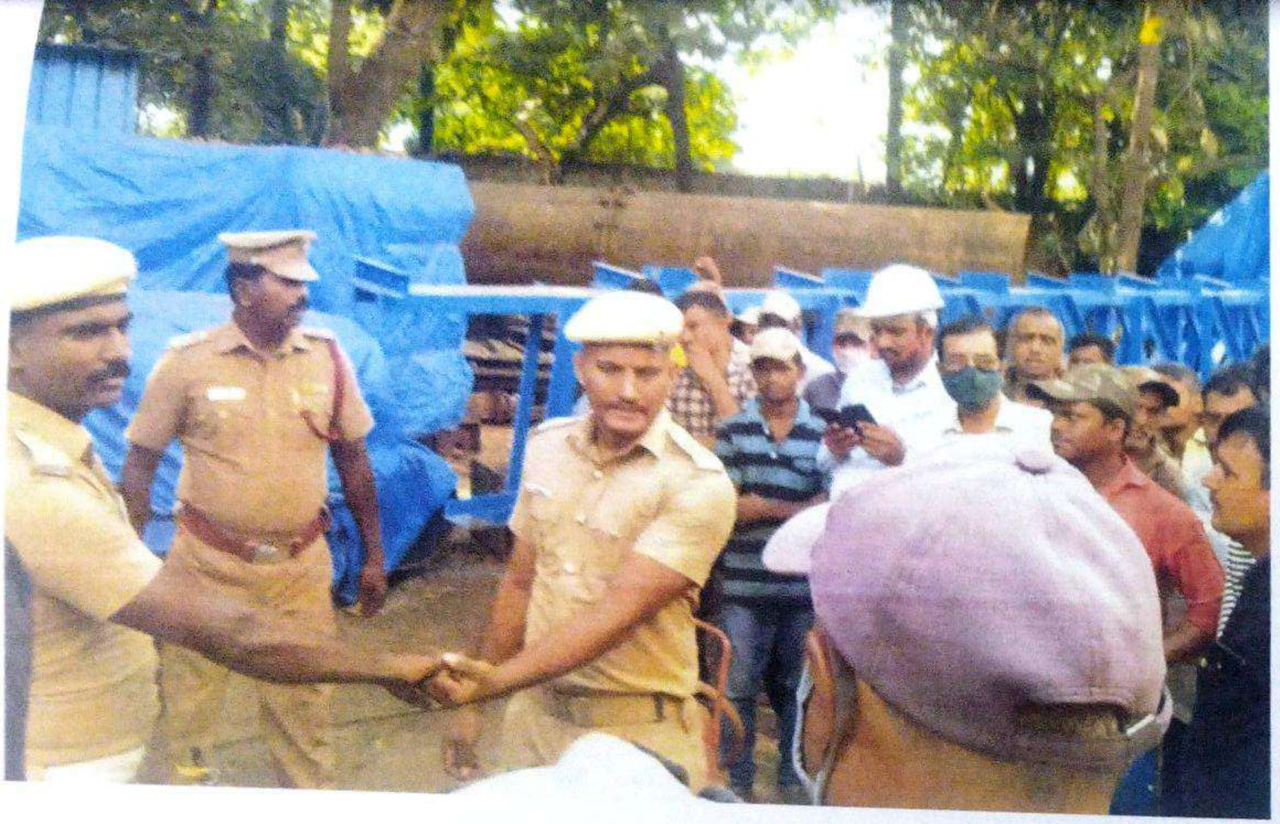


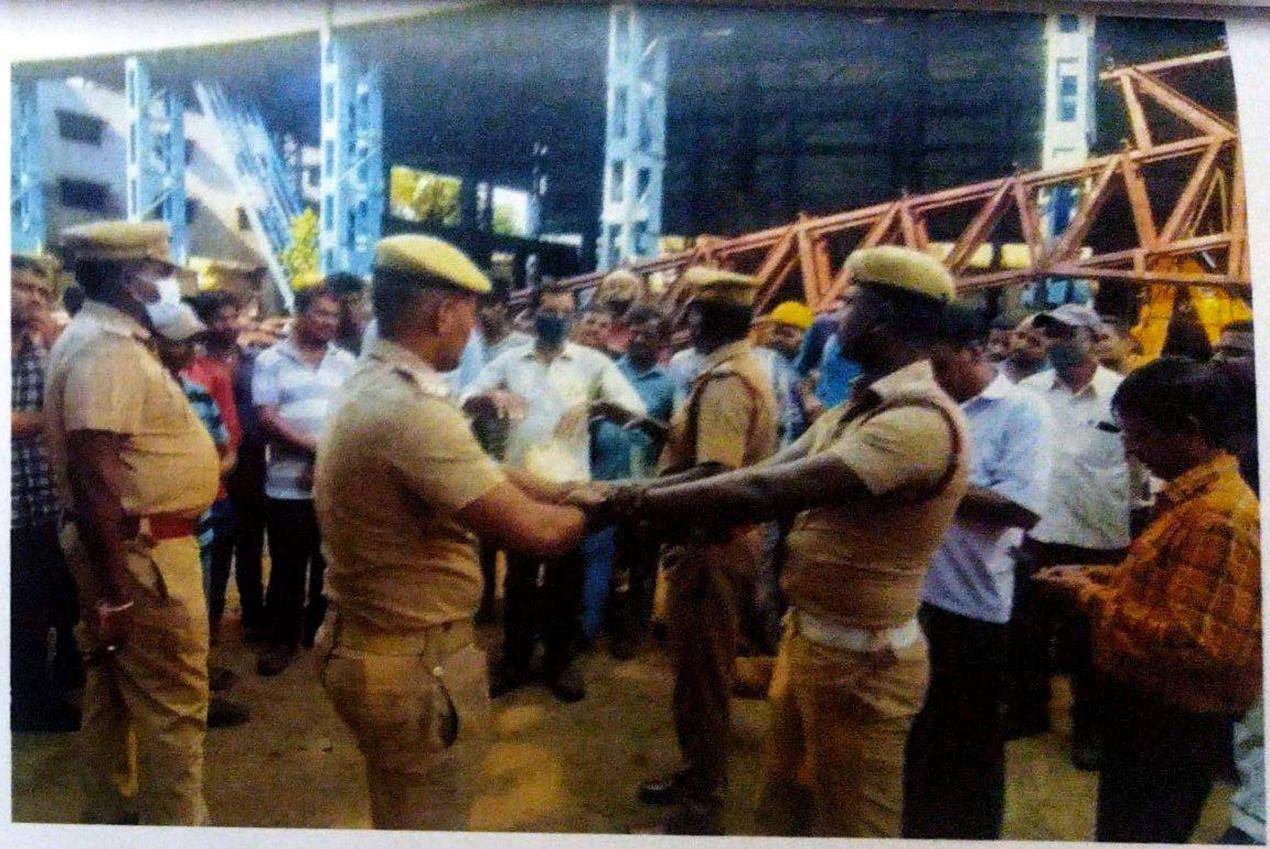


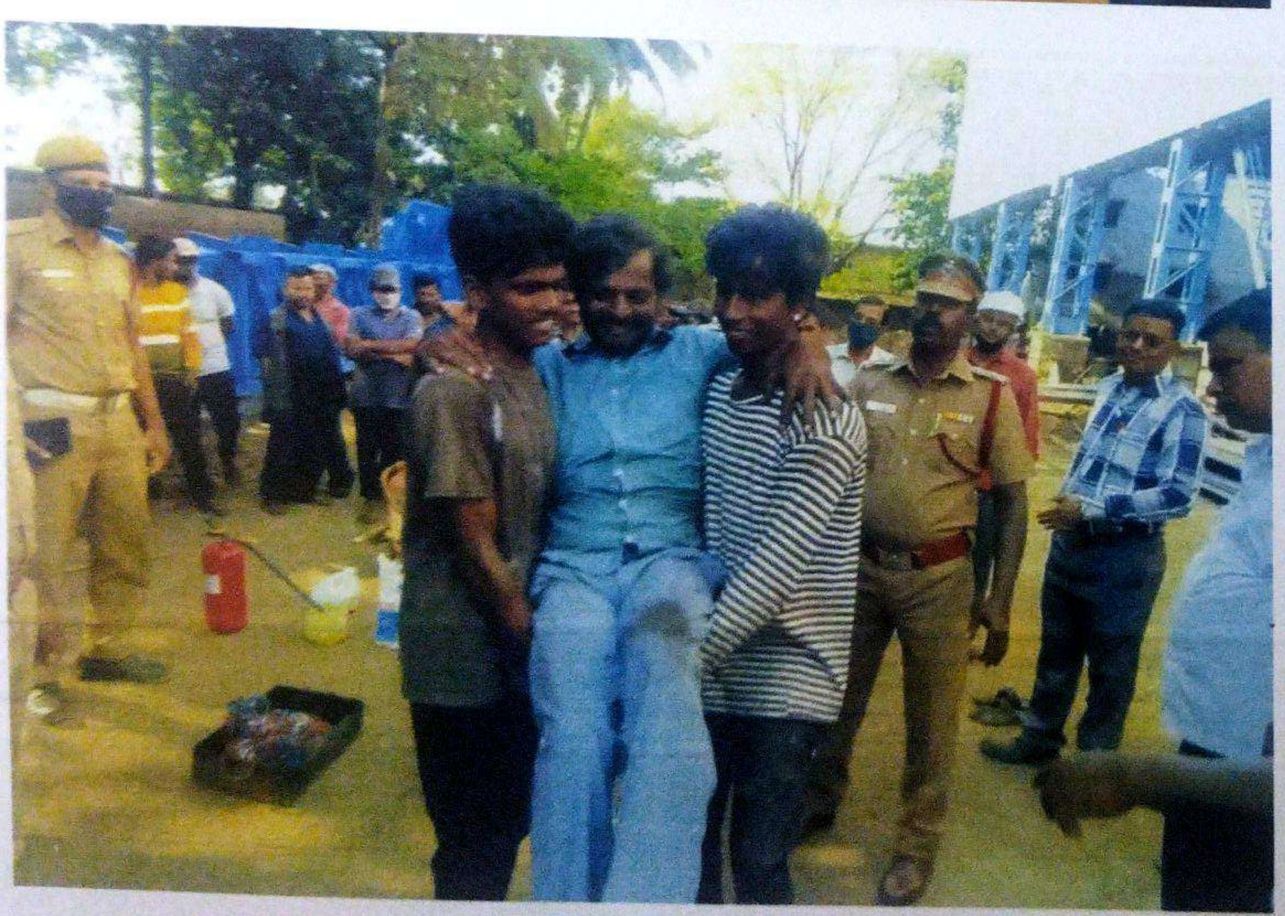


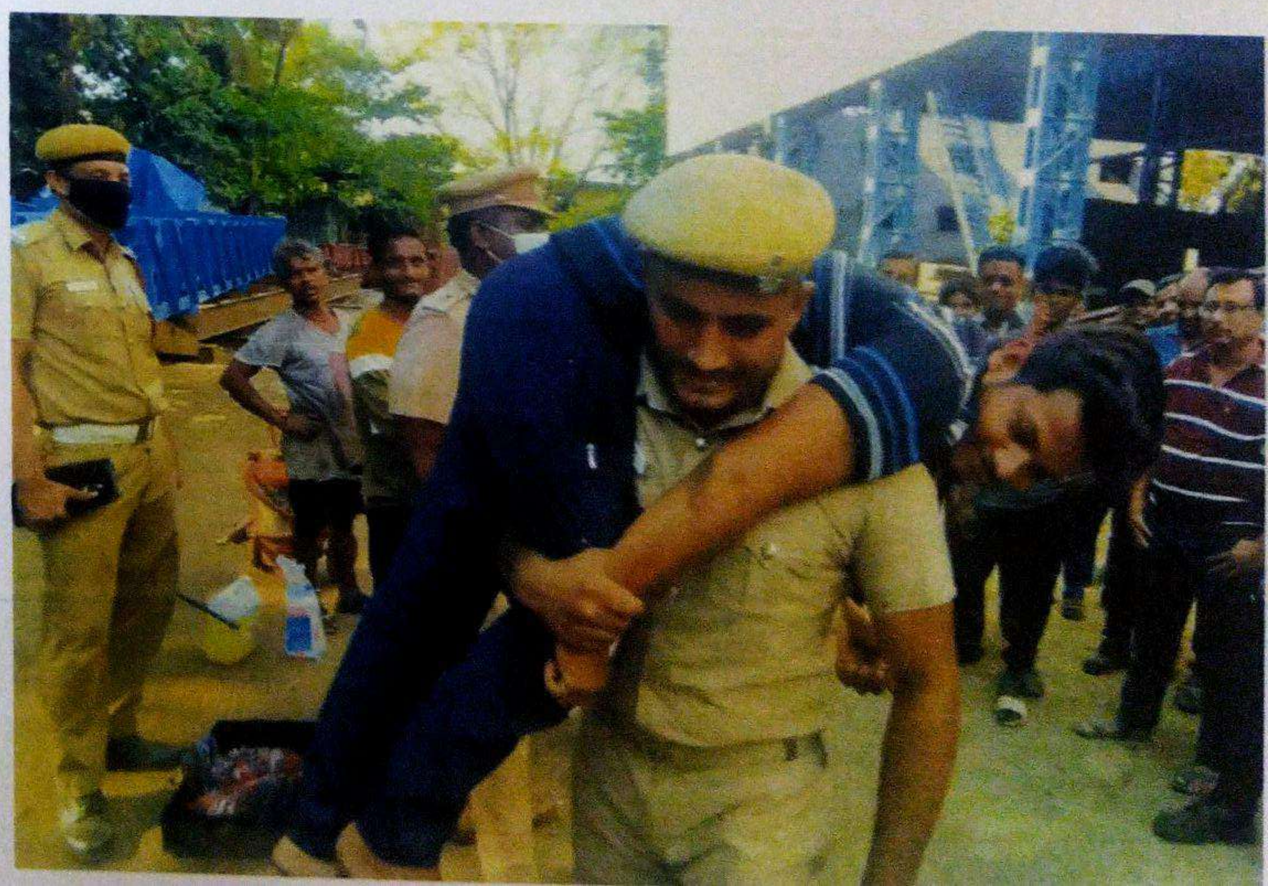




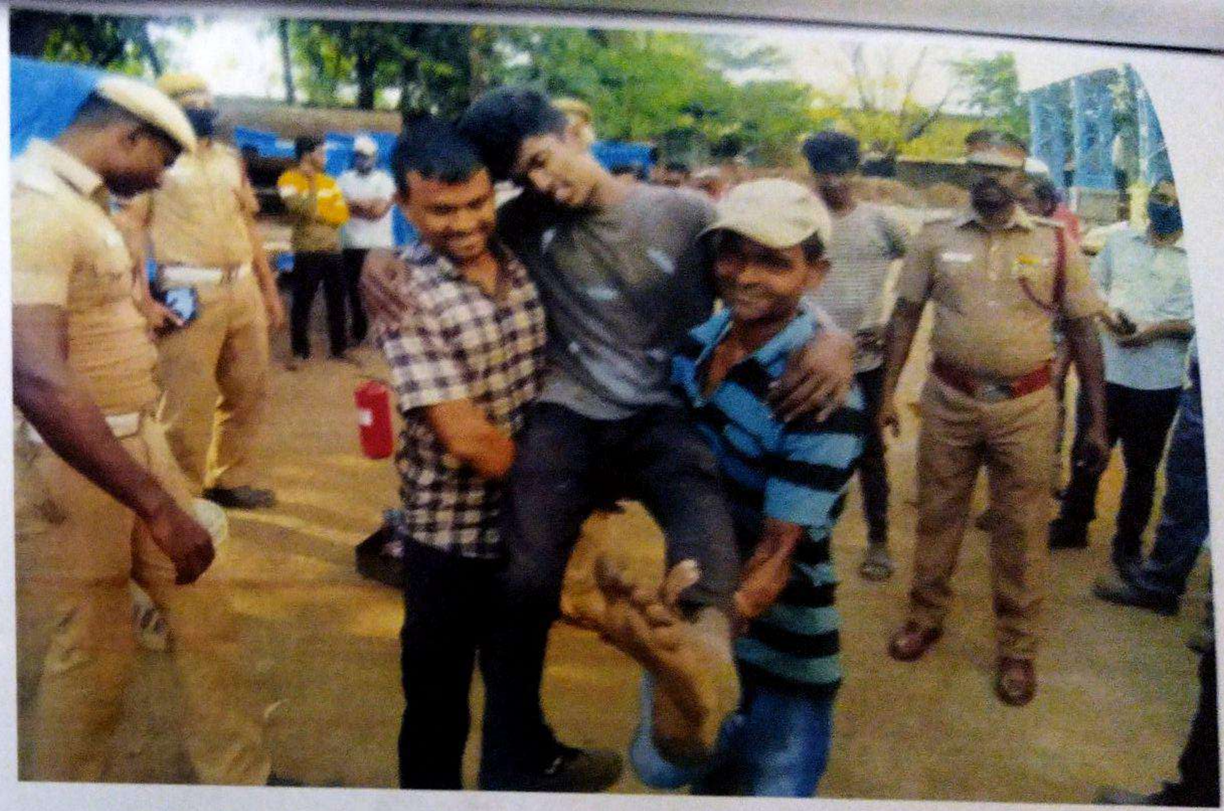


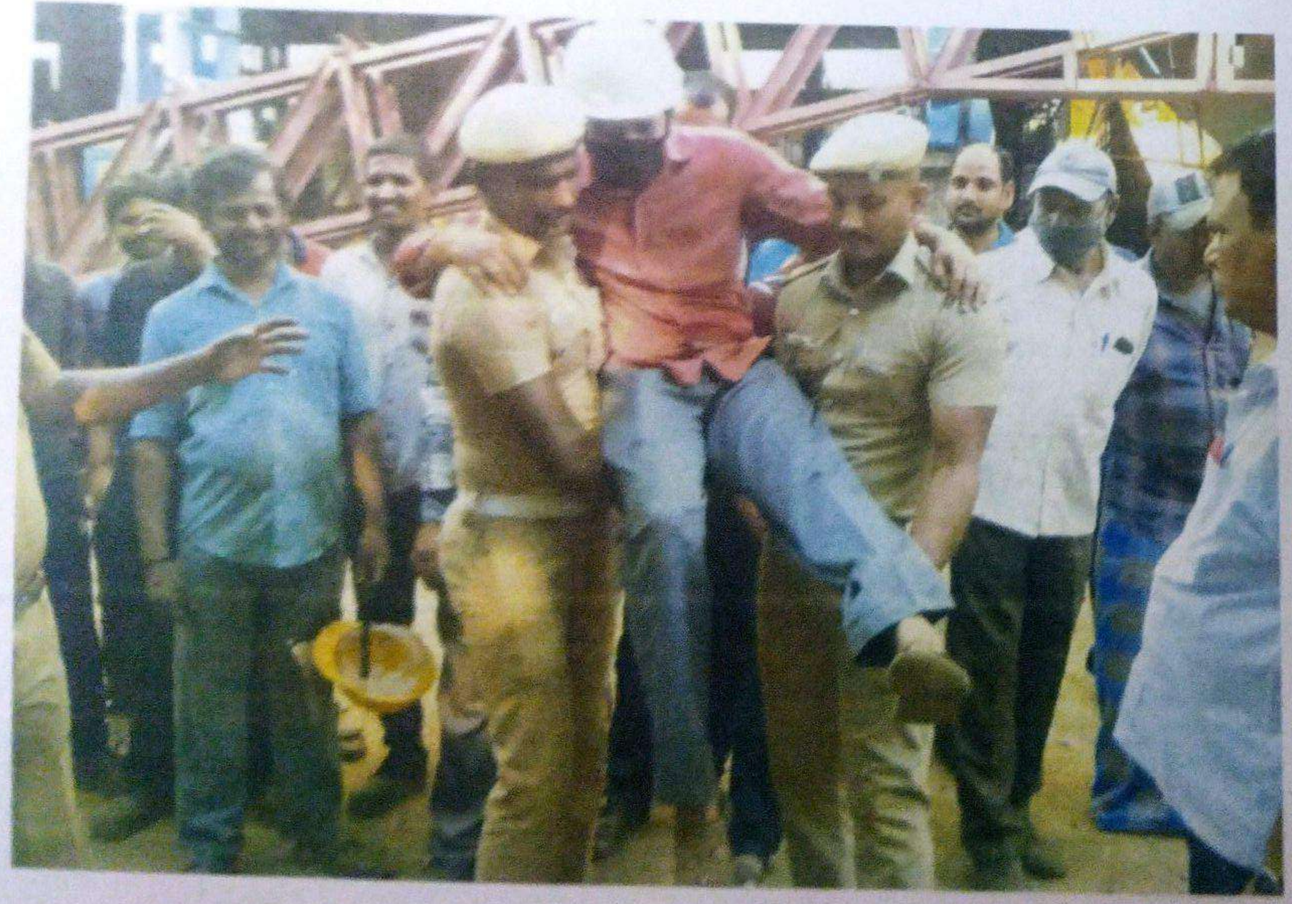




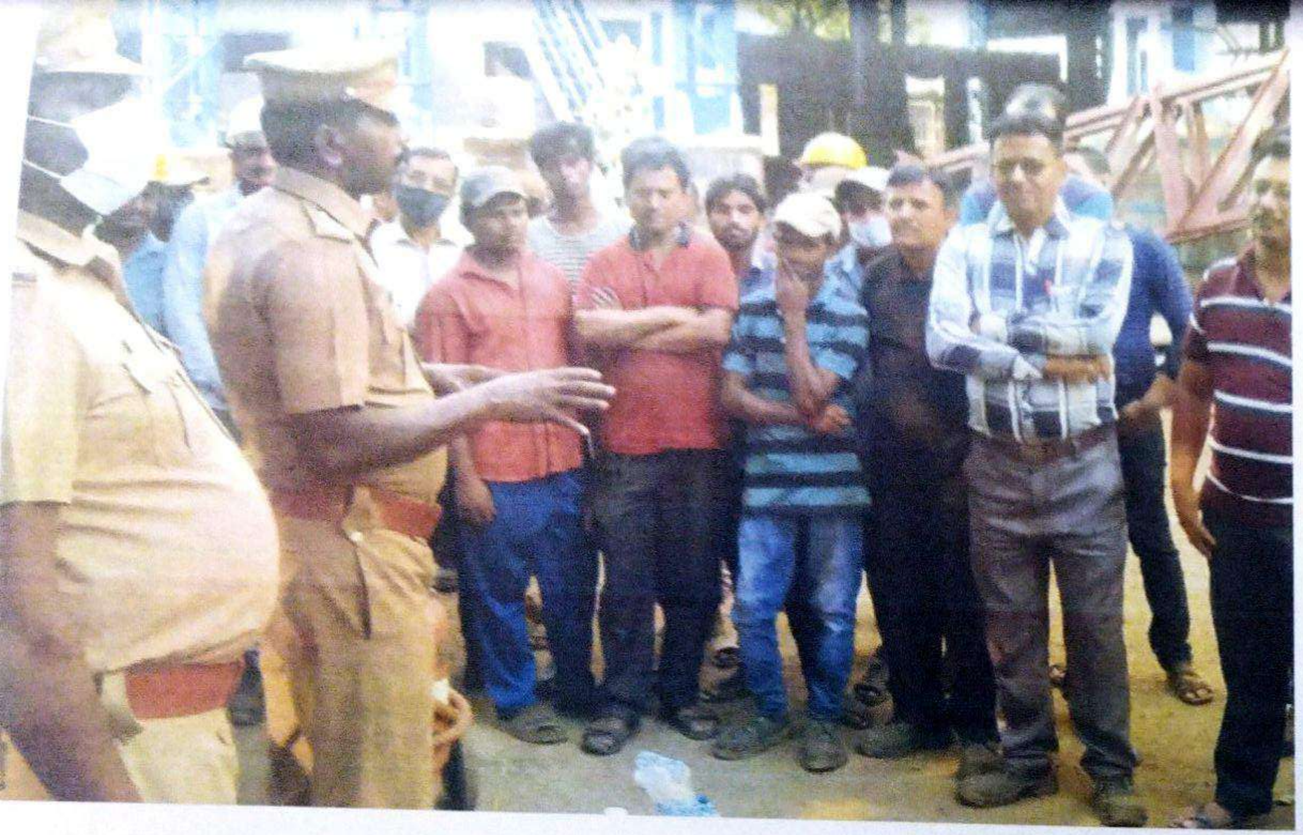


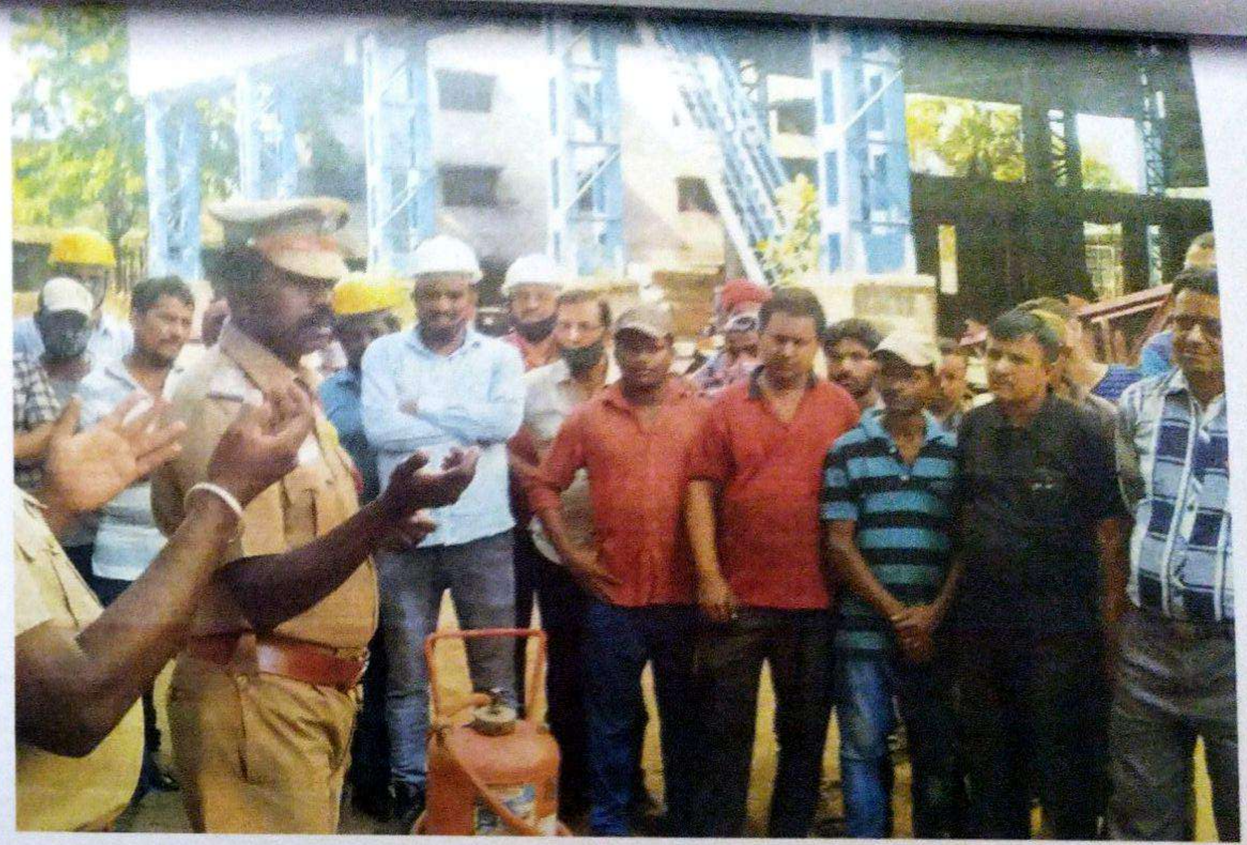


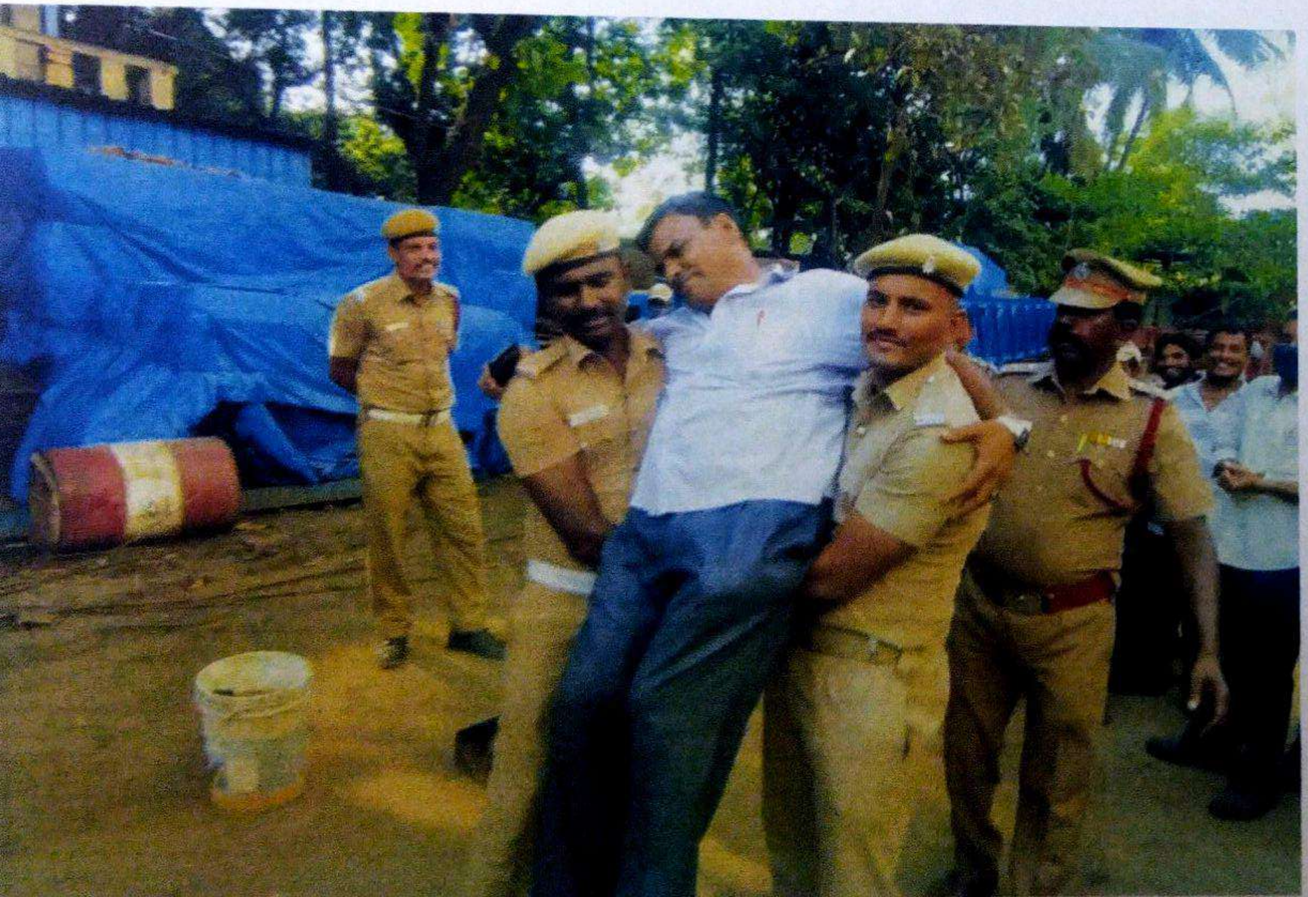




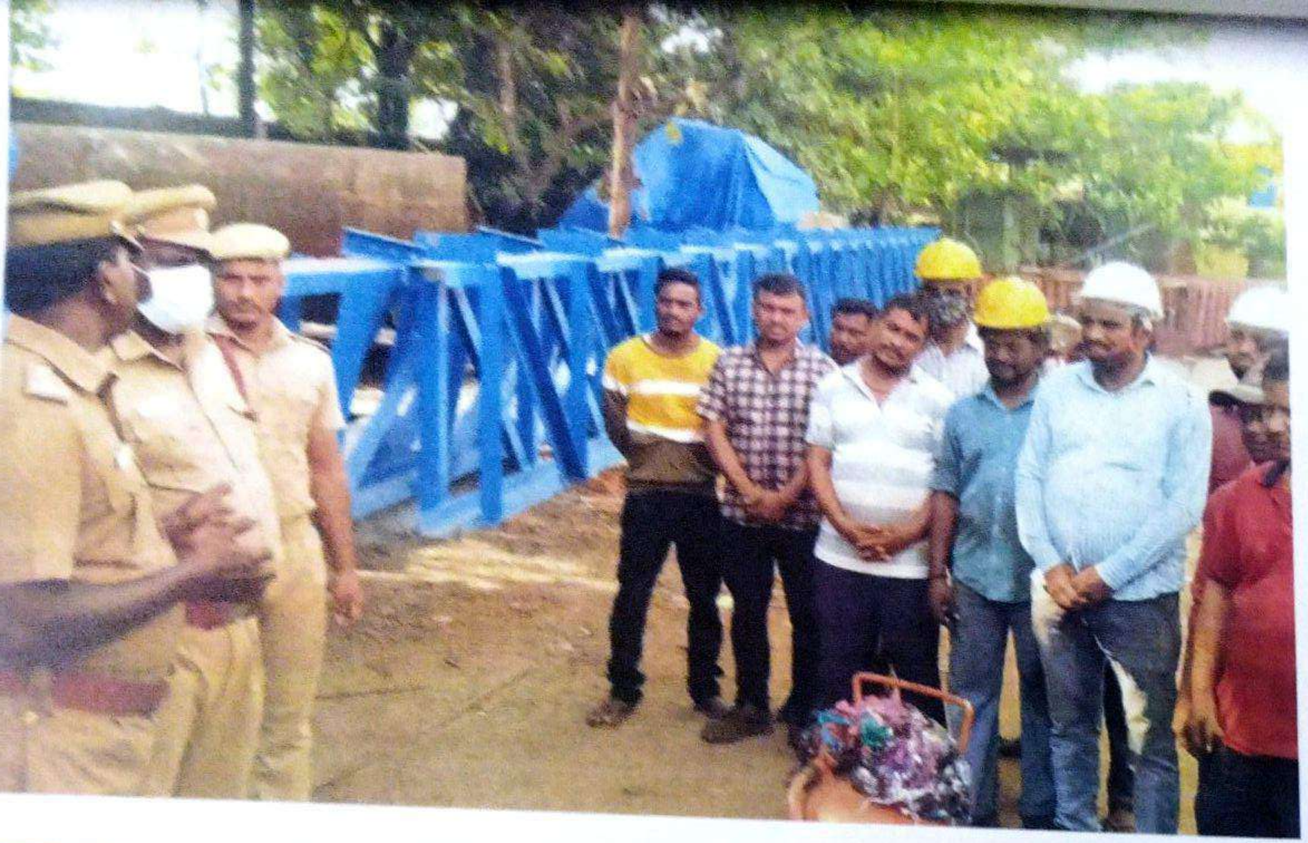













ASHOK LEYLAND




ASHOK LEYLAND

ANNEXURE XVI

COST DETAIL FOR CORPORATE ENVIRONMENTAL RESPONSIBILITY

(CER)

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

CORPORATE ENVIRONMENTAL RESPONSIBILITY

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	IMPROVEMENT AND REJUVANATION OF THAMRAI ERI POND AND GREEN DEVELOPMENT ACTIVITY TREES PLANTED IN AND AROUND OF THAMRAI ERI LAKE	15.43
2	AT 15 WARD NEAR VILLAGE GANGANTHOTTI DRINKING WATER FACILITY PROVIDED	2.0355
	Total	**17.46**

Source: KSIL, Gummidipoondi

for KANISHK STEEL INDUSTRIES LTD

Director

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

ORIGINAL GOR RECIPIENT

DSS CRANES

Available for Hire, Escorts Crane, Crawler Cranes Telescopes
No:598/1, Bye Pass Road, Gummidipoondi, Thiruvallur Dist, Tamil Nadu, 601201
Mobile No:9443642665/9245299466

CASH/CREDIT BILL

TIN	: 33FOVPS3414G1ZL	SAC: 996609	TAX INVOICE NO	1
PAN NO	: FOVPS3414G		Date of Issue	04.09.2019

CUSTOMER / RECIPIENT NAME AND ADDRESS

Name : KANISHK STEEL INDUSTRIES LTD
Address NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX,
GUMMIDIPOONDI - 601201.
State Code: 33
GSTIN : 33AAABCK2367G1ZS

CONSIGNEE / SHIP TO PARTY NAME AND ADDRESS

Name : KANISHK STEEL INDUSTRIES LTD
Address NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX,
GUMMIDIPOONDI - 601201.
State Code: 33
GSTIN : 33AAABCK2367G1ZS

SNO	Particulars	DATE	HOURS	RATE	AMOUNT
1	Desilting & Bund Formation at Thamarai Lake - Gummidipoond [Under their CSR Activity]				300000.00
			Taxable value		300000.00
			SGST @ 9%		27000.00
			CGST @ 9%		27000.00
			TOTAL		354000.00

Rupees: Three Lakhs Fifty Four Thousand Only

For DSS CRANES

Authorised Signatory

D.S.S. CRANES GUMMIDIPOONDI

Cheque no: 350656/10/09/19

PAN: BDZPD2901A

Cell: 99403 [illegible]
99943 [illegible]

P. DASARADHA REDDY

JCB & Ex-60, Poclain & Lorry on Hire

Bodireddy Kandigai Village, S.R. Kandigai Post, Gummudipoondi - 601 201

Date: 5.9.19

Ref:

M/s. Kanishk Steel industries (P) (JCB)

work done at Thamarai Ex:

No	Date	Hours
1)	28-8-19	8 hours
2)	29-8-19	10 hrs
3)	30-8-19	9 hrs
4)	31-8-19	8 hrs
5)	01-9-19	9 hrs
6)	03-9-19	7 hrs
7)	04-9-19	9 hrs

Total Hours : 60 hrs

Hours Rate : 750

: 60 x 750

Total amount : 45000

Only

: BDZPD2901A

Cell: 99403 [illegible]
99943 [illegible]

P. DASARADHA REDDY

JCB & Ex-60, Poclain & Lorry on Hire

Bodireddy Kandigai Village, S.R. Kandigai Post, Gummudipoondi - 601 20[illegible]

Ref:

Date: 5/9/19

M/s Khanishk Steel industries (ITO)

Gummudipoondi

(Lorry)

work done at thamarai Ex.

Date: 28-8-19 : 1 day full
: 29-8-19 : 1 day full
: 30-8-19 : 1 day full
: 01-9-19 : 1 day full
: 03-9-19 : 1 day full
: 04-9-19 : 1 day full

Total days 6 days

one day Per Rate 5000

: 6 × 5000

Total amount : 30,000/-

Yours [illegible]

P. SUDHAKAR
EARTH MOVERS

B.R.KANDIGAI VILLAGE, S.R.KANDIGAI POST, Gummidipoondi & Thiruvallur (Dt)

Date 06/09/2019

M/s. Kanishk steel Industries limited.
Gummidipoondi - 601201

[Lorry] ⇒ TN18M2143

Thamarai Eri Sand Removing Works

Data:-

20/08/2019	1 day	⇒ Full
21/08/2019	1 day	⇒ Full
22/08/2019	1 day	⇒ Full
23/08/2019	1 day	⇒ Full
24/08/2019	1 day	⇒ Full
26/08/2019	1 day	⇒ Full
27/08/2019	1 day	⇒ Full
28/08/2019	1 day	⇒ Full
29/08/2019	1 day	⇒ Full
30/08/2019	1 day	⇒ Full
01/09/2019	1 day	⇒ Full

11 days × 5000/- = 55,000/-

PAN No. : DHQPS5691C

P. SUDHAKAR
EARTH MOVERS

B.R.KANDIGAI VILLAGE, S.R.KANDIGAI POST, Gummidipoondi Tk, Thiruvallur Dist.

Date 06/09/2019

To M/s. Kanishk Steel Industries limited, - Gpdo - 601201

JCB Works

Thamarai Eri Sand Removing Works

S.L NO	Date	Hours
1.	26/08/19	8 hour
2.	27/08/19	10 hour
3.	28/08/19	9 hour
4.	23/08/19	8.50 hour
5.	24/08/19	9. hour.
6.	26/08/19	7.hour
7.	27/08/19	9 hour
8.	28/08/19	10 hour
9.	29/08/19	4.90 hour
10.	30/08/19	8 hour
11.	01/09/19	9 hour

92.40 hour x 750 = 69,300/-

[Sixty Nine thousand three hundred Rupees only]

Available for Hire, Escorts Crane, Crawler Cranes Telescopes

[illegible] Bye Pass Road, Gummidipoondi, Thiruvallur Dist, Tamil Nadu, 601201

Mobile No:9443642665/9245299466

CASH/CREDIT BILL

	33FOVPS3[illegible]G1ZL	SAC: 996609	TAX INVOICE NO	3
C	FOVPS[illegible]G		Date of Issue	16.10.2019

NAME AND ADDRESS	CONSIGNEE / SHIP TO PARTY NAME AND ADDRESS
KANISHK STEEL INDUSTRIES LTD	Name : KANISHK STEEL INDUSTRIES LTD
NO B-27, M & N,IPCOT INDUSTRIAL COPLEX,	Address NO:B-27, M & N,IPCOT INDUSTRIAL COPLEX,
GUMMIDIPOONDI - 601201.	GUMMIDIPOONDI - 601201.
Code 33	State Code: 33
33AAABCK2367G1ZS	GSTIN : 33AAABCK2367G1ZS

NO	Particulars	DATE	HOURS	RATE	AMOUNT
1	Desilting & Bund Formation at Thamaraikulam - Gummidipoond [Under their CSR Activity]		7264 MQB	155	1125920.00
	Advance				-300000.00
	Rounding Off				0.40
			Taxable value		825920.00
			SGST @ 9%		74332.80
			CGST @ 9%		74332.80
			TOTAL		974586.00

Words: Nine Lakhs Seventy Four Thousand Five Hundred and Eighty Six Only

For DSS CRANES

Authorised Signatory

D.S.S. CRANES ★ GUMMIDIPOONDI ★

[illegible] 20-71



CRYSTAL WATER TECHNOLOGIES
PLOT NO66, DOORNO16A, G1
NEW N.G.O. COLONY 2ND MAIN ROAD
ADAMBAKKAM
CHENNAI - 600 088
GSTIN/UIN: 33ABTPC8040K1Z9
State Name : Tamil Nadu, Code : 33
Contact : 9840462882,9840462882
E-Mail : crystal_water@rediffmail.com
www.chennaicrystalwater.com

Invoice No.	e-Way Bill No.	Dated
200		19-Aug-2022
Delivery Note		Mode/Terms of Payment
Supplier's Ref.		Other Reference(s)
Buyer's Order No.		Dated
Despatch Document No.		Delivery Note Date
Despatched through		Destination
Terms of Delivery		

Buyer
M/S. KANISHK STEEL
B-27, SIPCOT INDUSTRIAL ESTATE
GUMUDIPOONDI
CHENNAI
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33

Sl No	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**RO PLANT 250 LPH**	84212110	**1 NOS**	1,64,000.00	NOS	**1,64,000.00**
2	**STORAGE TANK - 1000 LTRS (PVC TANK)**	39251000	**1 NOS**	8,500.00	NOS	**8,500.00**
						1,72,500.00
	CGST OUTPUT TAX					**15,525.00**
	SGST OUT PUT TAX					**15,525.00**
	Total		**2 NOS**			**₹ 2,03,550.00**

Amount Chargeable (in words) E. & O.E
Indian Rupees Two Lakh Three Thousand Five Hundred Fifty Only

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
84212110	1,64,000.00	9%	14,760.00	9%	14,760.00	29,520.00
39251000	8,500.00	9%	765.00	9%	765.00	1,530.00
Total	1,72,500.00		15,525.00		15,525.00	31,050.00

Tax Amount (in words) : **Indian Rupees Thirty One Thousand Fifty Only**

KANISHK STEEL INDUSTRIES LTD.,
Receiving Aug 99
Date 22/8/22

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details
Bank Name : **INDIAN BANK OD ACCOUNT**
A/c No. : **739743061**
Branch & IFS Code : **VELACHERRY & IDIB000V013**

for **CRYSTAL WATER TECHNOLOGIES**

Authorised Signatory

This is a Computer Generated Invoice

CRYSTAL WATER TECHNOLOGIES CHENNAI 600 088

ANNEXURE XVII

HEALTH, SAFETY & ENVIRONMENTAL POLICY

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

HEALTH, SAFETY & ENVIRONMENTAL POLICY

We Kanishk Steel Industries Limited are committed to implementation of OHSE Policy to create safe and Healthy Environment to all its stake holders (Employees, contractors, contract labours, trainees, suppliers, customers and Interested parties as an integral part of our manufacturing business)

Through:

- Compliance of all applicable legal and other requirements related to the Occupational Health, Safety and Environment (OHSE).
- Setting objectives and targets to climinate/control and minimize waste generation and environmental pollution, risks due to Occupational Health and Safety Hazards.
- Enhancement of environmental awareness amongst employees, customers, supplier's contractors and all interested parties by proactive communication and periodical training.
- Continuous improvement through periodical review of Occupational Health, Safety and Environmental Management System to ensure its suitability, adequacy and effectiveness.
- Communication OF HSE Policy to all employees, customers, supplier's contractors and all related parties.
- Co-oridination with concerned Government agencies/Regulatory bodies engaged in Occupational Health, Safety and Environmental activities

Approved by:

For M/s. Kanishk Steel Industries Limited,

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD
Director

Effective Date : 27/07/2023

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

BOARD RESOLUTION

RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF M/S KANISHK STEEL INDUSTRIES LIMITED (KSIL) IN THEIR MEETING HELD ON 08/08/2023

RESOLVED THAT the Environmental Policy of M/s Kanishk Steel Industries Limited (KSIL), as set out in this document, be and is hereby approved and adopted for implementation across all operations of the company.

RESOLVED FURTHER THAT the company shall implement necessary measures to ensure compliance with all environmental, forest, and wildlife norms and conditions, as prescribed by regulatory authorities.

RESOLVED FURTHER THAT the Managing Director and other authorized officials be and are hereby empowered to oversee the enforcement of this policy and to make necessary modifications in alignment with legal and regulatory requirements from time to time.

RESOLVED FURTHER THAT the Board of Directors shall periodically review the effectiveness of this policy and ensure continual improvement in environmental performance.

CERTIFIED TRUE COPY

For **M/s Kanishk Steel Industries Limited (KSIL)**

KANISHK STEEL INDUSTRIES LTD

for

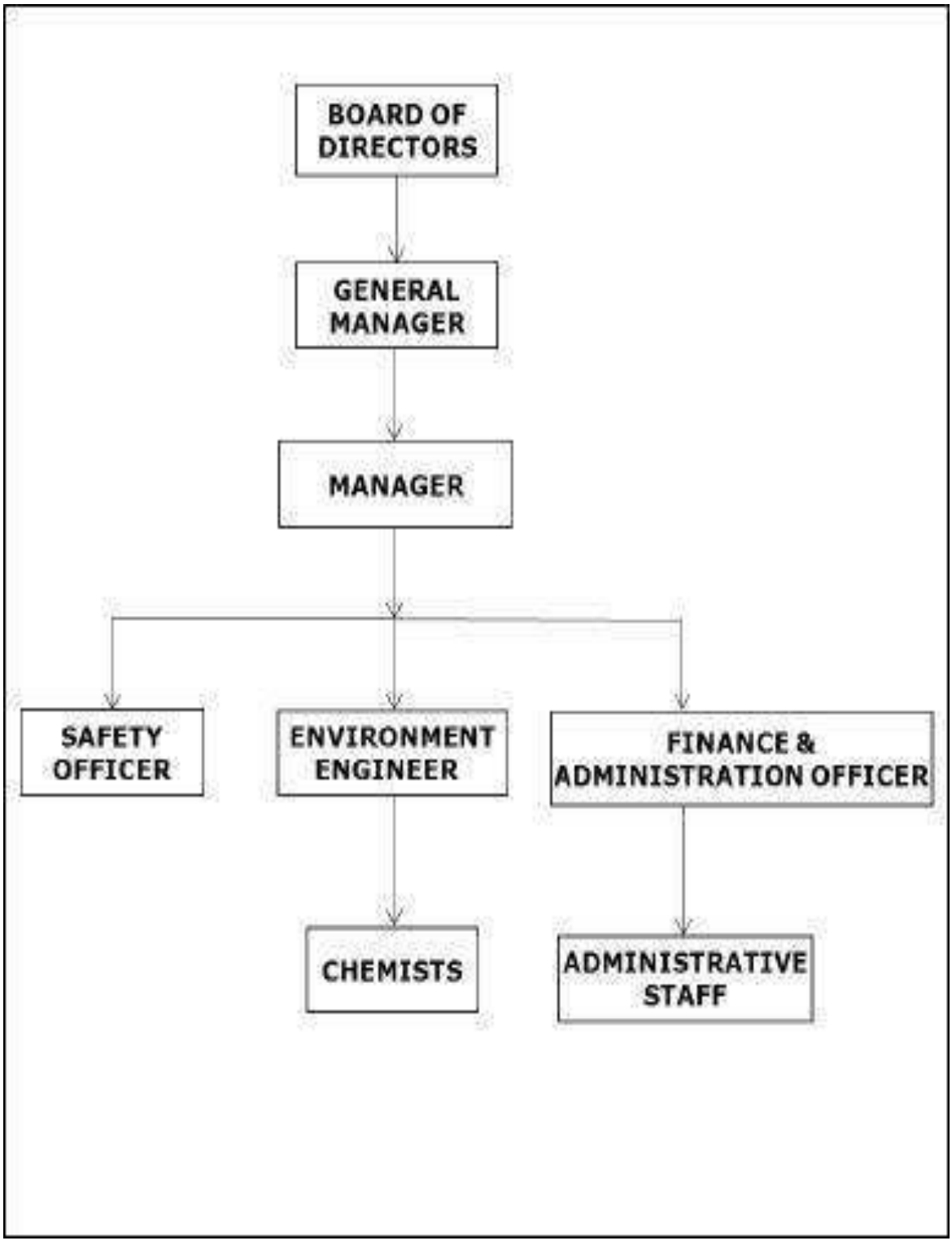
Director

(Ashok Bohra)
Director

Date: 08/08/2023

ANNEXURE XVIII

ORGANISATIONAL CHART OF ENVIRONMENTAL CELL



POSITION	ROLES & RESPONSIBILITIES
Board of Directors	Oversees overall strategic planning, financial management, and compliance with industrial regulations. Approves major investments and expansions.
General Manager	Ensures plant operations run smoothly, optimizes production, and aligns with company objectives. Oversees compliance with environmental and safety norms.
Manager	Supervises daily operations of the steel melting plant and rolling mill. Coordinates between departments for smooth workflow and ensures production targets are met.
Safety Officer	Implements and monitors workplace safety protocols. Conducts safety training, risk assessments, and ensures compliance with industrial safety standards.
Environment Engineer	Manages environmental compliance, pollution control measures, and waste management. Ensures adherence to air and water quality standards.
Chemists	Conducts quality analysis of raw materials, molten metal, and final products. Ensures compliance with chemical composition requirements and industry standards.
Finance & Administration Officer	Manages budgeting, financial planning, procurement of raw materials, and employee payroll. Handles administrative operations and maintains compliance with government regulations.
Administrative Staff	Supports documentation, data entry, record-keeping, and coordination between departments. Ensures compliance with standard operating procedures.

This structure ensures efficient plant operations, safety, environmental compliance, and high-quality production.

ANNEXURE XIX

ENVIRONMENTAL AUDIT REPORT

ENVIRONMENTAL STATEMENT (AUDIT)

FOR THE FINANCIAL YEAR 2023-2024

For



M/S Kanishk Steel Industries Limited

Gummidipoondi Taluk,
Thiruvallur District.

WasmanPro
Environmental Solutions

Prepared By

WASMANPRO ENVIRONMENTAL SOLUTIONS LLP

No7, F3, Sanjeevi flats, 4th main road,Thillaiganga nagar, Nanganallur,

Chennai -600061

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1. ENVIRONMENTAL AUDIT REPORT OF THE KANISHK STEELS INDUSTRIES LIMITED FOR THE FINANACIAL YEAR 2023-2024

1.1 INTRODUCTION:

M/s KANISHK STEELS INDUSTRIES LIMITED a leading Steel manufacturer based in Chennai, Tamil Nadu. It has its Steel Melting plant and Rolling Mill in the SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District.

Kanishk Steels Industries Limited has its Administrative Office located at Mylapore, The Regd. Office is situated a Gummidipoondi, Thiruvallur District. Branch offices are located in Cochin and in Bangalore. Kanishk Steels has Wind farm sites at Vadamacherry, Palladam T.K., Coimbatore District, and Pazahoor, Tirunelveli District.

The project spans a significant land area within the SIPCOT Industrial Complex, with a 10 km radius around the plant site encompassing diverse land types. Notably, 14,558.3 hectares (ha) of the area is used for cultivation, including both irrigated and un-irrigated lands, while 1,127.62 ha is classified as cultivable wasteland. Additionally, 8,208.79 ha is designated as land not available for cultivation, comprising scrubland, quarries, and barren areas. These land classifications are crucial for assessing the environmental and developmental impacts of the project.

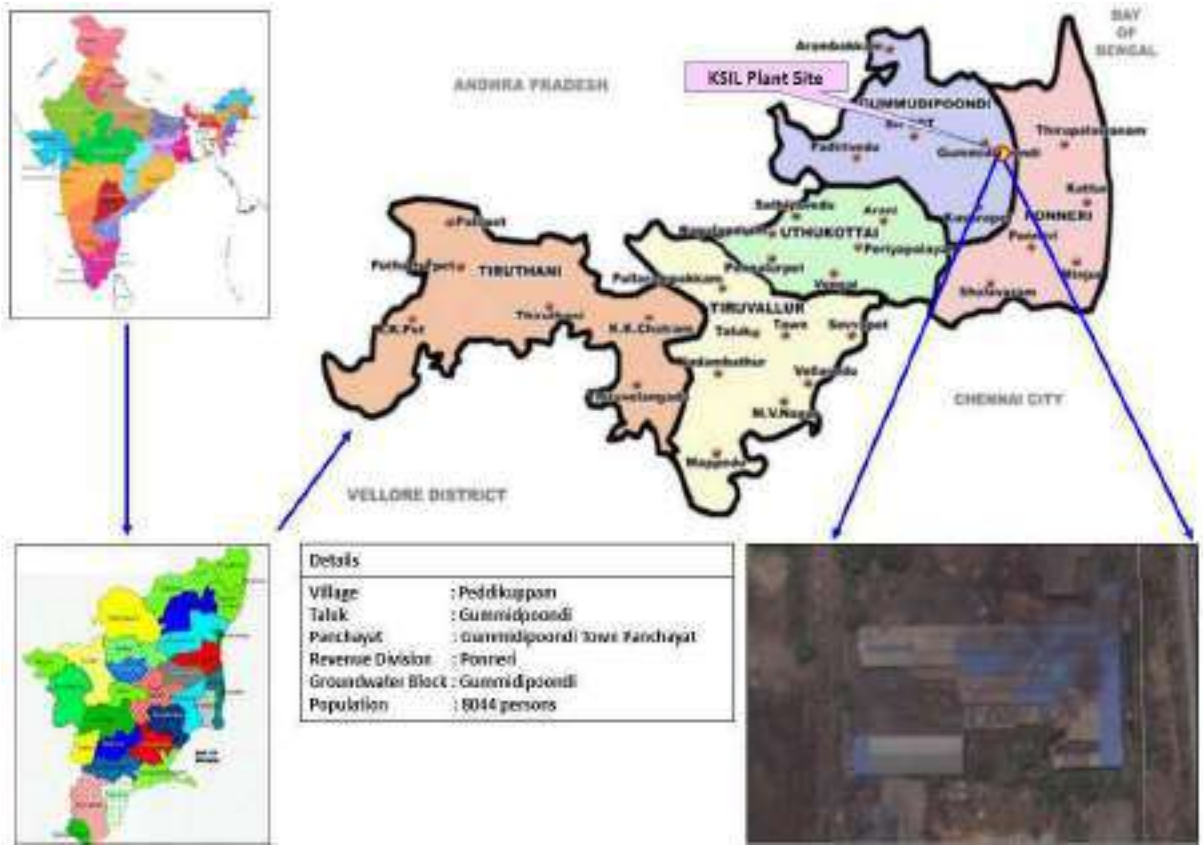


Figure 1: Index Map Showing the Location of the KSIL Plant Site

The environmental audit for M/s KANISHK STEELS INDUSTRIES LTD. is designed to assess the company's adherence to the environmental management measures outlined in its Environmental Impact Assessment (EIA) report. The audit will evaluate the effectiveness of mitigation strategies, ensuring that adverse environmental impacts are minimized and that operations are sustainable. It also aims to verify compliance with environmental regulations at the local, state, and national levels. The audit includes a thorough review of the company's Environmental Management Plan (EMP), air and water quality management, waste disposal practices, and resource conservation efforts. By examining these aspects, the audit ensures that the company remains environmentally responsible and maintains sustainable practices throughout its operations.

M/s Kanishk Steel Industries Limited has a robust installed capacity for various steel products. The plant is operating in a leased land area 3.015 ha (7.45 acres) which features 1 x 7 MT/Heat and 1 x 10 MT/Heat induction furnace to produce MS Ingots. The manufacturing capacity of steel melting plant is 83,000 TPA of MS Ingots/MS Billets and the manufacturing capacity of rolled steel Products/Structurals is 76,000 TPA. This diverse production capacity allows the company to meet market demand across multiple segments in the steel industry.

The manufacturing process of the steel products at M/s Kanishk Steels Industries Limited involves the following steps:

1.2 Manufacturing Process for M.S. Billets:

1. Melting: Scrap steel is melted in an induction furnace at a temperature between 1650°C and 1700°C.
2. Slag Removal: The slag is removed from the molten metal.
3. Addition of Additives: Necessary additives are added to the molten metal.
4. Pouring into Ladle: The molten metal is then poured into a ladle for further processing.
5. Shifting to Continuous Caster: The molten metal is transferred to a continuous caster for casting into billets.
6. Cutting of Hot Billets: The hot billets are cut into desired lengths for further processing.

Continuous Casting of Steel

1. The Liquid steel from the electric induction furnace is tapped in a ladle and taken to the
2. Continuous Casting Machine.
3. The ladle is raised onto a turret that rotates the ladle into the
4. Casting position above the tundish.
5. Liquid steel flows out of the ladle into the tundish and then into a water-cooled copper mould. Solidification begins in the mould and continues through the first zone and strand guildes. In this configuration the strand is straightened, torch-cut, then discharged for intermediate storage or hot charged for finished rolling.

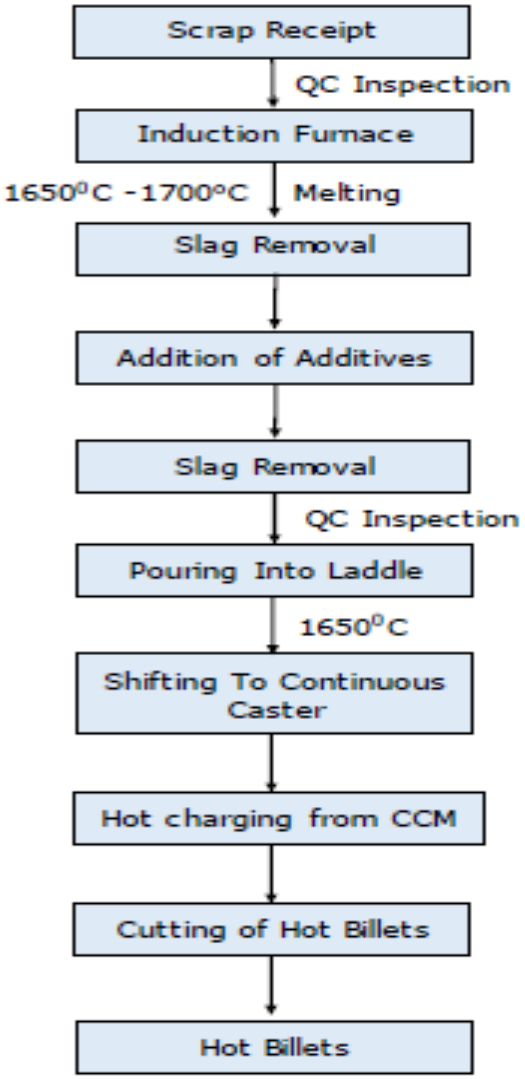


Figure 2: Process Flow Chart–M.S BILLETS

1.3 Manufacturing Process for Re-rolled Steel Products:

1. Direct Charging Technology: Alternatively, hot billets are directly charged into the rolling mill from the Continuous Casting Machine (CCM) to minimize fuel usage and gaseous emissions.
2. Rolling: The billets are rolled at a temperature of 1100-1200°C into steel products of the desired dimensions.
3. Cooling: The rolled steel products are passed through a cooling bed or water quenching bed for further processing.

TMT Mill Process:

1. Quenching: The hot rods are rapidly quenched using a special water spray system, forming a hard outer surface while the core remains hot.
2. Self-Tempering: The rods are exposed to air, causing the outer layer to temper while maintaining core heat.
3. Cooling Bed: The rods undergo final cooling, resulting in a structure with a hard outer layer and a ductile core, providing high yield strength and toughness.

Section Mill Process:

1. Bending: Billets are progressively bent into complex shapes, such as angles, flats, and channels.
2. Final Product: The bent metal passes through the cooling bed, forming the final product, which is then cut to the required lengths and inspected.

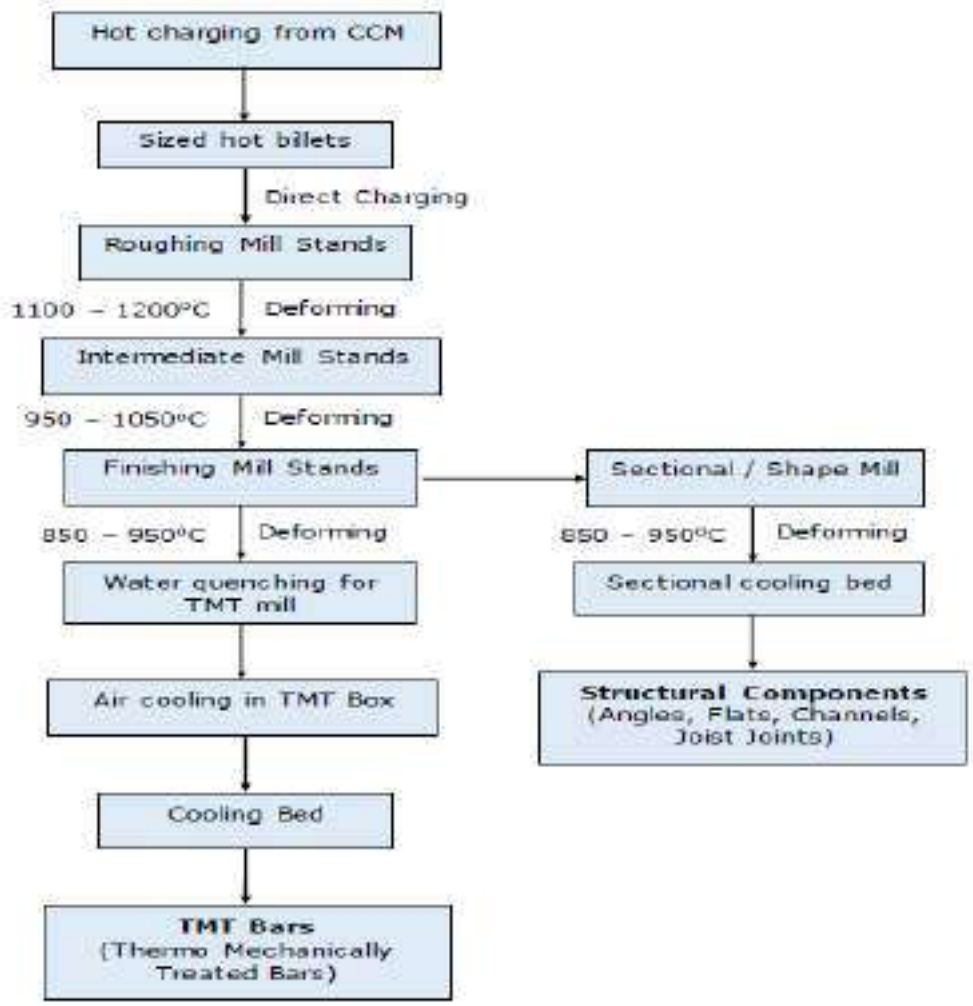


Figure 3: Process Flow Chart–STEEL RODS

Production and Raw Materials

The installed manufacturing capacities for our main products are significant, with steel melting plant is 83,000 TPA of MS Ingots/MS Billets and the manufacturing capacity of rolled steel products/Structurals is 76,000 TPA. These capacities vary based on market demand and operational requirements. The raw materials used include IS Scrap, Sponge Iron, Silicon Manganese, Ferro Manganese, and Aluminium, with detailed quantities specified per day to support our manufacturing processes.



Figure 4:Raw Material Storage



Figure 5: Raw Material Transport



Figure 6: Manufactured Products

1.4 Water and Wastewater Management:

The facility's water requirement is categorized into industrial and domestic uses, with a total demand of 45.25 KLD. The domestic sewage (8.75KLD) generated is treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.9 KLD from the STP used for greenbelt development. The wastewater from the cooling processed is treated in the cooling pond followed by cooling tank and the treated water of 19 KLD re-circulated for the processes.The wastewater exhibits characteristics like moderate to high suspended solids, elevated temperatures, and varying chemical oxygen demand (COD) levels, depending on the process.

1.5 Sewage Treatment and Disposal:

An Sewage Treatment Plant (STP) having a capacity of 10 KLD is implemented to manage the Sewage, including sludge management through thickening and dewatering. The treated Sewage, particularly 7.9 KLD from the Sewage Treatment Plant (STP), is repurposed for green belt development, highlighting the facility's commitment to environmental sustainability.

1.6 Storm Water Management:

The facility has a separate storm water drainage system to prevent contamination from industrial and domestic sources. The system is designed to efficiently handle rainwater runoff, with provisions for regular maintenance, inspections, and water quality monitoring to ensure compliance with environmental standards.

1.7 Solid and Hazardous Waste Management:

Solid waste generated includes furnace slag, mill scale, ash, and STP sludge, with specific quantities and modes of disposal detailed, such as selling to contractors or re-melting in the induction furnace. Hazardous waste, including solar pan residue and oil-bearing cotton waste, is managed through collection and transport to the Common Treatment, Storage, and Disposal Facility (CTSDF) in Gummidipoondi.

1.8 Air Emissions and Control:

We have provided suitable Air pollution control measures Such as Bag filter to furnaces 7T & 12T are provided. Adequate stack height 32m respects to the 7T Induction Furnace and 12T Induction Furnace provided which is operated by electricity as fuel. We will provide the scrubber whenever there is a gaseous emission from the Reheating furnace i.e. utilization of coal operated furnace. The facility uses fuels like low sulfur high-speed diesel for DG Set operations and its silent Green Generator (No Stack) are provided to DG set for controlling noise pollution.

Stacks No.	**After Expansion**			
	Stack – 1	**Stack - 2**	**Stack – 3**	**Stack-4**
Material of Construction	M.S	M.S	M.S	M.S
Stack attached to	Induction Furnace (10 T/Heat)	Induction furnace (12 T/Heat)	DG Set 500 KVA	Reheating Furnace – I
Stack height Above the ground level, m	32.0	32	9.0	32.0
Inside dimensions of the stack at top, m	0.60	0.60	0.25	0.60
Gas quantity – m^3/hr	20,664	20,160	3,735	19,152
Exit velocity of the gas, m/s	25	25	25	25
Flue gas temperature, ^{o} C	90	100	85	120
Sulphur content (% w/w)	0.055	0.055	0.1	0.85
Pollution control measures	Bag Filters with stack	Bag Filters with stack	Acoustics enclosures with stack	Wet scrubber with stack
Emission rate g/s				

PM	0.29	0.28	0.05	0.27
SO2	1.29	1.41	0.71	2.23
NOx	0.29	0.28	0.05	0.27



Figure 7: Air pollution control measures at Furnaces

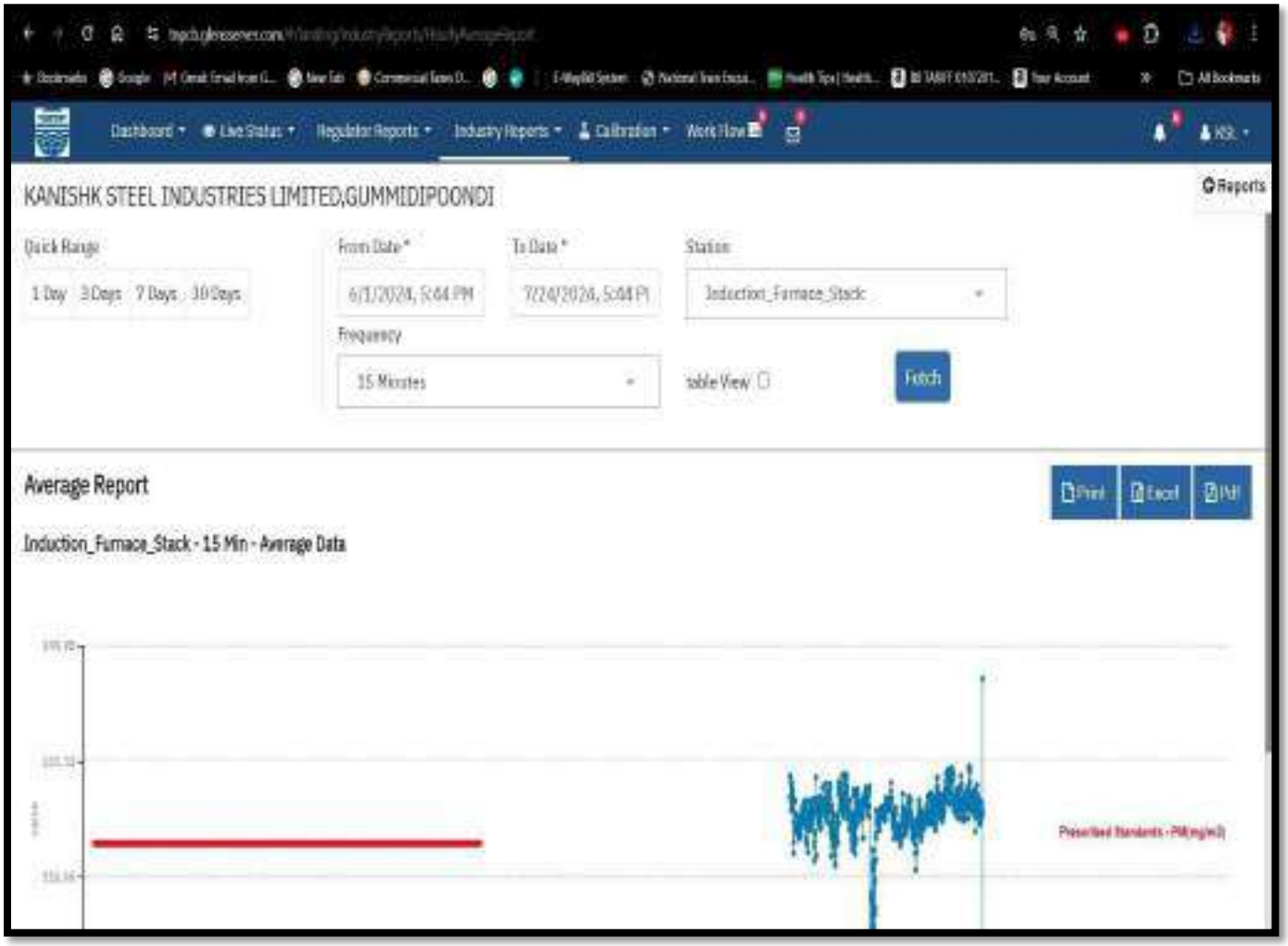


Figure 8: Air pollution control measures at Furnaces

Fugitive Emissions:

The facility also monitors and controls fugitive emissions from various activities, identifying potential air contaminants and their sources, ensuring that any leaks or emissions are promptly addressed to minimize environmental impact.

1.9 Products Manufactured

Table 1: Table of Products Manufactured:

Name of the Product	Installed Capacity (T/A)	Average Production (T/A)	No. of. days of prod per year	Remarks
Re-rolled Products/Structurals	76,000	Varies based on demand	365	Capacity is based on total annual production; varies with market demand.
MS Billets	83,000	Varies based on demand	365	Total capacity includes both existing and expanded production.

1.10 Water requirement:

Table 2: (a) Industrial (product-wise)

Name of the Product	Process operation where water used	Quantity used. Kl	
		Per day	Per t of Product
Re - rolled products/structurals	**Rolling Mill and Cooling**	**33 KL**	Varies by production volume
MS Billets	**Casting and Cooling**		

Table 3: (b) Total Water Requirement

Particulars	**Water Requirement (KLD)**
Domestic	8.75
Machinery Cooling	33
Scrubber Make-up	3.5
Total Water requriment	45.25

1.11 Wastewater Generated

Table 4: (a) Industrial

Sr. No.	Description	Quantity in KLD	Treatment
1	Sewage	7.9	Existing STP 10 KLD
2	Blow down	19.0	Cooling tower and recycled to back to process

Table 5: Details f STP Components

Sr. No.	Components	Dimension (in meters)
1	Sewage transfer pump	1HP
2	Air Blower- in C.I	Twin lope – 2 Nos.25m3/hr
3	Disc diffuser-PP with EPDM	2 Nos.
4	Aeration Tank- in MS	1.5m x 1.5m x3.0m TD
5	Settling Tank – in MS	1.5m x 1.5m x2.5m (HOS)
6	Filter Feed pump	1 HP
7	Sludge drying beds – BW	1.0m x 1.0m x 1.0m TD-3 Nos.
8	Pressure sand filter – in MS	0.3m x 1.1m HOS
9	Activated carbon filter – in MS	0.25m x 0.9m HOS
10	UV system	2000 LPH
11	Treated water tank	1000 L

Source: KSIL, Gummidipoondi

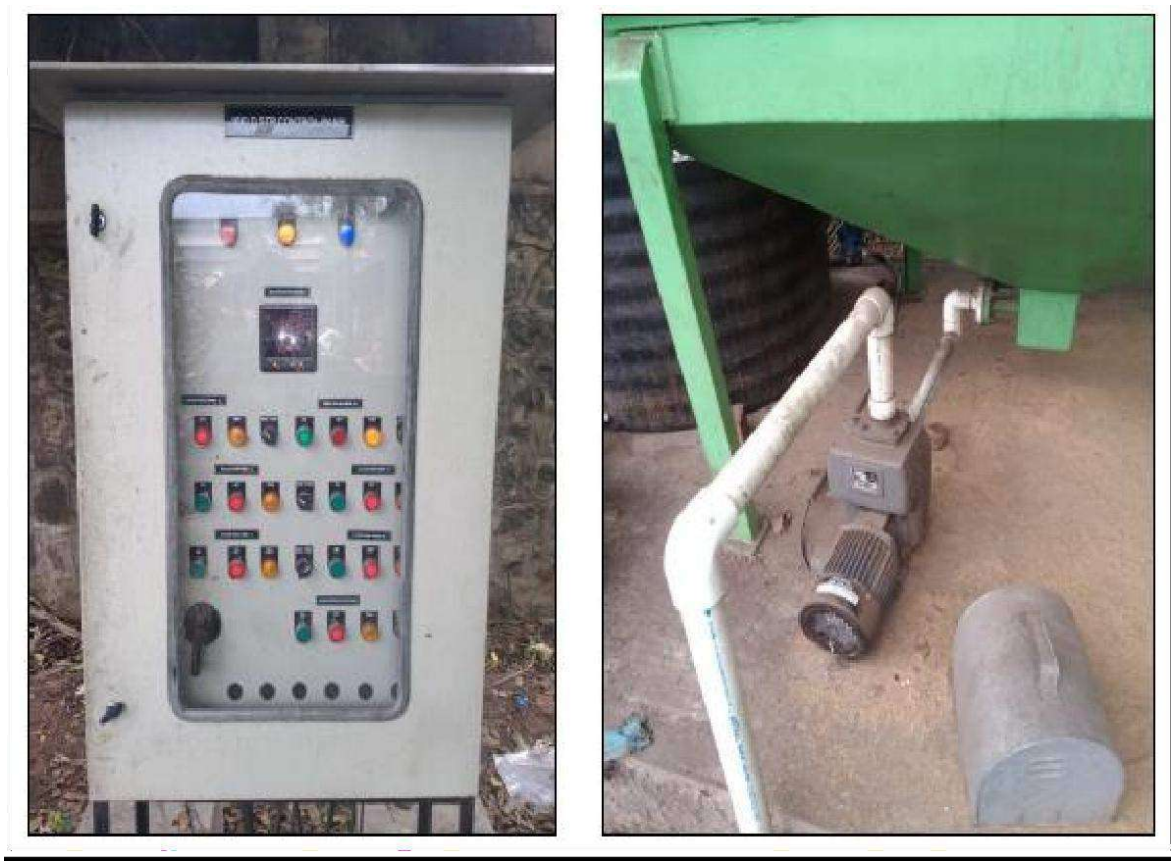


Figure 9: Waste Water Treatment Plant OF 10MLD



Figure 10: Treatment Process







Figure 11: Sludge Drying Bed

Table 6: (a) Characteristics of combined Wastewater

Sr. No.	Parameters	Units	Un-Treated	Treated	TNPCB Desirable Limits
1.	BOD	mg/l	300	<10	10
2.	COD	mg/l	500	<100	50
3.	Total Suspended Solids	mg/l	120	<10	20
4.	Total Dissolved Solids	mg/l	1300	1294	2100
5.	pH	-	6.5-7.5	7.0-7.5	5.5 - 9.0
6.	Oil & Grease	mg/l	5.0	<1.0	10
7.	Colour	Visual	Light Brown	Colourless	Colourless

1.12 Solid Waste

Table 7: (a) Table of Solid Waste

S. No	Solid Waste	Quantity (TPA)	Treatment of Disposal
1	Furnace slag	12,700	Sold out to contractors
2	CCM Scale	510	Sold out to contractors
3	Retumable scrap	5,572	Remelted in induction furnace
4	Runner and riser	-	Remelted in induction furnace
5	Millscale	1,600	Sold out to contractors
6	Cobbles	830	Remelted in induction furnace
7	End cuttings/Misrolls	1,570	Remelted in induction furnace
8	Ash	-	Sold to ash bricks manufactures
9	STP Sludge	1.34	Dried and used as manure for greenbelt
10	Municipal waste	28	Will be collected by Civic bodies

Table 8: (b). Hazardous waste

Source	Composition	Quantity (MT/Year)	Mode of Collection	Mode of Disposal
Oil bearing cotton waste	33.2	0.06	0.3	Collected and transported to CTSDF, Gummidipoondi
Bag Filter Zinc duct		-	480	Sent approved recycler

1.13 Details of Emission Generated

Table 9 : (a) Process Emission (Product wise)

Stacks No.	**After Expansion**			
	Stack – 1	**Stack - 2**	**Stack – 3**	**Stack-4**
Material of Construction	M.S	M.S	M.S	M.S
Stack attached to	Induction Furnace (10 T/Heat)	Induction furnace (12 T/Heat)	DG Set 500 KVA	Reheating Furnace – I
Stack height Above the ground level, m	32.0	32	9.0	32.0
Inside dimensions of the stack at top, m	0.60	0.60	0.25	0.60
Gas quantity – m^3/hr	20,664	20,160	3,735	19,152
Exit velocity of the gas, m/s	25	25	25	25
Flue gas temperature, ° C	90	100	85	120
Sulphur content (% w/w)	0.055	0.055	0.1	0.85
Pollution control measures	Wet scrubber with stack	Wet scrubber with stack	Acoustics enclosures with stack	Wet scrubber with stack
Emission rate g/s				
PM	0.29	0.28	0.05	0.27
SO2	1.29	1.41	0.71	2.23
NOx	0.29	0.28	0.05	0.27

Indicate the operation in the reactor, incinerator, flare, furnace. etc Attach drawings of air pollution control systems along with design data Based on actual monitoring

Table 10 : (b) Emission from combustion of fuel viz. coal, firewood, furnace oil etc.

Fuel Used		**Purpose**	**Type of Control Equipment provided**	**Gas flow in Stack Mg/Nm3**	**Cone of SPM/SO2 in Stack/Vent Mg/Nm3**	**Stack height from Ground Level in m**
Type	**Qty (kg/hr,day)**					
Low Sulphur High Speed Diesel (HSD)		Power Generation (Diesel Generator)	Acoustic enclosures. Its silent Green Generator (No Stack)	Varies with load	SPM: 0.05 Mg/Nm^3 SO_2: 0.02 Mg/Nm^3	9m

1.14 Ambient air quality in the factory premises

The ambient air quality with respect to the study area zone of 10 km radius around the plant site forms the baseline information. The various sources of air pollution in the region are industrial and vehicular traffic. The prime objective of the baseline air quality study was to assess the existing air quality of the area. This will also be useful for assessing the conformity to standards of the ambient air quality during the plant operation.

This section describes the selection of sampling locations, methodology adopted for sampling, analytical techniques and frequency of sampling. The ambient air quality was monitored at locations in and around the plant site. The monitoring was carried out for study period from March 2024 to May 2024. The air quality monitoring was conducted as per NAAQ standards, 2009.

Presentation of Primary Data

The AAQ survey results for the three months study period (March to May 2024) are presented in Annexure - IV. Various statistical parameters like 98th percentile, average, maximum and minimum values have been computed from the observed raw data for all the AAQ monitoring stations. The summary of these results for each location is presented in Table - 3.15. These are compared with the standards prescribed by Central Pollution Control Board (CPCB).

- **Summary of Observations**

The observations based on summa ry of ambient air quality results are summarize d below:

1) PM_{10}:

The maximum and minimum concentrations for PM10 were recorded at as 66.9 µg/m3 and 46.2 µg/m3 respectively. The maximum concentration was recorded at Plant site (AAQ 1) and the minimum concentration was recorded at Enadhimelpakkam (AAQ 8). The average concentrations were ranged between 50.9 and 63.6 µg/m3 .

2) $PM_{2.5}$:

The maximum and minimum concentrations for PM2 .5 were recorded as 25.2 µg/m3 and 12.5 µg/m3 respectively. The maximum concentration was recorded at Plant site (AAQ 1) and the minimum concentration was rec orded at Enadhimelpakkam (AAQ 8) .The average values were observed to be in the range of 15.1 – 22.7 µg/m3 .

3)SO_2:

The maximum and minimum concentrations of SO2 were recorded as 20.6 µg/m3 and 12.2 µg/m3 . The maximum concentration was recorded at Plant site (AAQ 1) and the minimum concentration was recorded at Enadhimelpakkam (AAQ 8). The average values were observed to be in the range of 19.5 – 12.2 µg/m3.

4)NO_2:

The maximum concentration of 155 µg/m3 was recorded at Enadhimelpakkam (AAQ 8) and minimum concentration was of 14.7 µg/m3 observed at Iyarkandigai (AAQ7). The average concentrations were in the range of 16.6- 22.4 µg/m3 .

5)CO:

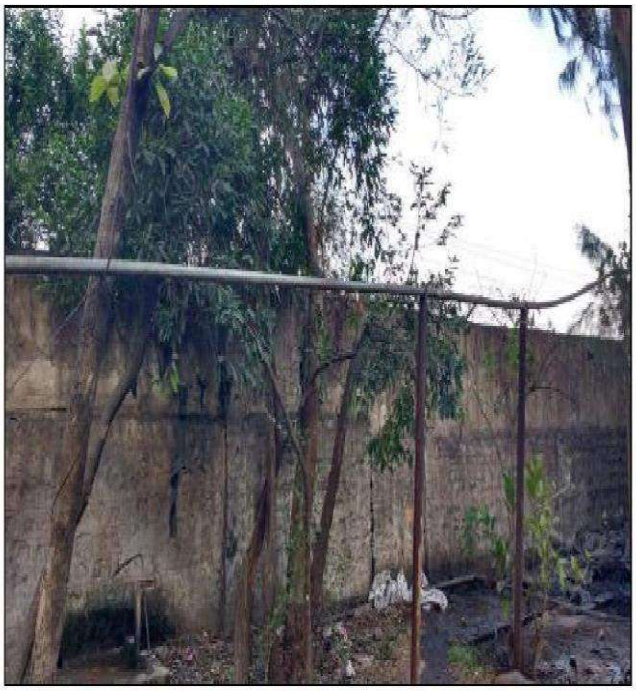
The maximum concentration of 0.8 µg/m3 was recorded at Plant site (AAQ 1) and minimum of 0.1 µg/m3 was observed at AAQ 2, AAQ 3, AAQ 5, AAQ 7 and AAQ 8. The average concentrations ranged between 0.1 – 0.6 µg/m3 .

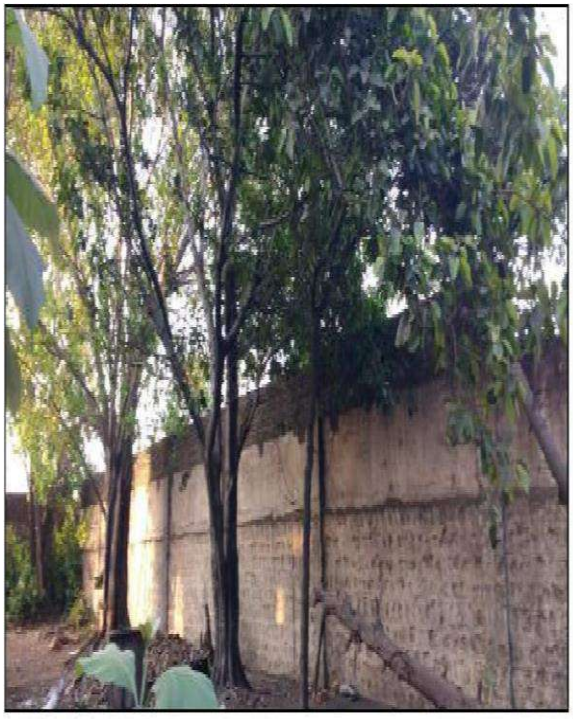
The concentrations of PM10 , PM2 .5, SO2 , NOX and CO are observed to be well within the standards prescribed by Central Pollution Control Board (CPCB) for Industrial, Rural, Residential and Other areas.

Figure 12: Photographs of Existing Green Belt

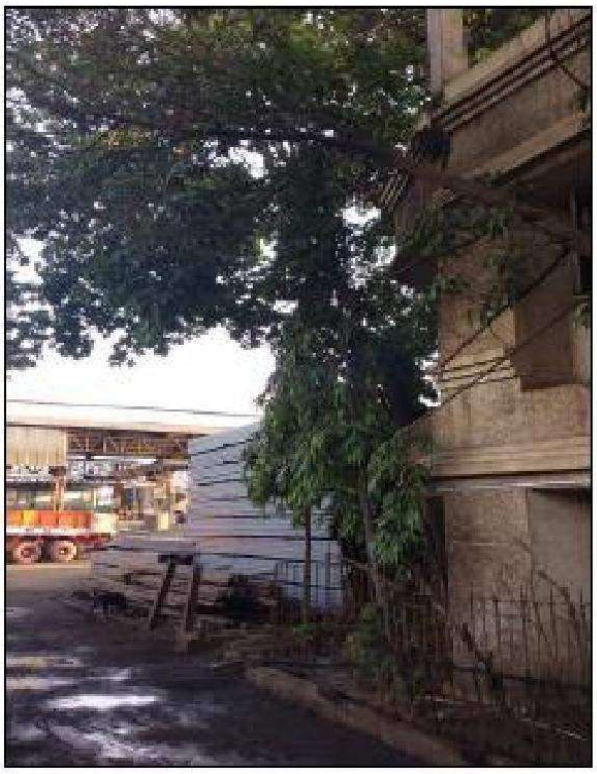












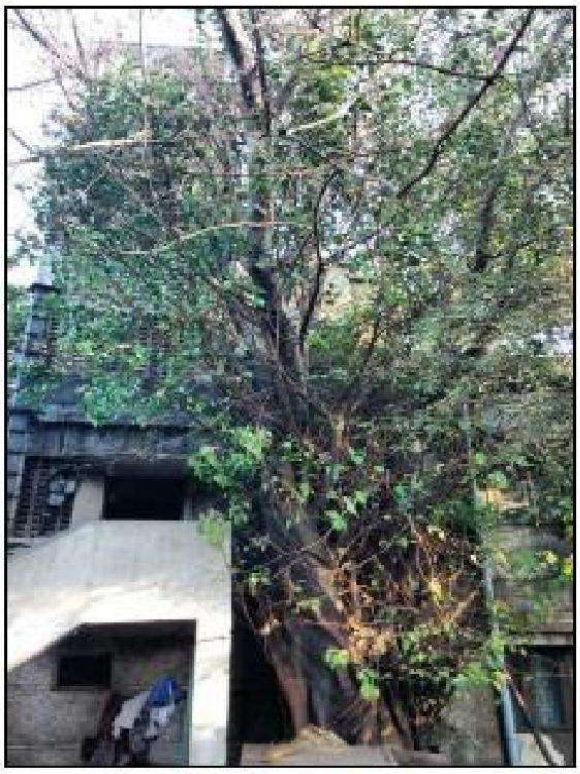


Table 11 : Details of Trees

Sr. No.	Name of the Trees	Numbers of Trees
1	Banyan Tree	2
2	Mast Tree	12
3	Neem Tree	2
4	Mango Tree	4
5	Tamarind Tree	2
6	Ficus Religiosa Tree	9
7	Coconut Tree	9
8	Teakwood Tree	27
9	Almond Tree	9
10	Palm Tree	4
11	Guava Tree	1
12	Andrographic Paniculata Tree	10
13	Portia Tree	5
14	Pungai Tree	10
15	Mahogary	120
16	Badam Tree	5
17	Other Trees	25
Total		**256**

Source: KSIL, Gummidipoondi.

1.15 Standards and other conditions laid down by the State Pollution Control Board under the Water Act. Air Act. and Environmental(Protection) Act are complied with ?

Act	Has valid consent/ Complying with stds. authorisation and other conditions	
The Water Act. 1974	**Yes**	**Yes**
The Air Act. 1981	**Yes**	**Yes**
The E (P) Act. 1986	**Yes**	**Yes**

1.16 Organisational set up for Environmental Management

The steel melting plant and rolling mill will be supervised and controlled by the Board of Directors supported by department managers and the adequate team of technically and statutorily qualified personnel apart from the operating staff of skilled, semi-skilled, unskilled and other categories. As conscious of this, KSIL will create an Environment Management Cell consisting of officers from various disciplines to co-ordinate the activities concerned with the management and implementation of the environmental control measures.

Environment Management Cell will be headed by a Board of Directors and will constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell is presented in **Figure 14.**

General Manager will be coordinating the environmental activities and reporting to the plant Head. The Manager will be headed by the GM. The responsibility of Manager is to conduct the post project monitoring, regular performance evaluation of pollution control equipment and developing and maintaining the greenbelt within the plant premises and in general ensure regulatory compliances as well as planning for further improvement. The Manager will be supported by safety officer, Environmental Engineer and Finance & Administrationofficer.

Chemists are headed by Environmental Engineer. Chemists are assigned the analysis work in the laboratory. The work of statistical analysis of the results is assigned to Associate Managers. Chemists are responsible for the collection of samples, conduct field studies for ambient air quality monitoring and conduct stack monitoring.

The Environment Management Cell will also co-ordinate all the related activities such as collection of statistics of health of workers and population of the region, afforestation and green belt development.

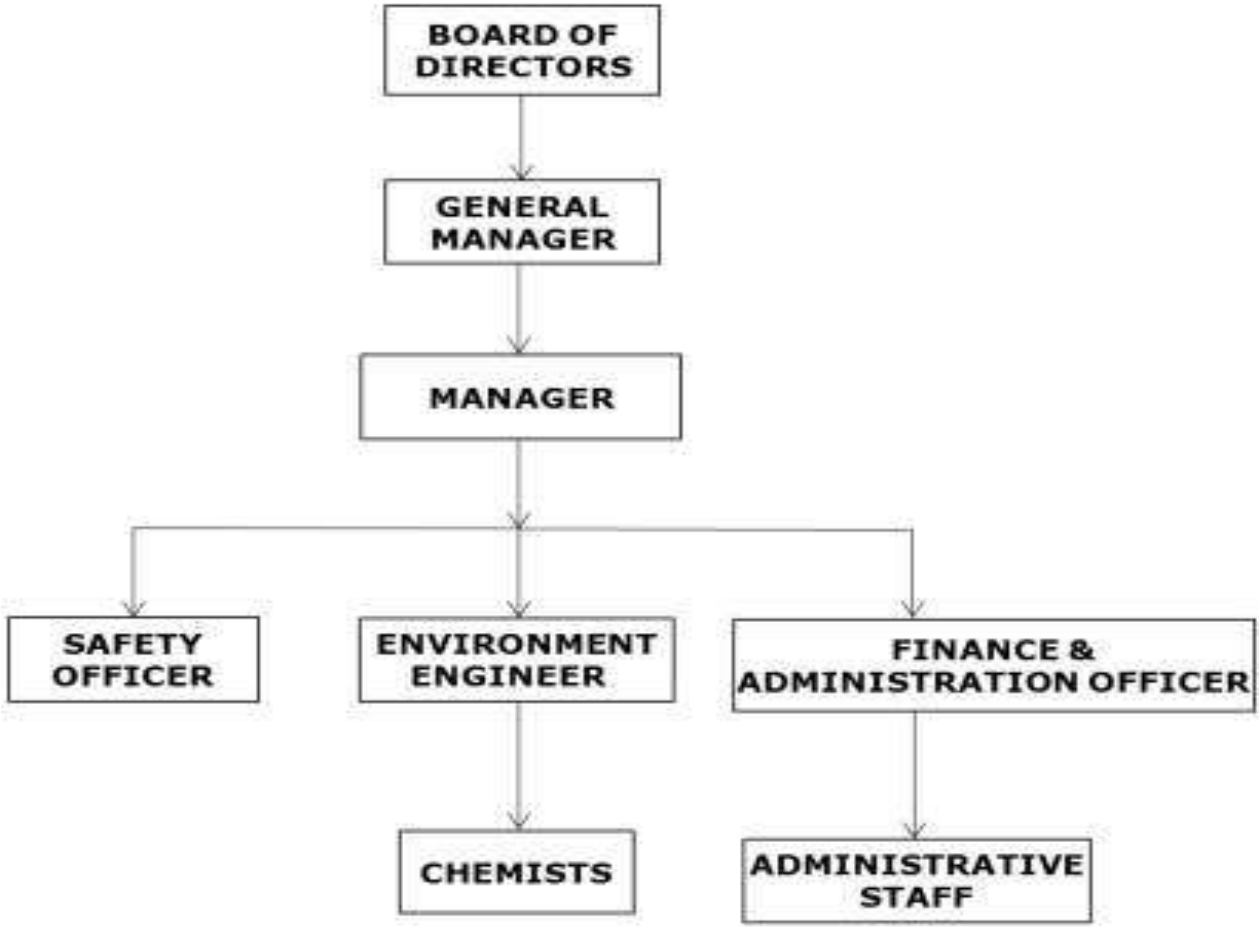


Figure 13: Organizational Structure of Environment Management Cell

1.17 Cost of Pollution Control

Table 12 : Table of Cost of pollution Control

SI.NO.	Description of Items	Cost (Rs. in Lakhs)
(a)	**Fixed cost of Air pollution control system (PCS)**	115
(b)	**Fixed cost of Water pollution control system (PCS)**	40.9
(c)	**Environmental Monitoring**	R4.96
(d)	**Green Belt development, Rainwater harvesting and other**	11.14
(e)	**Recurring Cost**	7
	Total	176

23.	**Are there any public complaints against pollution from your industry ? If yes. give details.**	**No**
24.	**Details of green belt/plantation:**	Green Belt area-1,336 Sq.m (33%) The facility has developed a green belt area of 1,336 square meters, which constitutes 33% of the total site area.
25.	**Problems faced by the industry in pollution control**	◆ Compliance with Evolving Regulations. ◆ High Cost of Advanced Technologies. ◆ Waste Management Complexity. ◆ Operational Challenges. ◆ Technological Limitations. ◆ Public and Environmental Health Concerns.
26.	**Name of the contact person with designation and telephone No:**	**Ashok Bohra, Director Cell Phone: 9940048723**

Signature:

Name: Ashok Bohra

Designation: Director

Date:

Place:

ATTACHMENTS

1. Summary of Six Monthly Compliance Report

As per EIA Notification 2006 and reference Environmental Clearance Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020. Period of EC Compliance is prepared for October 2023 to March 2024 .We are herewith submitted six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period October 2023 to March 2024.

Six monthly Environmental Clearance (EC) Compliance report is prepared for the period October 2023 to March 2024 and below are the described details of conditions stipulated in EC clearance with compliance status.

M/s. Kanishk Steel Industries Limited ensures environmental compliance and sustainability through several key measures. M/s KSIL industry total land use 4.98% is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. The internal roads at the site are cemented and equipped with water sprinkling systems to control dust, while raw materials are stored in a designated enclosed shed for the storage of raw material to prevent dust pollution and other fugitive emissions control measures are implemented throughout the facility. Proper housekeeping is done and all the raw material including scrap, coal etc., are stored at designated places. The industry operates two furnaces, each fitted with Suitable Air pollution control measures Such as Bag filter to furnaces7T & 12Tare provided Adequate stack height 32m respects to the 7TInduction Furnace and 12T Induction Furnace provided and to manage emissions and meet air quality standards set by the CPCB and MoEF & CC. Additionally, each furnace is equipped with an online emission monitoring system connected to the CARE AIR center of TNPCB. Further Ambient Air Quality monitoring for the parameters PM 10,PM 2.5 , SO2, NOx are carried by TNPCB labs survey dated 02/07/2024.

The STP, with a capacity of 10 KLD, efficiently treats the sewage generated, and treated effluent from cooling water is recycled back into the manufacturing process. The Sewage Treatment Plant (STP) at M/S KSIL operates continuously, adhering to the treated sewage standards prescribed by CPCB and TNPCB.

The company generates no toxic chemicals; instead, the byproduct slag is neutral and stored separately, mitigating any potential environmental impact. There is no Solar Evaporation Pan residue because the facility utilizes bag filters for emissions control and does not produce scrubber effluent, eliminating the need for Solar Evaporation Pans.

Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print. The greenbelt area for 33.17% of total land which has area of 1.0ha developed into a greenbelt with native trees, enhancing the environmental sustainability of the facility. Rain Water Harvesting percolation pits constructed along the periphery of the plant for ground water recharge from rain water.

Safety measures are robust, with a safety audit conducted and training programs provided through the Directorate of Industrial Safety and Health (DISH) of the Government of Tamil Nadu.

M/s. Kanishk Steel Industries Limited has signed an MoU with HNX Healthcare Pvt. Ltd. for the management of health checkup, outpatient, and inpatient facilities for both current and retired employees and their dependents. Water supply is secured through an agreement with SIPCOT, and cooling water is recycled within the manufacturing process. Scrubbers and Effluent Treatment Plants (ETPs) will be installed as needed when effluents are generated.

The project does not fall under the Forest (Conservation) Act, 1986, and necessary NOCs have been obtained from the Principal Chief Conservator of Forests and Chief Wildlife Warden of Chennai.

The Consents for establishment and operation under the Water (Prevention & Control of Pollution) Act, 1974, and the Air (Prevention & Control of Pollution) Act, 1981, have been granted by TNPCB, with specific orders dated 22/04/2022 and 08/12/2023, respectively.

The Consent to Operate for M/S KSIL has been duly obtained under the relevant environmental regulations. Specifically, under the Air (Prevention and Control of Pollution) Act, 1981, the proceedings are documented as No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023, dated 08/12/2023. Similarly, under the Water (Prevention and Control of Pollution) Act, 1974, the proceedings are recorded as No. T1/TNPCB/F.0119GMP/OL//GMP/A/2023, also dated 08/12/2023. These consents have been issued by the Tamil Nadu Pollution Control Board (TNPCB), and a copy has been provided to the State Environmental Impact Assessment Authority (SEIAA) of Tamil Nadu.

Hazardous Waste Authorization from TNPCB, valid until 31/03/2027, was also secured with proceedings dated 30/08/2022. The industry focuses solely on manufacturing steel components and does not involve the manufacture, storage, or import of hazardous chemicals.

The Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers .

The storm water from the premises collected and discharged through as separate Storm Water drain maintained and Zero liquid discharge maintained. All our water is recycled except for evaporation losses.

Air pollution Control measures of Acoustic enclosures it's silent Green Generator (No Stack) are provided to DG set for controlling noise pollution. TNPCB survey conducted on date 02/07/2024 Noise levels are within the standards prescribed.

Risk assessment study conducted on-site emergency preparedness plan available at site and As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety . Occupational health surveillance of the workers are done on a regular basis and Records are maintained as per the Factories Act.

Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.4655 lakhs have been spent.

M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out, as proposed and committed. Regular monitoring carried out during operation phases.

Environmental management is overseen by an Environment Management Cell, which includes a Board of Directors, a General Manager, Environmental Engineer, Safety Officer, Chemists, Administrative Staff, and officers. The company has invested approximately Rs. 176 Lakhs in its Environmental Management Plan (EMP) and incurs a recurring cost of Rs. 11.14 Lakhs for pollution control, greenbelt development, rainwater harvesting, and environmental monitoring, all funded through company resources.

The CSR activities for the amount of 43.2254 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like

M/s. Kanishk Steel Industries Limited undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages.

- Enhanced library facility for Pedikuppam Govt. School
- Provision of educational Kits and accessories to nearby Govt. School.
- Safe drinking water for nearby Villages.
- CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby.
- Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.

M/s. Kanishk Steel Industries Limited is submitted Environmental Statement for each financial year ending 31st March in Form V is submitted on (25th January 2022 & Period 2023-2024) to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently .

2. Environmental Clearance of M/s. Kanishk Steel Industries Limited

Thiru.K.V.GIRIDHAR, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No. 6430/EC/ 3(a)/ 78/2020 dated:10.11.2020

To

M/s. Kanishk Steel Industries Ltd
S.F.No.B27, (N.M.S) , SIPCOT Industrial Complex,
Peddikuppam Village,
Old Gummidipoondi Taluk,
Tiruvallur District.

Sir,

Sub: SEIAA-TN– Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance - Category B1 & Schedule item lo. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) - Issued – Regarding.

Ref: 1. Terms of Reference issued vide SEIAA Lr. No.SEIAA/ F.No.6430/2017/ 3(a)/ KSI/TOR-292/2017, Dated: 15.11.2017.
2. EC Application along with EIA Report date 29.08.2019.
3. Minutes of Public hearing from TNPCB dated: 09.07.2019.
4. Minutes of the 140th Meeting of SEAC held on 10.12.2019

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MEMBER SECRETARY
SEIAA-TN

5. Minutes of the 173rd Meeting of SEAC held on 10.09.2020.
6. Minutes of the 402nd Meeting of SEIAA held on 07.10.2020.
7. Minutes of the 404th Meeting of SEIAA held on 14.10.2020.

This has reference to your Environmental Clearance application dated 06.12.2018 applied to SEIAA-TN and subsequent communication on the above mentioned subject by M/s. Kanishk Steel Industries Ltd for the Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu under Item No. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) & Category 'B1'of the Schedule to the EIA Notification, 2006.

1. The project proponent M/s. Kanishk Steel Industries Ltd applied seeking Terms of References on 15.11.2017 to SEIAA for Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu .
2. Terms of Reference (ToR) was issued vide SEIAA Letter No:SEIAA-TN/F.No.6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017.
3. Based on the ToR issued vide SEIAA , the proponent prepared the EIA report and submitted the same to SEIAA-TN on 29.08.2019.
4. The proposal (EIA report) was placed in the 173rd meeting of SEAC held on 10.09.2020. The SEAC decided to recommend the proposal for the grant of Environmental Clearance to SEIAA – TN subject to certain conditions.
5. The subject was placed before 404th meeting of SEIAA held on 14.10.2020. SEIAA after careful consideration decided to issue Environmental Clearance subject to terms and conditions stipulated under the provisions of Environment Impact Assessment

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MEMBER SECRETARY
SEIAA-TN

1	(i)	Name of the Project:	i) Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited.
	(ii)	Date of Application submission to SEIAA:	ii) EC Application along with the EIA Report Dated:29.08.2019.
2	Name of Sector:Schedule No(in the EIA Notification,2006)		Schedule S.No. 3(a) of Category "B1" – Metallurgical Industries (Ferrous & Non - Ferrous)
3.	New Project/ Expansion		Expansion Project
4	Name of the Applicant/Project Proponent		M/s. Kanishk Steel Industries Limited.
5	(i)	Project	Plot No. B-27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamilnadu.
	(ii)	Co-ordinates (lat-long) of all four corners of the site	S.No / Latitude / Longitude: 1. 13°25'.079"N 80° 7'.154"E; 2. 13°25'.069"N 80° 7'.235"E; 3. 13°24'.971"N 80° 7'.229"E; 4. 13°24'.972"N 80° 7'.137"E
	(iii)	Whether any GO attracted	No.

SEIAA TN

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MEMBER SECRETARY
SEIAA-TN

<table>
<tr><td>6</td><td>(i)Area of the Site(in Sq.m)</td><td>3.015 Ha (7.45 acres)</td></tr>
<tr><td></td><td>(ii)Land use are(in Sq.m)</td><td>
<table>
<tr><th>Description</th><th>Area (Sq.M)</th><th>Percentage (%)</th></tr>
<tr><td>Factory shed area</td><td>0.9</td><td>29.85</td></tr>
<tr><td>Scrap area</td><td>0.55</td><td>18.24</td></tr>
<tr><td>Product storage area</td><td>0.15</td><td>4.98</td></tr>
<tr><td>Greenbelt Development</td><td>1</td><td>33.17</td></tr>
<tr><td>Road</td><td>0.37</td><td>12.27</td></tr>
<tr><td>Open space area</td><td>0</td><td>0.00</td></tr>
<tr><td>Solid waste storage area</td><td>0.045</td><td>1.49</td></tr>
<tr><td>Total area</td><td>3.015</td><td>100</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>Land use Classification as per Record</td><td>Industrial Land use Zone (SIPCOT, Gummidipoondi)</td></tr>
<tr><td>8</td><td>TOR issued? (If yes then specify the details)</td><td>Yes. Terms of Reference (ToR) issued vide SEIAA Lr. No. SEIAA/F.No.6430/2017/3(a)/KSI/TOR-292/2017, Dated: 15.11.2017 & Dated 09.07.2019 with Public Hearing.</td></tr>
<tr><td>9</td><td>Waterbodies within 10km radius</td><td>The project site is located within 10km , Thamari Eri – 0.4km, Murugan pond – 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond – 1.7km (south).</td></tr>
<tr><td>10</td><td>Distance from Protected areas /Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.</td><td>The prior clearance from Forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife if required.</td></tr>
</table>

MEMBER SECRETARY
SEIAA-TN

11 Production Details

Sr. No	Products	Quantity (TPA)	
		Existing	After Expansion
I	*Main Products*		
1	Re-rolled products/ Structurals	54,000	76,000
2	MS Ingots	6,000	-
II	By products		
1	MIS Rolls	2,160	N/A
III	Intermediate Products		
1	MS Ingots	36,000	-
2	MS Billets	-	83,000

List of Raw Materials & Source

S. No	Name of Raw Materials	Sources of Raw materials	Number of Trucks/Day	Mode of Transport
	Steel Melting Unit			
1	MS Scrap	96,000	Sweden, Malaysia, UK, New Zealand, Gummidipoondi	By ship followed by road transport
2	Sponge Iron	4,800	Local suppliers from Gummidipoondi	By road through covered trucks
3	Silicon Manganese	1152	Andhra Pradesh	By road through covered trucks
4	Ferro Manganese	48	Local suppliers from Gummidipoondi	By road through covered trucks
5	Aluminium	14	Andhra Pradesh	By road through covered trucks

10 Nov 2020

MEMBER SECRETARY
SEIAA-TN

<table>
<tr><td>14</td><td>Man-power Requirement</td><td>350 Employees</td></tr>
<tr><td>15</td><td>Total Water Requirement -45.25 KLD</td><td>Source of water – SIPCOT, Gummidipoondi
<table>
<tr><th>Particulars</th><th>Water Requirement (KLD)</th></tr>
<tr><td>Domestic</td><td>8.75</td></tr>
<tr><td>Machinery Cooling</td><td>33</td></tr>
<tr><td>Scrubber make-up</td><td>3.5</td></tr>
<tr><td>Total water requirement</td><td>45.25</td></tr>
</table></td></tr>
<tr><td>16</td><td>Sewage generation and treatment</td><td>The domestic sewage (8.75 KLD) generated from the proposed expansion project will be treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.5 KLD from the STP will be used for green belt development. The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 18.8 KLD will be re- circulated for the processes.
The scrubber effluent of 3.5 KLD will be treated in the existing Solar Evaporation Pan.
<table>
<tr><th rowspan="2">Sr. No</th><th rowspan="2">Description</th><th colspan="2">Quantity in KLD</th><th rowspan="2">Treatment</th></tr>
<tr><th>Existing</th><th>After Expansion</th></tr>
<tr><td>1</td><td>Sewage</td><td>5.5</td><td>7.9</td><td>Existing STP 10 KLD</td></tr>
<tr><td>2</td><td>Blow down</td><td>11.0</td><td>19.0</td><td>Cooling tower and recycled to back to process</td></tr>
<tr><td>3</td><td>Scrubber bleed</td><td>1.40</td><td>2.45</td><td>Solar Evaporation Pan</td></tr>
</table></td></tr>
<tr><td>17</td><td>Hazardous waste Management</td><td>a. Solar Pan Residue – 0.04 (Collected and Transported top CTSDF, Gummidipoondi)
b. Oil bearing cotton waste - 0.3 MT/year (Collected and Transported top CTSDF, Gummidipoondi)</td></tr>
</table>

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18 Other Solid waste

Non Hazardous

S.No.	Solid Waste	Quantity (TPA)	Treatment of Disposal
1	Furnace slag	12,700	Sold out to contractors
2	CCM Scale	510	Sold out to contractors
3	Returnable scrap	5,572	Remelted in induction furnace
4	Runner and riser	-	Remelted in induction furnace
5	Millscale	1,600	Sold out to contractors
6	Cobbles	830	Remelted in induction furnace
7	End cuttings/Misrolls	4,570	Remelted in induction furnace
8	Ash	-	Sold to ash bricks manufactures
9	STP Sludge	1.34	Dried and used as manure for greenbelt
10	Municipal waste	28	Will be collected by Civic bodies

19 Power requirement

Particulars	Usage	Existing	After Expansion	
Power requirement *Source:* TANGEDCO	Induction furnace, CCM, Rolling Mill, Other infrastructure usage	5.9 MVA	11.9 MVA	
Backup Facility				
DG Set	Lightings, Melting machineries	1 x 250 KVA	1 x 250 KVA	1 x 500 KVA
Fuel				
Low Sulphur – High speed Diesel *Source* Local bunks	Diesel Generator	80 Lit/hr	80 Lit/hr	160 Lit/hr
Thermal coal *Source*, Indonesia	Reheating furnace		-	

20 Storm Water Management

Storm water drains will be provided along the factory to ensure that this will be minimizing runoff of the contaminated water to the land surrounding the site.

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23	Rain Water Harvesting	9 Nos. of percolation pits will be constructed along the periphery of the plant for ground water recharge from rain water.
24	Green Belt Development	Green belt area – 1336Sq.m (33%)
25	Project cost	Rs. 4.0 Crores
26	EMP Cost(O&M)	Capital Cost: Rs.45.0 Lakhs Recurring Cost: Rs.7.0 Lakhs per annum.

Affidavit

The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that

We hereby propose and promise to the following developments and works at Gummidipoondi near our Factory;

1. Drinking – water provision at Ganganthotty Village by installing 2 heavy duty hand pumps including bore drilling and platform; Cost of 2 Numbers @ Rs.70,000/- each Rs. 1,40,000/-
2. Providing retaining walls to Government Elementary School at Ma Po Si Nagar, Gummidipoondi for a length of 2 Meters with 1.8 Meters wioth 1.8 Metre Height; Cost of construction including materials: Rs.3,60,000/-;
3. Provision of Toilets for the same school; 2 Number Toilets @ Rs.60,000/- each Rs.1,20,000/-;
4. Provision of 3 Number Toilets at Ganganthotty Village @ Rs.75,000/-, Rs.2,25,000/-;

The total cost works out to Rs.8,45,000/- in all.

Appraisal by SEAC:-

The project activity is of Category "B1" and comes under S.No.3 (a) in the Schedule of EIA Notification, 2006. The Proposal was appraised by the State Level Expert Appraisal Committee in the 96th meeting held on 31.10.2017, as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 and on the basis of the mandatory documents enclosed with the application. TOR was prescribed by the SEAC for EIA studies including Public consultation. Public consultation was held on 31.10.2018. Subsequently the proposal was

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a) Environmental Clearance Obtain details

Project Description:

Name of the Project: Steel melting plant and Rolling Mill having production capacity of 76,000 TPA of Re-Rolled Products/ Structural and 83,000 TPA of MS Billets.

Factory Name: M/s Kanishk Steel Industries Limited

Factory Address: Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District Pin:600004

Ref. No. Environmental clearance Letter No.: SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020

Name of Sector: Schedule No (in the EIA Notification,2006): Schedule S.No. 3(a) of Category "BI" - Metallurgical Industries (Ferrous & Non- Ferrous)

Co-ordinates (lat-long) of all four corners of the site are:

1. Coordinate 1: Latitude: 13°25'.079"NLongitude: 80° 7'.154"E
2. Coordinate 2: Latitude: 13°25'.069"NLongitude: 80° 7'.235"E
3. Coordinate 3: Latitude: 13°24'.971"NLongitude: 80° 7'.229"E
4. Coordinate 4: Latitude: 13°24'.972"NLongitude: 80° 7'.137"E

Terms of reference: SEIAA Letter No. SEIAA/F.No. 6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017 & dated 09.07.2019 with public hearing

Water body within 10km radius: The project site is Located within 10km.ThamariEri - 0.4km, Murugan pond - 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond - 1.7km (south).

Land use: Total area of land use is 3.015 Sq Km which corresponds to 100% of the project area.

Man Power for the project is 350 Employees

Water source: Water Source is from Sipcot, Gummidipoondi,

Total water required: Total water required is 45.25KLD.

Power Requirement:

The facility operates with a total power capacity of 11.9 MVA (Mega Volt Amperes), which is dedicated entirely to an induction furnace. Diesel generator set (DG Set) with a capacity of 500 KVA (Kilo Volt Amperes) and 250KVA DG sets are back-up power source. This DG set runs on low sulfur high-speed diesel, with a consumption rate of 160 liters per hour. This setup provides a reliable power solution for the induction furnace and an effective backup system to mitigate any potential disruptions.

Waste Water Generation and Treatment: The domestic sewage (8.75 KLD) generated is treated in the Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.9 KLD from

the STP is recycled for green belt development. The wastewater from the cooling processes 19 KLD is re- circulated for the process. The scrubber proposed in the expansion of Environmental Clearance will be installed whenever there is a generation gaseous emission.

The monitoring of Ambient Air Quality, Ambient Noise Level, Stack Emission etc. are being carried out through Tamil Nadu Pollution Control Board and the same is enclosed herewith in this report. The compliance status of conditions stipulated in the Environmental Clearance is provided below.

(b) CTO WATER ACT

Waste Water Generation and Treatment: The domestic sewage (8.75 KLD) generated is treated in the Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.9 KLD from the STP is recycled for green belt development. The wastewater from the cooling processes 19 KLD is re- circulated for the process. The scrubber proposed in the expansion of Environmental Clearance will be installed whenever there is a generation gaseous emission.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent - NILL			
1.	Cooling Tower Bleed Off	19.0	Used as Cooling Water Make up in Rolling Mill

(c) CTO AIR ACT.

Air Emissions and Control:

M/s KSIL provided suitable Air pollution control measures Such as Bag filter to furnaces 7T & 12T are provided. Adequate stack height 32m respects to the 7T Induction Furnace and 12T Induction Furnace provided which is operated by electricity as fuel. We will provide the scrubber whenever there is a gaseous emission from the Reheating furnace i.e. utilization of coal operated furnace. The facility uses fuels like low sulfur high-speed diesel for DG Set 250 KVA & DG Set 500KVA operations and its silent Green Generator (No Stack) are provided to DG set for controlling noise pollution.

I	Point source emission with stack :			
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm3/hr
1	Induction Furnace 7T	Bag Filters with stack	32	20664
2	Induction Furnace 12T	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
5	Coal fired reheating furnace	Wet scrubber with stack	30	36787
II	Fugitive/Noise emission :			
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

(d) HAZARDOUS WASTE ACT

Solid waste generated includes furnace slag, mill scale, ash, and STP sludge, with specific quantities and modes of disposal detailed, such as selling to contractors or re-melting in the induction furnace. Hazardous waste, including solar pan residue and oil-bearing cotton waste, is managed through collection and transport to the Common Treatment, Storage, and Disposal Facility (CTSDF) in Gummidipoondi . The Spent oil from D.G sets stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers .

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	0.3 T/Annum	Generation, Collection, Storage, Send to HW Recyclers for recycling (Recyclable)
2	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.2-Wastes or residues containing oil	1 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)
3	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.1-Exhaust Air or Gas cleaning residue	25 T/Annum	Generation, Collection, Storage, Send to M/s GEPIL for pre-processing and co processing in cement kilns (Utilizable)

3. REPORT AND ANALYSIS OF STP OUTLET

The quantity of wastewater generation depends on the quantity of water used for various purposes. As the steel melting plant is a dry process, water is mainly used only for heat management in machineries, for cooling purpose and domestic usage.

The domestic sewage (8.75 KLD) generated from the proposed expansion project will be treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.9 KLD from the STP will be used for green belt development.

The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 19 KLD will be recirculated for the processes. The details of wastewater generation are given in Table.

DETAILS OF WASTEWATER GENERATION

Sr. No	**Description**	**Quantity in KLD**		**Treatment**
		Existing	**After Expansion**	
1	Sewage	7.9	7.9	Existing STP 10 KLD
2	Blow down	19.0	19.0	Cooling tower and recycled back to process

Characteristics of Un-treated and treated water from the STP

The characteristics of the untreated and treated water are presented in Table.

CHARACTERISTICS OF UNTREATED AND TREATED WATER FROM THE STP

Sr. No.	**Parameters**	**Units**	**Un-Treated**	**Treated**	**TNPCB Desirable Limits**
1.	BOD	mg/l	300	<10	10
2.	COD	mg/l	500	<100	50
3.	Total Suspended Solids	mg/l	120	<10	20
4.	Total Dissolved Solids	mg/l	1300	1294	2100
5.	pH	-	6.5-7.5	7.0-7.5	5.5 - 9.0
6.	Oil & Grease	mg/l	5.0	<1.0	10
7.	Colour	Visual	Light Brown	Colourless	Colourless

4. SURVEY AND REPORT OF STACK MONITORING /AMBIENT AIR QUALITY /AMBIENT NOISE STUDY CONDUCTED BY TNPCB

The ambient noise levels were measured for 30 minutes at each point during the day time with RANDOM sound incidence on 26/6/2024 by District Environmental Laboratory, Ambattur, wherein, the sound level ranged from 65.1 to 74.0 Leq.

Stacks for controlling gaseous emissions are installed along with water scrubbers and cyclones. The stack is attached to the Induction furnace- 12 TON Fuel -EB. APC measure :- Bag filters corresponds to the Temperature of 416K, Velocity of 11.8 M/sec, Discharge rate of 34399 Nm3/hr, with pollutant concentrations PM 50.1 mg/Nm3, SO2 101.3 mg/Nm3 and NO2 130.9mg/Nm3.

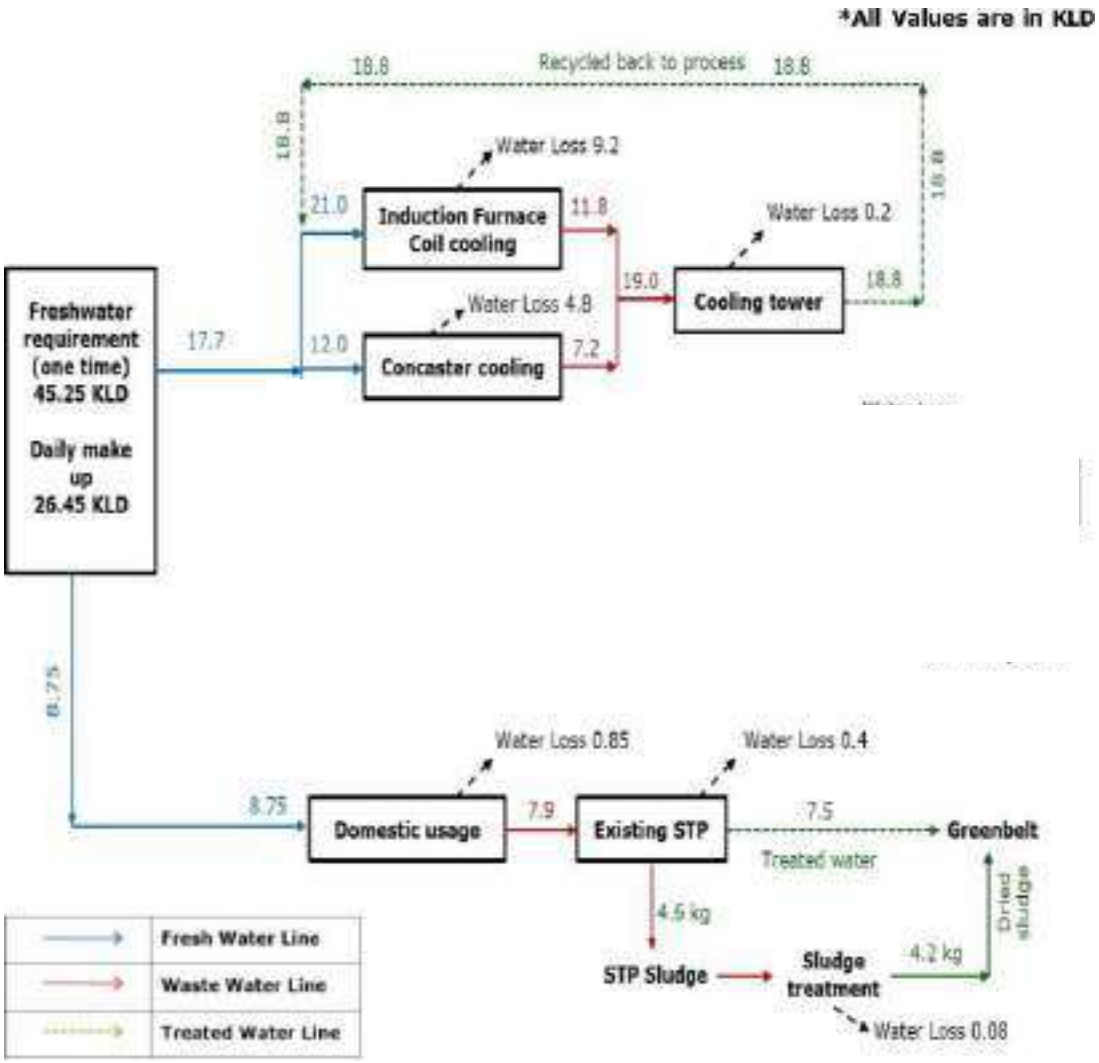
The stack attached to Induction furnace-7 Ton Fuel- EB, APC Measure: Bag filters corresponds to the Temperature of 403K, Velocity of 11.1, Discharge rate of 33401 Nm3/hr, with pollutant concentrations PM 48.5 mg/Nm3, SO2 106.6 mg/Nm3 and NO2 134.5 mg/Nm3.

Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released like PM 10 is performed using the method IS5182 (Part 23)- 2006.

SO2 is performed using Modified west- Graeke/ IS5182 (part-2)- 2001 RA 2012.

NO2 is performed using Jacobs- Hochheise/IS5182 (part-6)- 2006 RA 2012 for 5 locations ie., On top of scaffolding near admin building, On top of scaffolding near labour quarters, On top of scaffolding near Storage yard, On top of scaffolding near Stores, On top of scaffolding near Laboratory at the Distance corresponding to 60 m, 50 m, 60 m, 70 m, 80 m and at the height from Ground level of 2 m for the directions of NE, E, SE, SW, NW respectively by District Environmental Laboratory, Ambattur.

5. WATER BALANCE DIAGRAM



WATER BALANCE DIAGRAM

6. DETAILS OF RAW MATERIAL PRODUCTION

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

7. Additional Conditions (CTO AIR ACT)

SI.NO.	CONDITIONS	STATUS
1	The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAATN/ F.No.6430/EC/3(a)/78/2020 dated 10/11/2020	Compiled
2	The unit shall dismantle one number of coal fired reheating furnace of 15 T and the existing 7T induction melting furnace within a period of two months from commissioning the new furnaces.	Agreed to comply (But 7T induction melting furnace not need to dismantle)
3	The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.	Agreed to Comply
4	The unit shall operate and maintain the air pollution control measures continuously and efficiently so as to ensure that the emission shall satisfy the AAQ/Emission standards prescribed by the Board.	Compiled NAAQ Emission standards complies with the latest TNPCB survey date 02/07/2024
5	The unit shall continue to develop and maintain adequate green belt in and around the premises.	Compiled 33.17% of total plot area is developed as greenbelt area with native trees.
6	The unit shall ensure that stacks are connected to CARE Centre, Guindy at all the times.	Compiled There are 2 operational furnaces for the process in the industry. Air pollution control measures Bag filters are provided in the furnaces to control emissions and to achieve the air emission standards prescribed by the CPCB/ MoEF & CC online emission monitoring system provided in each furnace and are

		connected to the CARE AIR center of TNPCB .
7	The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel glass, porcelain plates/cups, cloth bag, jute bag etc.	Agreed to Comply

8. Additional Conditions (CTO WATER ACT)

SI.NO.	CONDITIONS	STATUS
1	The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAATN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.	Compiled
2	The unit shall dismantle one number of coal fired reheating furnace and the existing old 7T induction melting furnace within a period of two months from commissioning the new furnaces.	Agreed to comply (But 7T induction melting furnace not need to dismantle)
3	The unit shall obtain amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020 for retaining one coal fired reheating furnace of 15 T, to be used during emergency situations and furnish the same within a period of six months.	Agreed to Comply
4	The unit shall operate the coal fired reheating furnace of 15 T only after obtaining amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.	Agreed to Comply
5	The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.	Agreed to Comply

6	The unit shall operate and maintain the sewage treatment plant effectively and continuously so as to satisfy the standards prescribed by the Board	Agreed to Comply
7	The unit shall utilize the treated sewage for gardening/ green belt development without any stagnation or ponding.	Agreed to Comply
8	The unit shall ensure that the Cooling Tower Bleed Off of 19 KLD is used as Cooling Water Makeup in Rolling Mill and ensure that and there is no discharge on land etc., under any circumstance	Agreed to Comply
9	The unit shall ensure that no treated/untreated sewage shall gain access to the drain/water course at any point of time.	Agreed to Comply
10	The unit shall dispose Non-Hazardous solid wastes then and there without accumulation of the same within the premises.	Agreed to Comply
11	The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	Compiled We are obtained authorization for handling the waste generation from TNPCB valid for a period upto 31/03/2027.
12	The unit shall furnish the monthly reports on the quantity of Products manufactured with necessary supporting documents.	Agreed to Comply
13	The unit shall comply with the E-Waste Management Rules, 2016. E-Waste as listed in schedule-I, generated by them shall be channelized through Collection Centre or dealer of authorized producer or dismantler or recycler or through the designated tack back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.	Agreed to Comply
14	The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the	Agreed to Comply

	industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.	

9. ENVIRONMENTAL CLEARANCE – SPECIFIC CONDITIONS

	SPECIFIC CONDITIONS	
1.	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly Compliance report in hard and soft copies on 1st June and1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearances issued.	Agreed to comply Copy of half year Compliance report for the period October 2023 to March 2024 is submitted here with.
2.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.	Complied "Consent for Establishment" is obtained vide under Water Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu.

3.	"Consent to Operate" should be obtained from the TNPCB before the start of the operation of the project and copy shall be submitted to the SEIAA, Tamilnadu	Complied. The Consent to Operate is obtained, as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No. **T1/TNPCB/F.0119GMP/OL/GMP/W/2023** DATED: **08/12/2023** 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. **T1/TNPCB/F.0119GMP/OL//GMP/A/2023**DATED: **08/12/2023** Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. Copy of CTO renewal of Air Act & Water Act
4.	The implementation of Environment Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous Waste Management, and CSR activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.	Complied M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out, as proposed and committed. Regular monitoring carried out during operation phases.
5.	Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational-health standards and ambient air quality standards.	Complied. Adequate dust extraction system provided to handle and the emission from furnace. AAQ standards are achieved. (TNPCB survey dated 26.06.2024 report Enclosed

6.	The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.	Being complied. M/s KSIL industry total land use 4.98% is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. Where the Raw materials and products are stored separately based on their properties in the designated places. Photographs of the product storage area are attached herewith.
7.	Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.	Not applicable No hazardous chemicals handled.
8.	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.	Being Complied
9.	The proponent shall provide a separate closedareaearmarkedforstoringsolidwasteincludingHazardousWasteas proposed.	Complied Hazardous wastes are stored in a separate place.
10.	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.	Complied Hazardous Waste handed through recycler as per authorization.

11.	The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.	Agreed to comply We agree to compiled with provisions of Plastic Waste (Management & Handling) Rules 2016.
12.	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre As per E-waste (Management &Handling) Rules 2016 as amended	Agreed to comply We agree to compiled with provision of waste (Management & Handling) Rules 2016.
13.	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.	Agree to comply We agree to compiled maintain with provision of Solid Waste Management Rules, 2016.
14.	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM25, SOx, NOx) through TNPC/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.	Being Complied TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox & NOx etc.,
15.	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	Complied Through TNPCB lab analysis

16.	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environment safeguards.	Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of **Environment Management Cell is presented in Annexure** As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu.
17.	The Greenbelt area already developed within the project area shall be properly maintained.	Agree to comply e
18.	The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Complied The greenbelt area for 33.17% of total land which has area of 1.0ha developed. .
19.	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.

20.	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:
21.	The energy sources for lighting purposes shall preferably be LED based.	Complied. LED lights are provided for lighting purposes.
22.	The industry shall conduct air sampling at Least twice in a week (104 times in a year). As stipulated under EP Act 1986.	Being Complied Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted.
23.	Risk cum disaster management plan should be in placed in the industry premises at all times.	Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan
24.	Water conservation scheme including rainwater harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rain water harvested as a supplement to fresh water.	Complied. Rain water harvesting (RWH) system is implemented.
25.	The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provide considering the Catchment area and maximum intensity of rainfall to collect run off water/rain water for proper disposal to avoid flooding around the premises.	Being Complied Adequate Storm water drains are provided.

26.	The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/Honb'le High Court of Madras.	Agreed to Comply.
27.	All the assurances given in EIA and EMP shall be adhered strictly.	Complied.
28.	Detail study shall be carried out by engaging accredited agencies/reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.	Complied. Onsite emergency management plan are prepared and available site premises to manage risk.
29.	Sufficient funds should be provided for Disaster management.	Complied. Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.
30.	The Project Proponent shall provided is infection by UV system for these wage treatment plant for treating the sewage before applying on land for gardening.	Complied The treated wastewater of 7.9 KLD from the STP is recycled for greenbelt development after disinfection.
31.	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.	Being Complied M/s KSIL provided sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste are being kept.
32.	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	Being Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial **Safety** and Health Government of Tamil Nadu.

33.	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Complied Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.
34.	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed	Being Complied M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.
35.	The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.	Complied Our industrial activity is not having any impact on the surrounding agriculture and irrigation system
36.	The EMP cost of Rs.45 Lakhs for capital costandrecurringcostofRs.7lakhsshallbedeposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund.

37.	There should be no threat to Biodiversity due to the operation of the industry.	Agreed to comply Due to the operation of the M/S RSIL industry there is no threat to Bio diversity.
38.	The Project Proponent has to provide rain water harvesting tank during normal rains.	Complied Rain Water Harvesting percolation pits constructed along the periphery of the plant for ground water recharge from rain water.
39.	The operation of the activity should not impact on the soil, micro flora& Fauna present in and around the project site.	Being Complied The operation of mill does not have any impact on the soil, micro flora& Fauna present in and around the project site.
40.	The proponent should continuously monitor the VOC and ensure that VOC levels are with in permissible limits.	Not Applicable
41.	The project proponent shall carryout risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.	Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:
42.	The project proponent shall take up better housekeeping measures including scraps disposal and upkeeping the machineries, pipes etc.,	Being Complied Housekeeping measures are done regularly and including scraps disposal and up keeping the machineries, pipes etc.,
43.	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.	Complied The CER activities for the amount of 17.4655 lakhs have been spent.

ANNEXURE XX

EMP IMPLEMENTATION SCHEDULE

EMP IMPLEMENTATION SCHEDULE

SR.NO.	RECOMMENDATION	REQUIREMENT /STATUS
1	Air pollution control measures	Air pollution control measures provided in industry
2	Water pollution control measures	Water pollution control measures provided in industry
3	Noise control measures	Noise control measures provided in industry
4	Solid waste management	Solid waste management is implemented
5	Greenbelt development	Greenbelt development is implemented

ANNEXURE XXI

HAZARDOUS WASTE PRODUCT STORAGE AREA

DETAILS OF LANDUSE BREAK-UP

Sr. No.	Plant Facilities	Area			
		Existing		After Expansion	
		ha	%	ha	%
1	Factory shed area	0.75	24.88	0.9	29.85
2	Scrap area	0.4	13.27	0.55	18.24
3	Product storage area	0.1	3.32	0.15	4.98
4	Greenbelt development	0.5	16.58	1	33.17
5	Road	0.37	12.27	0.37	12.27
6	Open space area	0.85	28.19	0	0.00
7	Solid waste storage area	0.045	1.49	0.045	1.49
	Total	**3.015**	**100**	**3.015**	**100**

The proposed expansion involves the installation of new furnace, continuous casting machine and it involves the replacement of existing reheating furnace. The existing land area would be sufficient to carry out the expansion activity hence no additional land will be required for the proposed expansion.

The land use breaks up details of the existing facilities and after the proposed expansion clearly indicate that there is increase of area in the factory shed area, scrap area, products storage area due to the installation of new machinery, increase in scrap storage and in production. The required additional area for the proposed expansion activity is utilized from the open space area of the premise.

The existing plant has a greenbelt area of 16.58% of the total area. In expansion, additional area of 16.6% is proposed aside from the existing plant area to maintain the CPCB norms of 33% of total plot area. Designing the greenbelt in the appropriate manner, will help to reduce the fugitive emissions and attenuate noise from the industrial process.

ANNEXURE - XXII

REPORT OF ANALYSIS

TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Ambattur.

From	To
Dr. K.Sarumathy M.Sc., M.Phil., P.hD, Deputy Chief Scientific Officer, District Environmental Laboratory, No.77-A South Avenue Road, Ambattur Industrial Estate, Ambattur, Chennai 600 058.	**M/S. Kanishk Steel Industries Ltd** Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201

Lr.No.TNPCB/ ROA No.27/2024 - 25/DEL/AMB/AAQS/SM **Dated: 02.07.2024**

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality/Stack Monitoring / Ambient Noise Level Survey-regarding.

Ref: 1. G.O.(2D) No. 13 dated:31.08.2021
(Revised Rate From 01.09.2021)
2.This Office.Lr.No.50/2024-25 Dated : 18.06.2024
3.Cash Receipt No.121 Dated : 21.06.2024
Rs. 84,350
4. Your ltr. No.121 Dated : 21.06.2024

****

I am sending herewith the Report of Analysis of Ambient Air Quality /Stack Monitoring/Ambient Noise level.Survey conducted in the vicinity of your Industry on 26.06.2024 with an invoice for a sum of Rs.84,350.00/- (Rupees Eighty Four Thousand Three Hundred and Fifty Only) towards the above survey/analysis charges, and same has been adjusted with the advance fees received vide reference cited.

Kindly acknowledge the receipt of the report without fail.

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

Encl: As above

Copy to:

1. The District Environmental Engineer, TNPCB, Gummidipoondi
2. File

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient Air Quality Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey : 26.06.2024
4. Duration of Survey : Eight hours
5. Category : OL
6. Land use classification. : Industrial

Consent No: 2307255530846
Dated: 08.12.2023
Validity Upto : March 31st 2033

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30.0	36.0		42	59
Weather Condition	Clear Sky		Rain Fall (mm)	Nil	
Predominent Wind Condition	South West To North East		Mean Wind Speed (Km/hr)	15 Km/Hr	

Ambient Air Quality Survey Results

Sl. No	Location	*Direction	Distance (m)*	Height from GL (m)	Pollutants Concentrations (µg/m3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On Top of Scaffiolding Near Admin Building	NE	60	2.0	68.1	--	13.5	15.6
2	On Top of Scaffiolding Near labour quarters	E	50	2.0	89.1	38.4	16.6	19.1
3	On Top of Scaffiolding Near storage yard	SE	60	2.0	72.1	--	16.2	18.8
4	On Top of Scaffiolding Near stores	SW	70	2.0	85.6	--	17.1	19.7
5	On Top of Scaffiolding Near laboratory	NW	80	2.0	70	40.1	18.3	21.2

Note:- * With respect to major emission sources.
The analytical results are restricted to the sampling period of 8 Hrs/24Hrs.

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Stack Monitoring Survey - Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1. Name of the Industry : **M/S. Kanishk Steel Industries Ltd**
2. Address of the Industry : Plot No B-27
   SIPCOT Industrial Complex
   Gummidipoondi
   Pin 601201
3. Date of survey 26.06.2024
4. Type of the Industry : Steel

Stack Monitoring Survey Results

Sl.No	Stack attached to	Stack Temp in K	Velocity in (M/sec)	Discharge Rate in (Nm^3/hr)	Pollutants (mg/Nm3)		
					PM	SO_2	NO_2
1	Induction furnace - 7 Ton Fuel:- EB APC Measure:- Bag Filters	416	11.8	34399	50.1	101.3	130.9
2	Induction furnace - 12 Ton Fuel:- EB APC Measure:- Bag Filters	403	11.1	33401	48.5	106.6	134.5

Test performed	Test Method
PM_{10}	IS 5182: (Part 23) - 2006
SO_2	Modified West-Graeke /IS 5182: (Part2)-2001 RA:2012
NO_2	Jacobs-Hochheise /IS 5182: (Part6)-2006 RA:2012

K.Sau 3/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Ambattur.

Ambient/Source Noise Level Survey-Report of Analysis

ROA No. 27/AAQS/2024 - 25 **Dated: 02.07.2024**

1	Name of the Industry	**M/S. Kanishk Steel Industries Ltd**			
2	Address of the Industry	Plot No B-27 SIPCOT Industrial Complex Gummidipoondi Pin 601201			
3	Date of survey	26.06.2024			
4	Category	OL	Land Use Classification		Industrial
Type of survey		Ambient/Source		Time of Survey	Day
Meteorological Conditions		Calm			

Logging Parameters

Instrument Used	CESVA	**Serial No.**	T243104
Logging Interval	30 Minutes in each point	**Measuring Range**	50-110 dB(A)
Weighting	"A" Peak Weighting	"C" **Time Weighting**	Slow
Sound Incidence	RANDOM	**Time in Hrs.**	15:30 - 16:20 Hrs

S.no	Location	Duration (min)	Distance (m)	Direction	Sound Level – dB(A)		
					Leq	LMin	LMax
1	Near Admin Building	30	60	NE	70.5	66.2	85.2
2	Near labour quarters	30	50	E	74.0	70.6	88.6
3	Near storage yard	30	60	SE	69.4	65.3	82.6
4	Near stores	30	70	SW	72.6	69.4	87.3
5	Near laboratory	30	80	NW	65.1	61.3	78.2

Leq Value is the average energy for the measured period

2/7/24

Deputy Chief Scientific Officer,
DEL, Ambattur

WATER QUALITY TEST RESULT

KIWIS
ECO LABORATORIES PVT. LTD
Recognized by MoEF & CC, GOI, New Delhi,
Certified by ISO 9001:2015,
ISO 14001:2015 & OHSMS 45001:2018.

Plot No. 19, ALEAP Industrial Estate,
SY. No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090.
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040-23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Name and address of the client

***M/s. Kanishk Steel Industries Limited,
S.F. No. B-27 (N,M & S) SIPCOT Industrial Complex, Peddikuppam Village,Gummidipoondi, Tiruvallur district Pin: 601 201.***

Date of report	*: 08-05-2024*	*Sample Collected by*	*: Kiwis Eco Laboratories Pvt Ltd.,*
Date of sampling	*: 28-04-2024*	*Sample Collected in*	*: in Plastic Cans*
Sample received on	*: 30-04-2024*	*Sampling Procedure*	*: KIWIS/SOP/ Lab - 258*
Analysis starting date	*: 30-04-2024*	*Sample registration no/Code*	*: KSIL/W/COM/04/24/129*
Analysis completion date	*: 08-05-2024*	*Sample description*	*: Water Quality Monitoring*
Sub Contract Testing	*: NA*	*Name of the Location*	*: Ground water at Plant site*

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
1	Color	Hazen	APHA 2120 C	<5.0	5	15
2	Turbidity	NTU	APHA 2130 B	<1.0	1	5
3	pH @ 25.0°C	-	APHA 4500H+ B	6.9	6.5-8.5	No relaxation
4	Electrical Conductivity	µmho/Cm	APHA 2510 - B	3270	Not Specified	Not Specified
5	Total Dissolved solids	mg/L	APHA 2540 C	1950	500	2000
6	Total Solids	mg/L	APHA 2540 B	1958	Not Specified	Not Specified
7	Alkalinity as $CaCO_3$	mg/L	APHA 2320 B	171	200	600
8	Hardness as $CaCO_3$	mg/L	APHA 2340 C	820	200	600
9	Calcium as Ca	mg/L	APHA 3500 Ca B	233	75	200
10	Magnesium as Mg	mg/L	APHA 3500-Mg B	58	30	100
11	Chlorides as Cl-	mg/L	APHA 4500 Cl- B	759	250	1000
12	Sulphates as SO_4	mg/L	APHA 4500 SO_4 D	158	200	400
13	Nitrate as NO_3	mg/L	APHA 4500 NO_3 B	4.4	45	No relaxation

Note : This report is subject to the terms and conditions mentioned overleaf

KIWIS
ECO LABORATORIES PVT. LTD
Recognized by MoEF & CC, GOI, New Delhi,
Certified by ISO 9001:2015,
ISO 14001:2015 & OHSMS 45001:2018.

Plot No. 19, ALEAP Industrial Estate,
SY. No's 342, Near Pragathi Nagar,
Quthbullapur Mandal and Municipality,
Ranga Reddy Dist. Telangana - 500 090.
Email: kiwislabhyd@gmail.com
Ph: 99666 61485 / 040-23816333

TEST REPORT

Report No: KIWIS/W/COM/24/09

Samples are analyzed "as Received basis"

S.No	Parameter	Unit	Method	Result	IS 10500 (Acceptable Limits)	IS 10500 (Permissible Limits)
14	Sodium as Na	mg/L	APHA 3500 Na B	460	Not Specified	Not Specified
15	Potassium as K	mg/L	APHA 3500 K B	18	Not Specified	Not Specified
16	Fluoride as F	mg/L	APHA 4500F- D	< 0.5	1	1.5
17	Iron as Fe	mg/L	APHA 3500 Fe B	< 0.3	1	No relaxation
18	Zinc as Zn	mg/L	APHA 3111 B	<0.2	5	15
19	Cyanide as CN^-	mg/L	APHA 4500 CN- C, E	<0.05	0.05	No relaxation
20	Phenolic Compounds as C_6H_5OH	mg/L	APHA 5530 D (Direct Photometric Method)	<0.001	0.001	0.002
21	Lead as Pb	mg/L	APHA 3111 B	<0.01	0.01	No relaxation
22	Mercury as Hg	mg/L	APHA-3112 Hg B	<0.001	0.001	0.001
23	Manganese as Mn	mg/L	APHA 3111 B	<0.1	0.1	0.3
24	Cadmium as Cd	mg/L	APHA 3111 B	<0.003	0.003	No relaxation
25	Chromium as Cr^{+6}	mg/L	APHA 3500 Cr B	<0.01	0.05	No relaxation
26	Copper as Cu	mg/L	APHA 3111 B	<0.05	0.05	1.5
27	Total Coliform	MPN/ 100ml	APHA 9221B	<0.05	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample
28	E-Coli	MPN/ 100ml	APHA 9221G	<1.8	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample

Methods follow: APHA 24thEdition
NA: Not Applicable

Opinion and interpretation: Nil

- Reports pertained only to the submitted sample
- Test reports shall not be reproduced except in full, without written approval of the laboratory

Checked By

(V.Anusha)
(Sr.Chemist)

Authorized Signatory

(C.Sateesh)
(Manager Laboratory)

End of the Report

Note : This report is subject to the terms and conditions mentioned overleaf

ANNEXURE XXIII

ATTACHED UNDERTAKING WITH DETAILS OF GREEN BELT DEVELOPMENT DOCUMENT

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To **Date: 19/02/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on dated 13.02.2025.

With reference to the inspection of M/s Kanishk Steel Industries Limited at Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District, conducted by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO,

We hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

SPECIFIC CONDITIONS:

SI.NO. VII: The Greenbelt area already developed within the project area shall be properly maintained.

SI.NO. VII: The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

GREENBELT DEVELOPMENT MAINTENANCE IN AND AROUND FACTORY

The existing plant has been developed with a greenbelt area of 1 hectare (33.17%), and an additional 1.005 hectares (33.33%) is being developed as part of the proposed expansion project, thereby meeting the CPCB greenbelt norms. The greenbelt will be maintained at the proposed plant, with native species planted in consultation with a horticulturist. The greenbelt has been developed along the plant boundary and open spaces.

Currently, 256 trees are maintained along the periphery of the existing plant. Additionally, 123 new trees have been recently planted as part of the expansion, bringing the total number of trees at the project site to 379.

Furthermore, greenbelt development efforts have been undertaken beyond the project site:

- Planted forest trees across 2.5 acres at two locations within the Gummidipoondi SIPCOT complex (300 trees).
- Tree plantation and maintenance at Triveni Alloys Limited, with 400 trees planted across 1.7 acres opposite the factory land.
- Green coverage initiative at Kilpauk Water Works, Chennai, where 245 trees were planted across 2 acres as permitted.

This initiative reflects our commitment to enhancing greenery and promoting environmental sustainability. Replantation is carried out wherever necessary to maintain the 33.33% greenbelt requirement. Additionally, artificial habitats have been provided to support local bird species.

The details and numbers of trees in the existing plant are listed in Table - 1. The photographs of the existing greenbelt are shown in Figure – 1.

Table 1: DETAILS OF TREES IN THE EXISTING PLANT

Sr. No.	Name of the Trees	Numbers of Trees
1	Banyan Tree	2
2	Mast Tree	12
3	Neem Tree	2
4	Mango Tree	4
5	Tamarind Tree	2
6	Ficus Religiosa Tree	9
7	Coconut Tree	9
8	Teakwood Tree	27
9	Almond Tree	9
10	Palm Tree	4
11	Guava Tree	1
12	Andrographic Paniculata Tree	10
13	Portia Tree	5
14	Pungai Tree	10
15	Mahogary	120
16	Badam Tree	5
17	Other Trees	25
18	New Trees Planted	123
Total		**379**

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001









EXISITNG TREE PLANTING AT KSIL

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

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NEW TREE PLANTING AT KSIL

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001







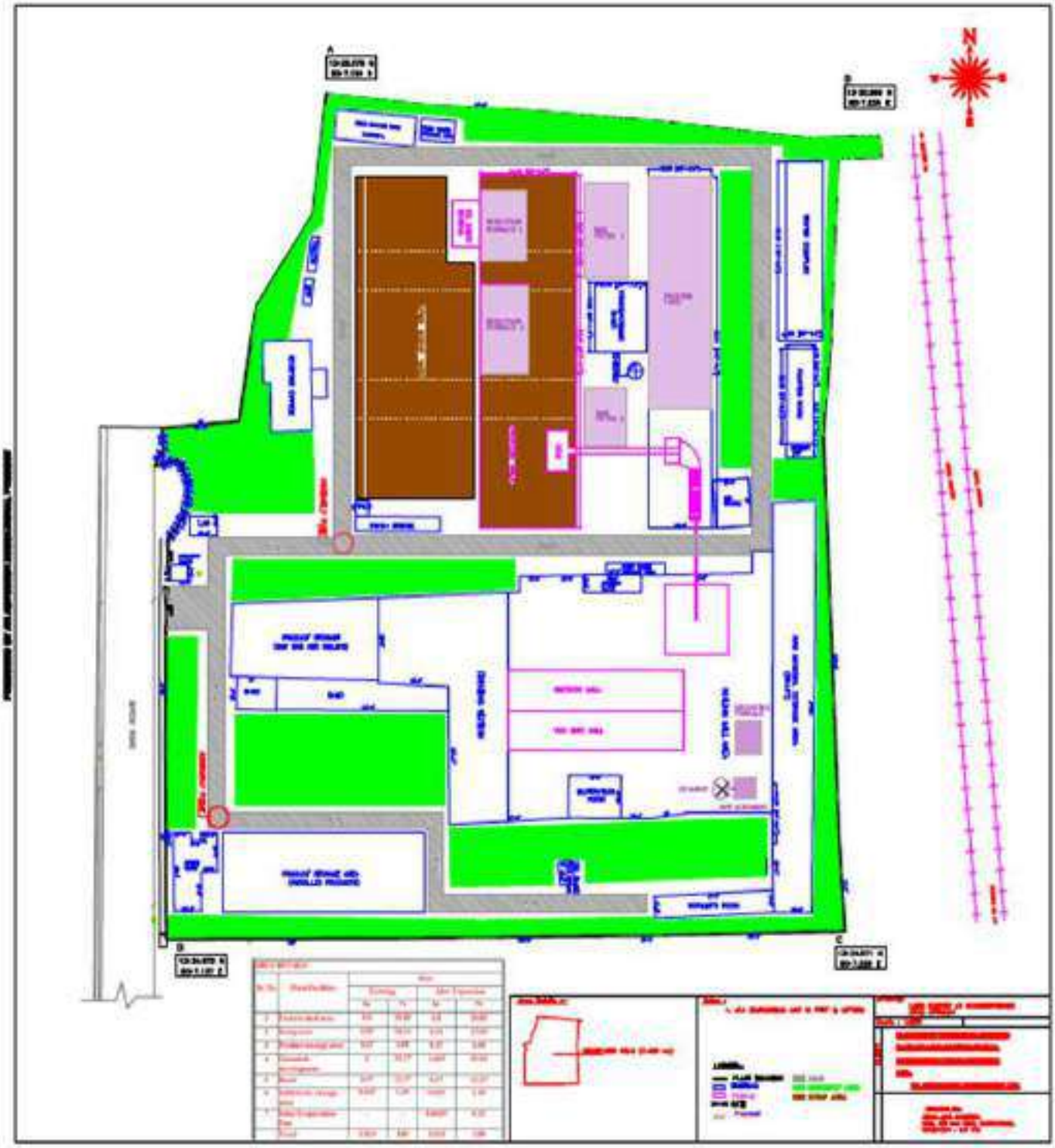


EXISITNG TREE PLANTING MAINTANANCE ATTRIVENI ALLOYS,GUMMIDIPOONDI BY KSIL

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

KSIL GREEN BELTLAYOUT PLAN



Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

TRIVENI ALLOYS LIMITED

A-14 & B-71, Sipcot Industrial Complex
GUMMIDIPOONDI - 601 201

To

M/s Kanishk Steel Industries Ltd.,
B 27 (M), SIPCOT Industrial Complex,
Gummidipoondi 601 201.

Date:4, Oct. 2017

Dear Sirs,

We hereby allot you around 2 acres at our premises towards the northern side for your Plantation works.

The plantation area will have to be segregated by proper fencing, fencing by yourselves.

The maintenance of the plants, watering, cleaning , growth etc., will have to be managed by your own people.

Thanking you,

Yours faithfully,
For Triveni Alloys Limited,

Authorised Signtory.

for KANISHK STEEL INDUSTRIES

Authorised Signatory

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT. OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL COMPLEX
PROJECT OFFICE, GUMMIDIPOONDI – 601 201.
Telephone: 044-27922355 Email: pmsipcotgpd@gmail.com
Tele Fax : 044-27922242 CIN .U74999TN1971SGC005167

Lr.No.PO/SIC/GPD/Misc/2019 **dt: 02.05.2019**

To:
M/s. Kanishk Steel Industries Ltd.,
SIPCOT Industrial Complex,
Gummidipoondi – 601201.

Sir,

Sub: SIPCOT Industrial Complex, Gummidipoondi – Tree plantation and maintenance – reg.
Ref: Your letter dated: 24.04.2019

****

With reference to the letter cited, you have planted the avenue plants in A.O.Block premises to an extent of about 1.50acres and infront of the OSR-8 abutting main road to an extent of about 1.00acres (200nos.+100nos. = 300nos.), during October'2018 and being maintained the same till now.

Hence, it is informed that, you are requested to maintain the trees to the above said location further one years.

Kindly acknowledge, the letter receipt of this letter.

Yours faithfully,

PROJECT OFFICER
SIPCOT. GUMMIDIPOONDI

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date:- 24.04.2019.

To,

The Project Manager,

Sipcot Industrial Complex,

Gummidipoondi-601201.

Dear Sir,

Sub:- Tree Plantation.

We have planted forest trees on about 2.5 Acrs of land (2 places) at sipcot complex and are maintaining the same on a daily basis.This was done at the behest of TNPCB complex greening project.

We request you to please issue as a letter/certificate for our records.

Thanking you,

Yours Faithfully,

For KANISHK STEEL INDUSTRIES LIMITED,

Director.,

25/4/2019
AE/SIPCOT/Gpd.

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

Ph : 25552261(G)

CASH BILL

Mob : 9444052261
9952992182

ஜீவா நர்சரி கார்டன்

950

JEEVA NURSERY GARDEN

No : 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051.(M.M.C Post)
Near Parvathi Nagar Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s. [illegible] திரு.மியுப்புதன்பு

Bill No. :

Date. 11/11/17

S.No.	Particulars	Qty	Rate	Amount
1	[illegible]	400	80	32,000
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
	Total			32,000

For Jeeva Nursery Garden

PCB

KANISHK STEEL INDUSTRIES LTD

ISO 9001

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

Date:20/09/2018

To

The Managing Director,
Chennai Metro Water Supply & Sewarage Board,
Chintadripet,
Chennai .

Respected Madam,

Sub: Tree plantation at your Kilpauk Site.

We are planning to plant trees under urban afforestation from our CSR activities and are requesting your goodselves to permit us to plant trees on around 2acres at your Kilpauk Water Works site. We shall be glad to provide any help necessary towards the same. Requesting your guidance and kind permission.

Thanking You,

Yours Faithfully

For KANISHK STEEL INDUSTRIES LTD.,

Director.

Copy To

1). The Executive Engineer,
Chennai Metro Water Supply & Sewarage Board,
Kilpauk Water Works,
Chennai .

24 SEP 2018

2). The Member Secretary,
Tamilnadu Pollution Control Board,
Guindy – Chennai.

3). The Joint Chief Environmental Engineer (M),
Tamilnadu Pollution Control Board,
Arumbakkam – Chennai.



Mylapore, Chennai - 4. Ph. [illegible] Royapettah High Road,

CASH BILL

Mob. 94440 52261
99529 92182

ஜீவா நர்சரி கார்டன்

JEEVA NURSERY GARDEN

No. 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051. (M.M.C. Post)
Near Parvathi Nagar, Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s.....

Bill No. : 287

Date... 13.10.18.

S.No.	Particulars	Qty	Rate	Amount
1.	[illegible]	15	55	825 00
2.	[illegible]	5	100	500 00
3.	[illegible]	5	10	50 00
4.	[illegible]	5	120	600 00
5.	[illegible]	5	100	500 00
6.	[illegible]	5	100	500 00
7.	[illegible]	5	100	500 00
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.	3,475/-			
21.				
22.				
23.				
24.				
25.				
	Total			3475 00

For Jeeva Nursery Garden

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Compl...
Ph : (044) 2792 2187

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No. 1, Pumping Station Road, Chintadripet, Chennai-600 002

Executive Engineer
Regional Office-I

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s. Kanishk Steel Industries ltd. Gummidipoondi, Thiruvallur – 601 201 has been done Green Coverage at Kilpauk water works, Chennai –10 for an area of 2 acres on sponsorship to Metro water

Executive Engineer/RO-I

CASH BILL

Mob. 94440 52261
99529 92182

ஜீவா நர்சரி கார்டன்

JEEVA NURSERY GARDEN

No. 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051. (M.M.C. Post)
Near Parvathi Nagar, Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s. அரவிந்த் T.M.T

.....

Bill No. : 286

Date. 10/10/18

S.No.	Particulars	Qty	Rate	Amount
1.	Jaggery (அவரைடிடி)	2/10	50	10500 00
2.	தேன் பாட்டில் (சிறு) Sathajul.	5	100	500 00
3.	வேம்பாமரம் : Drum	10	10	100 00
4.	நெல்லிக்காய் பாட்டில் (சிறு) Amla	5	100	500 00
5.	Jaggery பாட்டில் L Mango	5	120	600 00
6.	Jaggery பாட்டில் L Jack	5	100	500 00
7.	கோமியம் பாட்டில் Cowva	5	60	300 00
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.	12,000 /			
20.				
21.				
22.				
23.				
24.				
25.				
	Total			13000 00

For Jeeva Nursery Garden

M/S. KANISHK STEEL INDUSTRIES LTD

CSR ACTIVITIES

GREEN INITIATIVE

THAMARAI ERI DESILTING AND BUND PLANTING

GUMMIDIPOONDI TOWN PANCHAYAT

THIRUVALLUR DISTRICT 601 201.


KOBELCO HD
Thamarai Lake Desilting
nd Bund Strengthening
SK210HD LC
LAT-KOMATSU

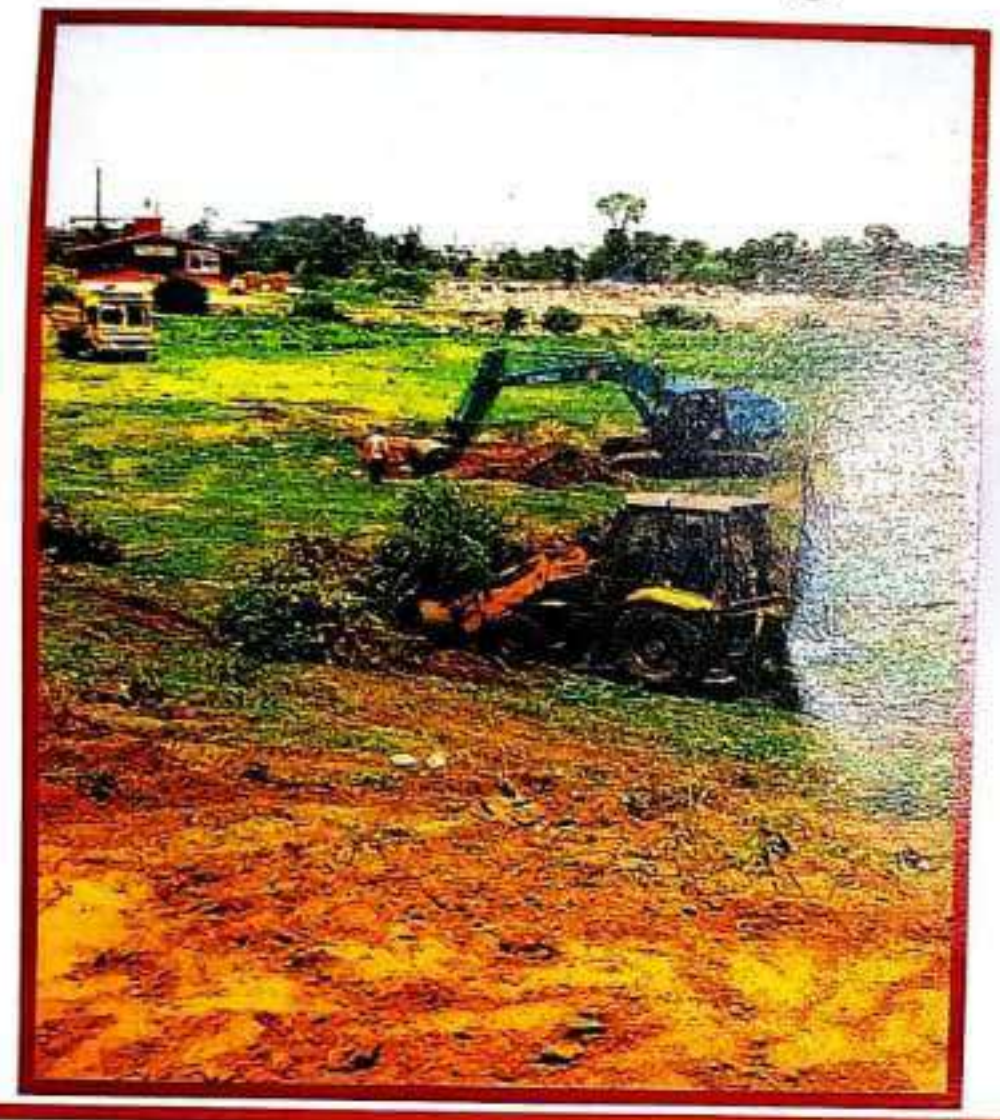

PUBLIC CARRIER
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PUBLIC
A.MOHAN


KOBELCO HD
Thamarai Lake Desilting
nd Bund Strengthening
SK210HD LC
LAT-KOMATSU

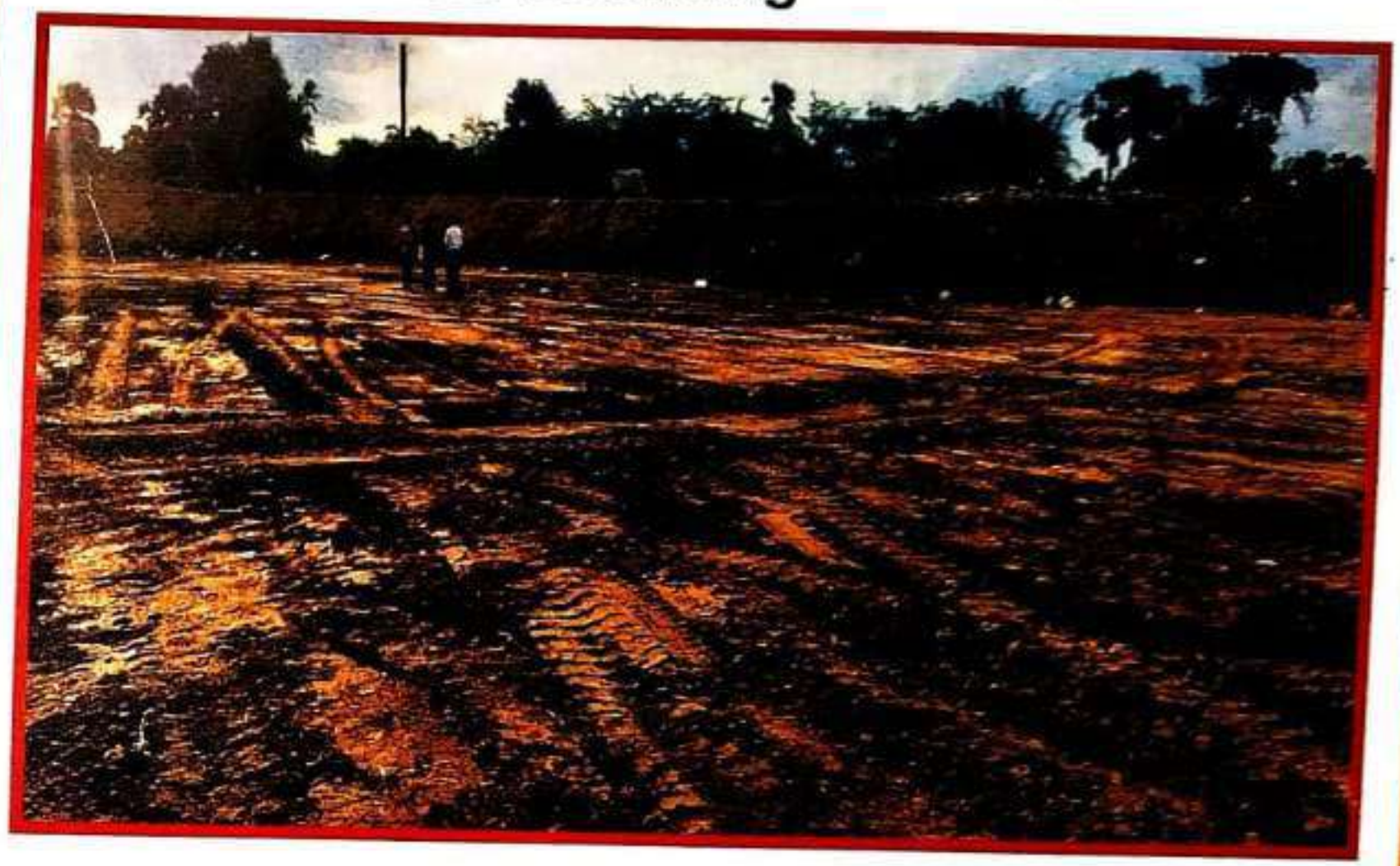

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A.MOHAN

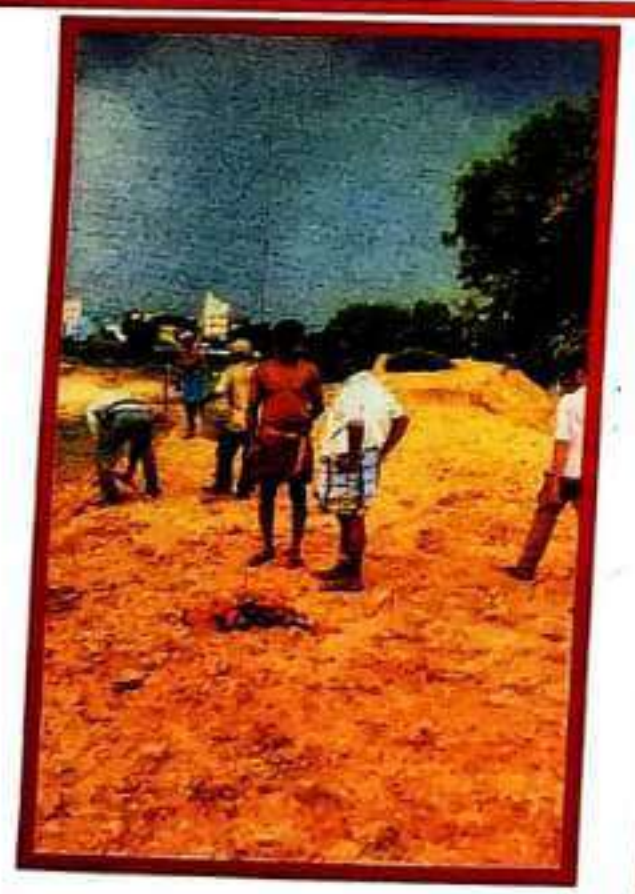
M/S. KANISHK STEEL INDUSTRIES LTD

Before Desilting



After Desilting







After Tree Plantation

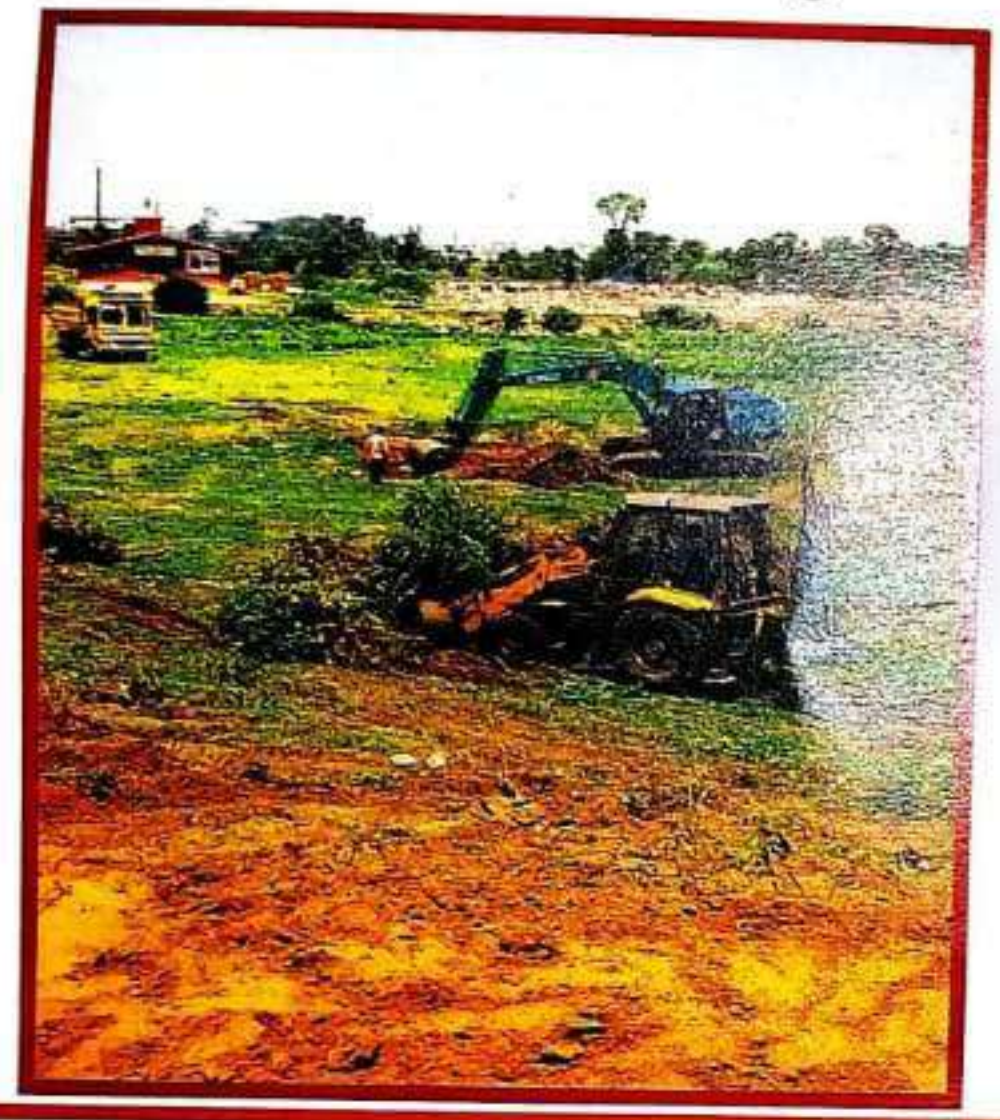
Name of the Company : **M/s. KANISHK STEEL INDUSTRIES LTD**
Taluk : Gummidipoondi Taluk,
Name of the pond : Thamarai Eri

Pond Area : in acre	Water Capacity : in Metric^3
3.2 Acres	15400

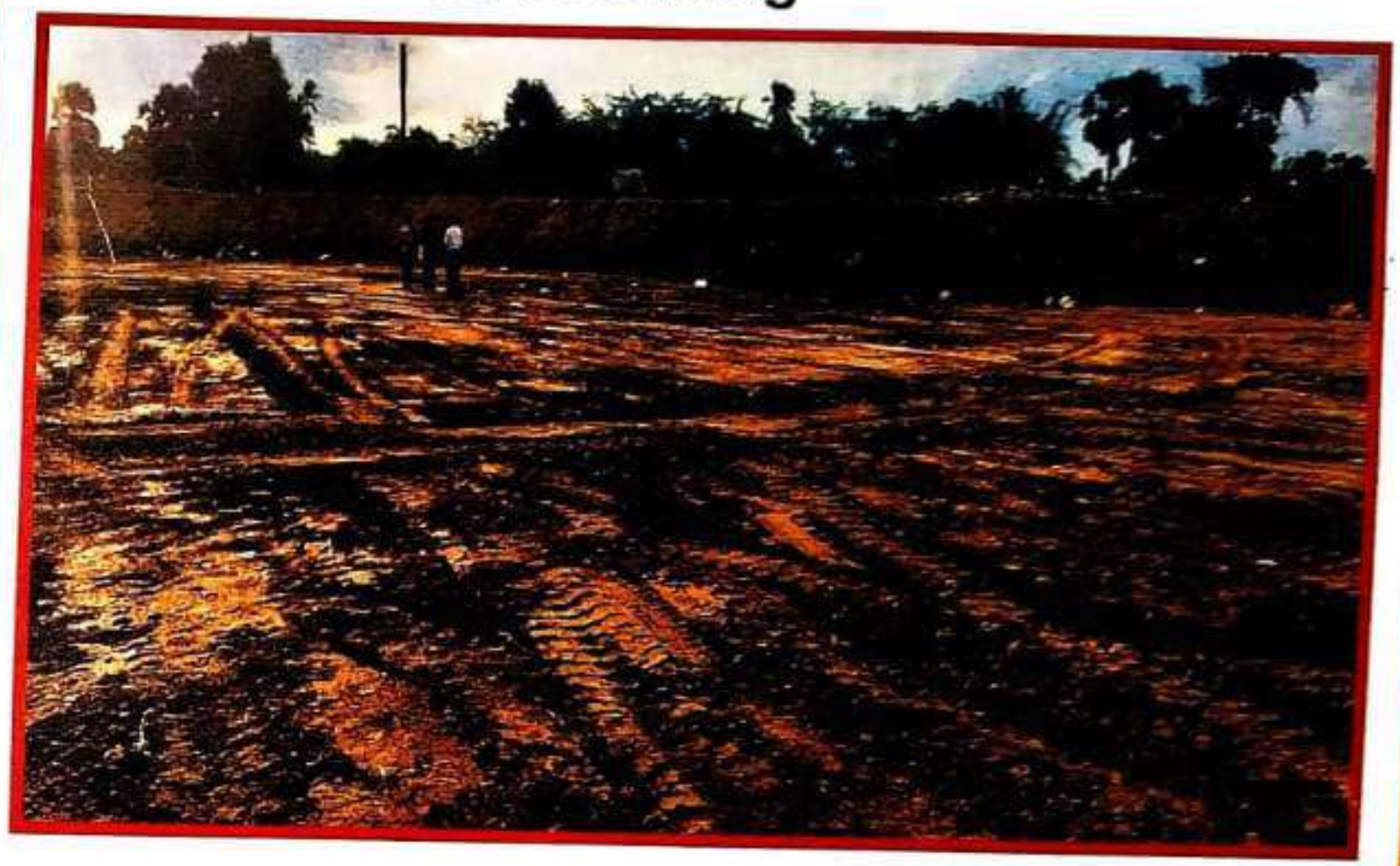
Cost of Estimation : Rs.16.5 Lakhs
Date of Startup : 26.08.2019
Date of Completion : 07.09.2019
Work in Progress : 100%
Bund Tree Plantation : 2000 nos palm tree nuts
: 12.09.2019 to 18.09.2019

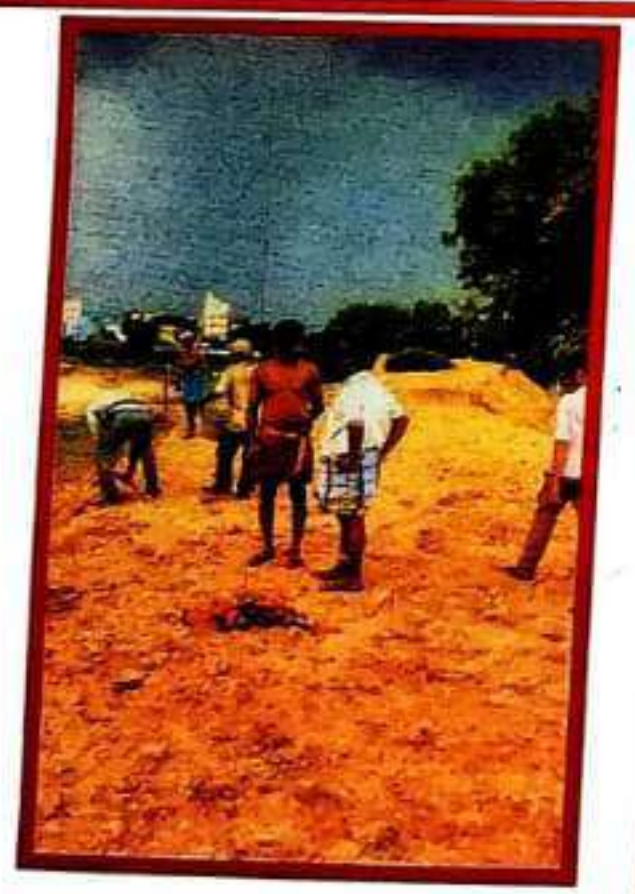
M/S. KANISHK STEEL INDUSTRIES LTD

Before Desilting



After Desilting







After Tree Plantation

Name of the Company : **M/s. KANISHK STEEL INDUSTRIES LTD**
Taluk : Gummidipoondi Taluk,
Name of the pond : Thamarai Eri

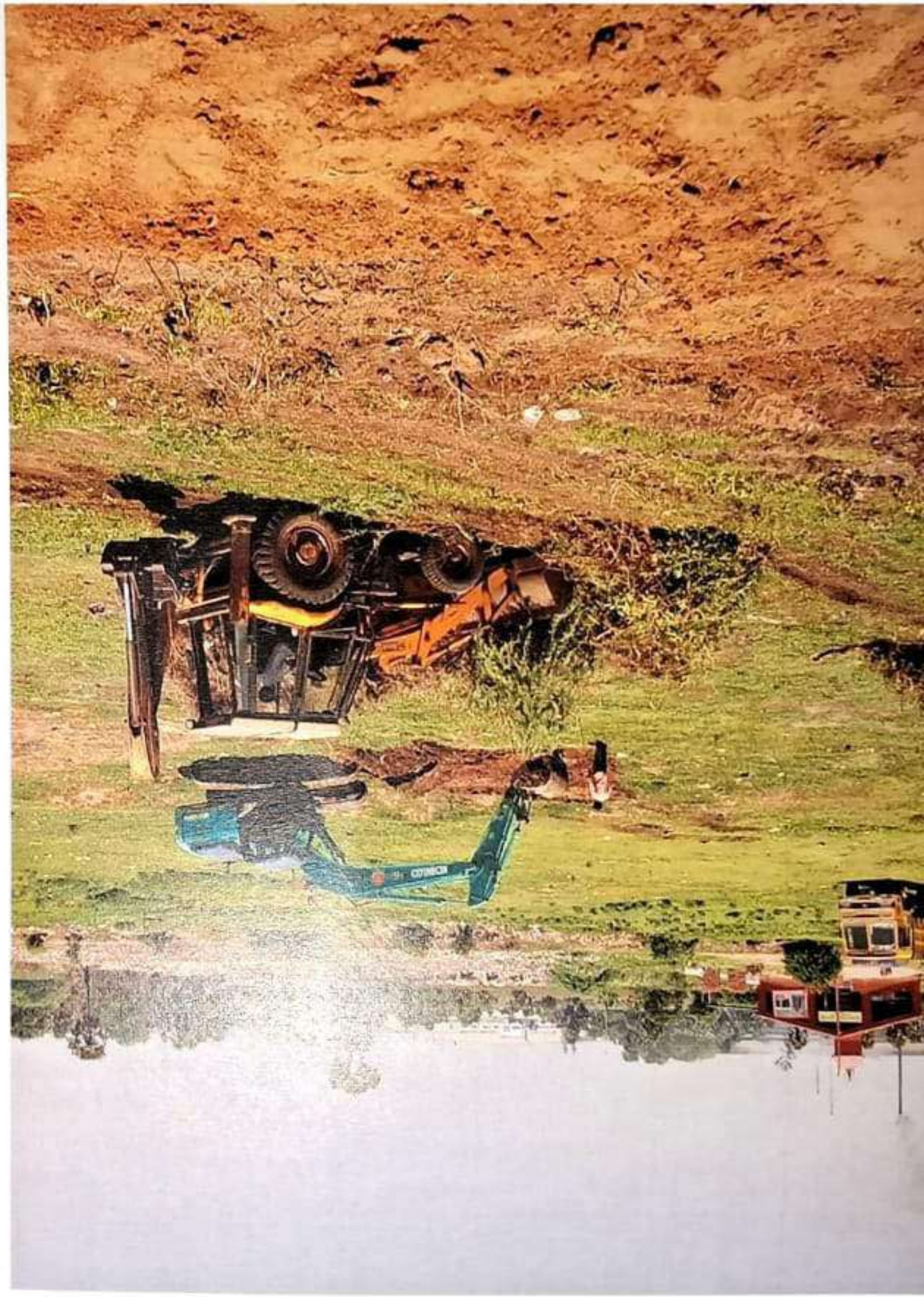
Pond Area : in acre	Water Capacity : in Metric^3
3.2 Acres	15400

Cost of Estimation : Rs.16.5 Lakhs
Date of Startup : 26.08.2019
Date of Completion : 07.09.2019
Work in Progress : 100%
Bund Tree Plantation : 2000 nos palm tree nuts
: 12.09.2019 to 18.09.2019


B E N


M A

















ANNEXURE XXIV

PRELIMINARY RISK ASSESSMENT

7.0 ADDITIONAL STUDIES

7.1 Risk Assessment and Disaster Management Plan

Hazard analysis involves the identification and quantification of the various hazards (unsafe conditions) that exist in the plant. On the other hand, risk analysis deals with the identification and quantification of risks, the plant equipment and personnel are exposed to, due to accidents resulting from the hazards present in the plant.

Risk analysis follows an extensive hazard analysis. It involves the identification and assessment of risks the neighbouring populations are exposed to as a result of hazards present. This requires a thorough knowledge of failure probability, credible accident scenario, vulnerability of population etc.

In the sections below, the identification of various hazards, probable risks in the proposed modernization of Steel Rolling Mill, maximum credible accident analysis, consequence analysis are addressed which gives a broad identification of risks involved in the plant. Based on the risk estimation for fuel and chemical storage, Disaster Management Plan (DMP) has been prepared.

7.1.1 Approach to the Study

Risk involves the occurrence or potential occurrence of some accidents consisting of an event or sequence of events. The risk assessment study covers the following:

- Identification of potential hazard areas;
- Identification of representative failure cases;
- Visualization of the resulting scenarios in terms of fire (thermal radiation) and explosion;
- Assessment of the overall damage potential of the identified hazardous events and the impact zones from the accidental scenarios;
- Assessment of the overall suitability of the site from hazard minimization and disaster mitigation points of view;
- Furnishing specific recommendations on the minimization of the worst accident possibilities; and
- Preparation of broad Disaster Management Plan (DMP), On-site and Off-site Emergency Plan, which includes Occupational and Health Safety Plan.

7.1.2 Hazard Identification

Identification and quantification of hazards in the steel industry modernization is of primary significance in the analysis, quantification and cost effective control of accidents. A classical definition of hazard states that hazard is in fact the characteristic of system/plant/process that presents potential for an accident.

Hence, all the components of a system/plant/process need to be thoroughly examined to assess their potential for initiating or propagating an unplanned event/sequence of events, which can be termed as an accident. The following two methods for hazard identification have been employed in the study:

- Identification of major hazardous units based on Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 of Government of India (GOI Rules, 1989); and
- Identification of hazardous units and storage units based on relative ranking technique, viz. Fire-Explosion and Toxicity Index (FE&TI).

7.1.3 Identification of Major Hazardous Units

Hazardous substances may be classified into three main classes such as flammable substances and unstable substances and toxic substances. The ratings for a large number of chemicals/substances based on flammability, reactivity and toxicity have been given in NFPA Codes 49 and 345 M. In the proposed project expansion, HSD will be stored in-built tank of DG set for generation of power in case of grid failure. The details of HSD storage and its classification as per GOI rules are given in **Table-7.1**. Hazardous characteristics of HSD are listed in **Table-7.2**.

TABLE-7.1
APPLICABILITY OF GOI RULES TO FUEL

Sr. No.	Chemical/ Fuel	Listed in Schedule	Storage	Threshold Quantity (T) for Application of Rules	
				5,7-9,13-15	10-12
1	HSD	3 (1)	240 Lit – Inbuilt storage within DG set	25 MT	200 MT

TABLE-7.2
PROPERTIES OF STORAGE FUELS

Chemical/ Fuel	Codes/Label	TLV	FBP	MP	FP	UEL	LEL
			°C			%	
HSD	Flammable	5 mg/m^3	369	338	32.9	7.5	0.6

TLV : Threshold Limit Value
FBP : Final Boiling Point
MP : Melting Point
FP : Flash Point
UEL : Upper Explosive Limit
LEL : Lower Explosive Limit

7.1.4 Common Causes of Accidents

Based on the analysis of past accident information, common causes of accidents are identified as:

- Poor housekeeping;
- Improper use of tools, equipment, facilities;
- Unsafe or defective equipment facilities;
- Lack of proper procedures;
- Failure to follow prescribed procedures;
- Jobs not understood;
- Lack of awareness of involved hazards;
- Lack of guides and safety devices; and
- Lack of protective equipment and clothing.

7.1.5 Failures of Human Systems

Major causes of human failures reported are due to:

- Stress induced by poor equipment design, unfavourable environmental conditions, fatigue, etc.;
- Lack of training in safety and loss prevention;
- Indecision in critical situations; and
- Inexperienced staff being employed in hazardous situations.

Often, human errors are not analyzed while accident reporting and accident reports only provide information about equipment and/or component failures. Hence, a great deal of uncertainty surrounds analysis of failure of human systems and consequent damages.

7.2 Hazard Assessment and Evaluation

7.2.1 Methodology

An assessment of the conceptual design is conducted for the purpose of identifying and examining hazards related to utility and support systems, environmental factors, facilities, and safeguards.

7.2.2 Preliminary Hazard Analysis (PHA)

A preliminary hazard analysis is carried out initially to identify the major hazards associated with storage and the processes of the plant. This is followed by consequence analysis to quantify these hazards. The various process activities involved in the plant purely mechanical operations those are not complex or hazardous. Hence, no major hazards with potential for any emergency situation exist in the process plants. The other hazards related to the Plant and storage areas are given below in **Table - 7.3**.

TABLE - 7.3
PRELIMINARY HAZARD ANALYSIS FOR PROCESS AREAS

Equipment	Process	Potential Hazard	Provision
Induction furnaces	The MS scrap is charged into the furnace where it gets melted and is converted to liquid metal	▪ Charging a furnace with impure or moist scrap metal and alloys. ▪ Pouring or tipping the molten metal into a holding furnace or ladle. ▪ Pouring the molten metal from ladles into molds.	✓ Barriers and other protecting covering, including the mobile shields should be used. ✓ Set up to protect workers against the splashes of molten metal and electromagnetic radiation. ✓ Using of PPE (Personal Protective Equipment) must reduce or eliminate the risks associated with the handling of molten metal in melting unit.
Power Transformers	Transmit the power from high tension to low tension	Fire and explosion	All electrical fittings and cables are provided as per the specified standards
Switch Yard Control Room	-	Fire in cable galleries and switch	As above

TABLE-7.4
PRELIMINARY HAZARD ANALYSIS IN GENERAL

PHA Category	Description of Plausible Hazard	Recommendation	Provision
Environ-mental factors	If there is any leakage and eventuality of source of ignition.	-	All electrical fittings and cables will be provided as per the specified standards. All motor starters are flame proof.
	Highly inflammable nature of fuels may cause fire hazard in the storage facility.	A well designed fire protection including protein foam, dry powder, CO_2 extinguisher should be provided.	Fire extinguisher of small size and big size are provided at all potential fire hazard places. In addition to the above, fire hydrant network is also provided.

7.2.3 Maximum Credible Accident Analysis (MCAA)

Hazardous substances may be released as a result of failures or catastrophes, causing possible damage to the surrounding area. A disastrous situation may arise due to outcome of fire, explosion or toxic hazards in addition to other natural causes, which eventually lead to loss of life, property and ecological imbalance. Major hazards posed by flammable storage can be identified taking recourse to MCA analysis. Depending upon the effective hazardous attributes and their impact on the event, the maximum effect on the surrounding environment and the respective damage caused can be assessed.

The results of consequence analysis are useful for getting information about all known and unknown effects that are of importance when some failure scenario occurs in the proposed expansion activity and also to get information as how to deal with the possible catastrophic events. It also gives the residents in the project and people living in the vicinity of the area, an understanding of their personal situation.

Damage Criteria

The Inbuilt storage of HSD in the DG Set and unloading facility may lead to fire and explosion hazards. The damage criteria due to accidental release of any hydrocarbon arise from fire and explosion. The vapors of these fuels are not toxic and hence no effects of toxicity are expected.

Tank fire will occur if the radiation intensity is high on the peripheral surface of the tank leading to increase in internal tank pressure. Pool fire will occur when fuel collected in the dyke due to leakage gets ignited.

- **Fire Damage**

A flammable liquid in a pool will burn with a large turbulent diffusion flame. This releases heat based on the heat of combustion and the burning rate of the liquid. A part of the heat is radiated while the rest is convicted away by rising hot air and combustion products. The radiations can heat the contents of a nearby storage or process unit to above its ignition temperature and thus result in a spread of fire. The radiations can also cause severe burns or fatalities of workers or fire fighters located within a certain distance.

Hence, it will be important to know beforehand the damage potential of a flammable liquid pool likely to be created due to leakage or catastrophic failure of a storage or process vessel. This will help to decide the location of other storage vessels and decide the type of protective clothing the workers/fire fighters need, the duration of time for which they can be in the zone, the fire extinguishing measures needed and the protection methods needed for the nearby storage/process vessels. The damage effects on people and equipment due to thermal radiation intensity are presented in **Tables-7.5** and **Table-7.6** respectively.

TABLE-7.5
DAMAGE DUE TO INCIDENT RADIATION INTENSITIES

Sr. No.	Incident Radiation (kW/m^2)	Type of Damage Intensity	
		Damage to Equipment	**Damage to People**
1.	37.5	Damage to process equipment	100% lethality in 1 min. 1% lethality in 10 sec.
2.	25.0	Minimum energy required to ignite wood at indefinitely long exposure without a flame	50% Lethality in 1 min. Significant injury in 10 sec.
3.	19.0	Maximum thermal radiation intensity allowed on thermally unprotected adjoining equipment	-
4.	12.5	Minimum energy to ignite with a flame; melts plastic tubing	1% lethality in 1 min.
5.	4.5	-	Causes pain if duration is longer than 20 sec, however blistering is un-likely (First degree burns)
6.	1.6	-	Causes no discomfort on long exposures

Source: Techniques for Assessing Industrial Hazards by World Bank

The effect of incident radiation intensity and exposure time on lethality is given in **Table- 7.6**.

TABLE-7.6
RADIATION EXPOSURE AND LETHALITY

Radiation Intensity (kW/m^2)	Exposure Time (seconds)	Lethality (%)	Degree of Burns
1.6	--	0	No Discomfort even after long exposure
4.5	20	0	1st
4.5	50	0	1st
8.0	20	0	1st
8.0	50	<1	3rd
8.0	60	<1	3rd
12.0	20	<1	2nd
12.0	50	8	3rd
12.5	--	1	--
25.0	--	50	--
37.5	--	100	--

The Diesel is stored within the in-built storage tank so external storage is fuel is not necessary hence risk assessment has not been carried

7.2.4 Identification of Hazards, Assessment and their Management

The various hazards associated, apart from fuel storage with the plant process has been identified and has outlined in **Table-7.7.**

TABLE-7.7
HAZARD ANALYSIS FOR PROCESS IN STEEL PLANT

Sr. No.	Blocks/Areas	Hazards Identified
1	Induction furnace	Liquid metal
2	Switch-yard Control Room	Fire in cable galleries and Switch-gear/Control Room

7.2.5 Hazardous Events with Greatest Contribution to Fatality Risk

The hazardous event scenarios likely to make the greatest contribution to the risk of potential fatalities are summarized in **Table-7.8.** 'Onsite facility' refers to the operating site at AAP, whereas 'offsite facility' refers to transport and handling systems, which are away from the AAP operating site.

TABLE-7.8
HAZARDOUS EVENTS CONTRIBUTING TO ON-SITE FACILITY RISK

Hazardous Event	Risk Rank	Consequences of Interest
Onsite vehicle impact on personnel	3	Potential for single fatalities, onsite impact only
Entrapment/struck by Machinery	3	Potential for single fatalities, onsite impact only
Fall from heights	3	Potential for single fatalities, onsite impact only
Electrocution	3	Potential for single fatalities, onsite impact only
Storage stack collapse	3	Potential for single fatalities, onsite impact only

7.2.6 Risk Assessment Summary

The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:

- The industry is operating in SIPCOT Industrial complex with uninterrupted power supply & there is a petrol bunk within 3 km. There would not be necessity for bulk storage of Diesel hence the major impacts to community and environmental is less. Proper handling of fuel systems and machineries would reduce the probability; and
- The hazardous event scenarios and risks in general at this facility can be adequately managed to acceptable levels by performing the recommended safety studies as part of

detailed design, applying recommended control strategies and implementing a Safety Management System.

7.2.7 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector; and
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage; and
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

ANNEXURE XXV

PHOTOS OF FURNANCE



Real Time Data Acquisition And Monitoring

Site Name: KANISHK STEEL INDUSTRIES LIMITED

Report: Average Report

From Date: 13-02-2025T13:41:21Z To Date: 14-02-2025T13:41:21Z

Description	Induction_Furnace_Stack_21-PM(mg/m3)
Prescribed Standards	0 - 150
Maximum Data	130.5
Minimum Data	2.83
Geometric Mean	6.18
Median	3.0
Standard Deviation	14.73
Maximum Value At Time	2025-02-14 08:00:00
Minimum Value At Time	2025-02-13 16:15:00
Valid Data Points	85
Total Data Points	96
Data Availability %	88.54%

Sl No	Time	Induction_Furnace_Stack_21-PM(mg/m3)
1	2025-02-13 13:30:00	2.89
2	2025-02-13 13:45:00	2.91
3	2025-02-13 14:00:00	2.95
4	2025-02-13 14:15:00	3.11
5	2025-02-13 14:30:00	2.91
6	2025-02-13 14:45:00	2.87
7	2025-02-13 15:00:00	4.99
8	2025-02-13 15:15:00	3.19
9	2025-02-13 15:30:00	2.90
10	2025-02-13 15:45:00	2.96
11	2025-02-13 16:00:00	2.95
12	2025-02-13 16:15:00	2.83
13	2025-02-13 16:30:00	2.99
14	2025-02-13 16:45:00	2.93
15	2025-02-13 17:00:00	2.89
16	2025-02-13 17:15:00	2.92
17	2025-02-13 17:30:00	3.45
18	2025-02-13 17:45:00	2.94
19	2025-02-13 18:00:00	3.00
20	2025-02-13 18:15:00	2.92
21	2025-02-13 18:30:00	2.99
22	2025-02-13 18:45:00	2.98
23	2025-02-13 19:00:00	3.05
24	2025-02-13 19:15:00	2.99
25	2025-02-13 19:30:00	6.08
26	2025-02-13 19:45:00	11.82

Sl No	Time	Induction_Furnace_Stack_21-PM(mg/m3)
27	2025-02-13 20:00:00	3.02
28	2025-02-13 20:15:00	11.63
29	2025-02-13 20:30:00	5.48
30	2025-02-13 20:45:00	3.00
31	2025-02-13 21:00:00	3.02
32	2025-02-13 21:15:00	2.96
33	2025-02-13 21:30:00	3.04
34	2025-02-13 21:45:00	3.00
35	2025-02-13 22:00:00	3.03
36	2025-02-13 22:15:00	2.98
37	2025-02-13 22:30:00	2.97
38	2025-02-13 22:45:00	3.02
39	2025-02-13 23:00:00	2.98
40	2025-02-13 23:15:00	3.02
41	2025-02-13 23:30:00	2.97
42	2025-02-13 23:45:00	2.93
43	2025-02-14 00:00:00	3.04
44	2025-02-14 00:15:00	3.01
45	2025-02-14 00:30:00	2.95
46	2025-02-14 00:45:00	2.95
47	2025-02-14 01:00:00	3.05
48	2025-02-14 01:15:00	3.01
49	2025-02-14 01:30:00	2.99
50	2025-02-14 01:45:00	2.98
51	2025-02-14 02:00:00	2.99
52	2025-02-14 02:15:00	3.04
53	2025-02-14 02:30:00	2.97
54	2025-02-14 02:45:00	2.97
55	2025-02-14 03:00:00	24.46
56	2025-02-14 03:15:00	3.01
57	2025-02-14 03:30:00	3.03
58	2025-02-14 03:45:00	2.99
59	2025-02-14 04:00:00	3.04
60	2025-02-14 04:15:00	3.16
61	2025-02-14 04:30:00	2.99
62	2025-02-14 04:45:00	3.20
63	2025-02-14 05:00:00	3.03
64	2025-02-14 05:15:00	3.02
65	2025-02-14 05:30:00	2.99
66	2025-02-14 05:45:00	10.81
67	2025-02-14 06:00:00	7.25
68	2025-02-14 06:15:00	3.01
69	2025-02-14 06:30:00	2.99
70	2025-02-14 06:45:00	2.99
71	2025-02-14 07:00:00	3.00

Sl No	Time	Induction_Furnace_Stack_21-PM(mg/m3)
72	2025-02-14 07:15:00	3.01
73	2025-02-14 07:30:00	5.53
74	2025-02-14 07:45:00	10.93
75	2025-02-14 08:00:00	130.50
76	2025-02-14 08:15:00	18.06
77	2025-02-14 08:30:00	14.83
78	2025-02-14 08:45:00	2.95
79	2025-02-14 09:00:00	2.97
80	2025-02-14 09:15:00	2.95
81	2025-02-14 09:30:00	2.98
82	2025-02-14 09:45:00	4.13
83	2025-02-14 10:00:00	43.61
84	2025-02-14 10:15:00	8.24
85	2025-02-14 10:30:00	2.90
86	2025-02-14 10:45:00	NA
87	2025-02-14 11:00:00	NA
88	2025-02-14 11:15:00	NA
89	2025-02-14 11:30:00	NA
90	2025-02-14 11:45:00	NA
91	2025-02-14 12:00:00	NA
92	2025-02-14 12:15:00	NA
93	2025-02-14 12:30:00	NA
94	2025-02-14 12:45:00	NA
95	2025-02-14 13:00:00	NA
96	2025-02-14 13:15:00	NA

Report Details: KSL | 2025-02-18 13:42:37 | Average Report

Real Time Data Acquisition And Monitoring

Site Name: KANISHK STEEL INDUSTRIES LIMITED

Report: Average Report

From Date: 13-02-2025T13:41:21Z To Date: 14-02-2025T13:41:21Z

Description	Induction_Furnace_Stack-PM(mg/m3)
Prescribed Standards	0 - 150
Maximum Data	12.2
Minimum Data	0.85
Geometric Mean	2.76
Median	1.64
Standard Deviation	2.68
Maximum Value At Time	2025-02-13 15:15:00
Minimum Value At Time	2025-02-14 10:00:00
Valid Data Points	85
Total Data Points	96
Data Availability %	88.54%

Sl No	Time	Induction_Furnace_Stack-PM(mg/m3)
1	2025-02-13 13:30:00	10.55
2	2025-02-13 13:45:00	9.60
3	2025-02-13 14:00:00	10.94
4	2025-02-13 14:15:00	9.08
5	2025-02-13 14:30:00	8.86
6	2025-02-13 14:45:00	9.63
7	2025-02-13 15:00:00	9.51
8	2025-02-13 15:15:00	12.20
9	2025-02-13 15:30:00	7.73
10	2025-02-13 15:45:00	8.80
11	2025-02-13 16:00:00	4.09
12	2025-02-13 16:15:00	5.11
13	2025-02-13 16:30:00	3.16
14	2025-02-13 16:45:00	5.43
15	2025-02-13 17:00:00	4.05
16	2025-02-13 17:15:00	3.54
17	2025-02-13 17:30:00	1.90
18	2025-02-13 17:45:00	2.41
19	2025-02-13 18:00:00	2.36
20	2025-02-13 18:15:00	2.21
21	2025-02-13 18:30:00	1.58
22	2025-02-13 18:45:00	1.77
23	2025-02-13 19:00:00	1.70
24	2025-02-13 19:15:00	1.53
25	2025-02-13 19:30:00	1.70
26	2025-02-13 19:45:00	1.64

Sl No	Time	Induction_Furnace_Stack-PM(mg/m3)
27	2025-02-13 20:00:00	1.51
28	2025-02-13 20:15:00	1.85
29	2025-02-13 20:30:00	1.85
30	2025-02-13 20:45:00	1.57
31	2025-02-13 21:00:00	1.61
32	2025-02-13 21:15:00	1.66
33	2025-02-13 21:30:00	1.52
34	2025-02-13 21:45:00	1.44
35	2025-02-13 22:00:00	1.61
36	2025-02-13 22:15:00	1.73
37	2025-02-13 22:30:00	1.69
38	2025-02-13 22:45:00	1.46
39	2025-02-13 23:00:00	1.52
40	2025-02-13 23:15:00	1.50
41	2025-02-13 23:30:00	1.54
42	2025-02-13 23:45:00	1.49
43	2025-02-14 00:00:00	1.50
44	2025-02-14 00:15:00	1.52
45	2025-02-14 00:30:00	1.62
46	2025-02-14 00:45:00	1.47
47	2025-02-14 01:00:00	1.75
48	2025-02-14 01:15:00	1.66
49	2025-02-14 01:30:00	1.59
50	2025-02-14 01:45:00	1.53
51	2025-02-14 02:00:00	1.52
52	2025-02-14 02:15:00	1.49
53	2025-02-14 02:30:00	1.53
54	2025-02-14 02:45:00	1.50
55	2025-02-14 03:00:00	1.53
56	2025-02-14 03:15:00	1.48
57	2025-02-14 03:30:00	1.52
58	2025-02-14 03:45:00	1.72
59	2025-02-14 04:00:00	1.72
60	2025-02-14 04:15:00	1.67
61	2025-02-14 04:30:00	1.55
62	2025-02-14 04:45:00	1.60
63	2025-02-14 05:00:00	1.52
64	2025-02-14 05:15:00	1.50
65	2025-02-14 05:30:00	1.49
66	2025-02-14 05:45:00	1.60
67	2025-02-14 06:00:00	1.51
68	2025-02-14 06:15:00	1.57
69	2025-02-14 06:30:00	1.72
70	2025-02-14 06:45:00	1.68
71	2025-02-14 07:00:00	1.74

Sl No	Time	Induction_Furnace_Stack-PM(mg/m3)
72	2025-02-14 07:15:00	1.60
73	2025-02-14 07:30:00	1.52
74	2025-02-14 07:45:00	1.51
75	2025-02-14 08:00:00	1.60
76	2025-02-14 08:15:00	2.45
77	2025-02-14 08:30:00	1.96
78	2025-02-14 08:45:00	1.64
79	2025-02-14 09:00:00	1.65
80	2025-02-14 09:15:00	1.68
81	2025-02-14 09:30:00	1.72
82	2025-02-14 09:45:00	1.04
83	2025-02-14 10:00:00	0.85
84	2025-02-14 10:15:00	1.17
85	2025-02-14 10:30:00	1.50
86	2025-02-14 10:45:00	NA
87	2025-02-14 11:00:00	NA
88	2025-02-14 11:15:00	NA
89	2025-02-14 11:30:00	NA
90	2025-02-14 11:45:00	NA
91	2025-02-14 12:00:00	NA
92	2025-02-14 12:15:00	NA
93	2025-02-14 12:30:00	NA
94	2025-02-14 12:45:00	NA
95	2025-02-14 13:00:00	NA
96	2025-02-14 13:15:00	NA

Report Details: KSL | 2025-02-18 13:42:28 | Average Report

ANNEXURE XXVI

DISASTER MANAGEMENT PLAN & FUND DONATIONS DETAILS

detailed design, applying recommended control strategies and implementing a Safety Management System

7.2.3 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector, and;
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage;
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

victims. This includes the search for the dead and injured and removal of debris and social care, the provision of temporary shelter to the homeless food, clothing and medical supplies, and the rapid re-establishment of essential services.

7.3.1 Objectives of Disaster Management Plan (DMP)

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it will be widely circulated and personnel training given through rehearsals/drills.
The Disaster Management Plan would reflect the probable, consequential severity of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on currently available and reliable information, incident data from internal and external sources and if necessary the reports of outside agencies. To tackle the consequences of a major emergency inside the factory or immediate vicinity of the factory, a planned emergency document is prepared, called the "Disaster Management Plan"

The objective of the Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area; and
- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the Emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

7.3.2 Specific Emergencies Anticipated

Fire consequences can be disastrous, since they involve huge quantities of fuel either stored or in dynamic inventory in pipelines or in nearby areas. Toxic releases can affect persons working around. Preliminary hazard Analysis has provided a basis for consequence estimation.

7.3.3 Emergency Organization

It is recommended to set up an Emergency Organization. A senior executive who has control over the affairs of the plant would be heading the Emergency Organization. He would be designated at Site Controller. Works Manager would be designated as the Incident Controller. In the case of stores, utilities, open areas, which are not under the control of the Production Heads, Senior Executive responsible for maintenance of utilities would be designated as Incident Controller. All the Incident Controllers would be reporting to the Site Controller.

Each Incident Controller, for himself, organizes a team responsible for controlling the incidence with the personnel under his control. Shift In-charge would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.

Emergency co-ordinators would be appointed who would undertake the responsibilities like fire fighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, Security In-charge, Personnel Department, Essential services personnel would be engaged. All these personnel would be designated as Key personnel.

In each shift, electrical supervisor, electricians and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/plant offices would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.3.3.1 Emergency Communication

Whoever notices an emergency situation such as fire, escalation of fire, leakage etc will inform his immediate superior and Emergency Control Center. A place nearer to the security office shall be identified as Emergency Control Center. The person on duty in the Emergency Control Center would appraise the Site Controller. Site Controller verifies the situation from the Incident Controller of that area or the Shift In-charge and takes a decision about an impending On Site Emergency. This would be communicated to all the Incident Controllers, Emergency Co-ordinators. Simultaneously, the emergency warning system would be activated on the instructions of the Site Controller.

7.3.4 Onsite Emergency Preparedness and Response for Accidents

7.3.4.1 Emergency Responsibilities

The responsibilities of the key personnel are appended below:

Site Controller:

On receiving information about emergency he would rush to Emergency Control Center (ECC) and take charge of ECC and the situation and;

- Assesses the magnitude of the situation on the advice of incident Controller and decides, Whether the affected area needs to be evacuated,
- Whether personnel who are at assembly points need to be evacuated,
- Declare Emergency and order for operation of emergency siren,
- Organizes announcement by public address system about location of emergency,
- Assesses which areas are likely to be affected, or need to be evacuated or need to be alerted,
- Maintains a continuous review of possible development and assesses the situation in consultation with Incident Controller and other Key Personnel as to whether shutting down the plant or any section of the plant is required and if evacuation of persons is required,
- Directs personnel for rescue, rehabilitation, transport, fire, brigade, medical and other designated mutual support systems locally available, for meeting emergencies.
- Controls evacuation of affected areas, if the situation is likely to go out of control or effects are likely to go beyond the premises of the factory, informs the District Emergency Authority, Police, Hospital and seeks their intervention and help,

- Informs the Inspector of Factories, Deputy Chief Inspector of Factories, TNPCB and other statutory authorities,
- Gives a public statement if necessary,
- Keeps record of chronological events and prepares an investigation report and preserve evidence,
- On completion of On Site Emergency and restoration of normalcy, declares all clear and orders for all clear warning.

Incident Controller:

- Assembles the incident control team.
- Directs operations within the affected areas with the priorities for safety to personnel minimize damage to the plant, property and environment and minimize the loss of materials.
- Directs the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency.
- Ensure that key personnel help is sought.
- Provides advice and information to the Fire and Security Officer and the Local Fire Services as and when they arrive.
- Ensures that all non-essential workers/staff of the affected areas evacuated to the appropriate assembly points, and the areas are searched for casualties.
- Has regard to the need for preservation of evidence so as to facilitate any inquiry into the causes and circumstances, which caused or escalated the emergency.
- Co-ordinates with emergency services at the site.
- Provides tools and safety equipment to the team members.
- Keeps in touch with the team and advice them regarding the method of control to be used.
- Keeps the Site Controller of Emergency informed of the progress being made

Emergency Coordinator - Rescue, Fire Fighting:

- Helps the incident Controller in containment of the emergency;
- Ensures fire pumps are in operating conditions and instructs pump house operator to be ready for any emergency with standby arrangement;
- Guides the fire fighting crew i.e. firemen, trained plant personnel and security staff;
- Organizes shifting of the fire fighting facilities to the emergency site, if required;
- Takes guidance of the Incident Controller for fire fighting as well as assesses the requirements of outside help;
- Arranges to control the traffic at the gate and the incident area;
- Directs the security staff to the incident site to take part in the emergency operations under his guidance and supervision;
- Evacuates the people in the plant or in the nearby areas as advised by Site Controller;
- Searches for casualties and arranges proper aid for them;
- Assembles search and evacuation team;
- Arranges for safety equipment for the members of this team;
- Decides which paths the evacuated workers should follow;
- Maintains law and order in the area, and if necessary seeks the help of police.

Emergency Coordinator-Medical, Mutual Aid, Rehabilitation, Transport and Communication:

- In the event of failure of electric supply and thereby internal telephone, sets up communication point and establishes contact with the ECC;
- Organizes medical treatment to the injured and if necessary will shift the injured to nearby hospitals;
- Mobilizes extra medical help from outside, if necessary;
- Keeps a list of qualified first aid providers of the factory and seek their assistance;
- Maintains first aid and medical emergency requirements;
- Makes sure that all safety equipment is made available to the emergency team;
- Assists Site Controller with necessary data and to coordinate the emergency activities;
- Assists Site Controller in updating emergency plan, organizing mock drills verification of inventory of emergency facilities and furnishing report to Site Controller;
- Maintains liaison with Civil Administration;
- Ensures availability of canteen facilities and maintenance of rehabilitation center;
- He will be in liaison with Site Controller/Incident Controller;
- Ensures transportation facility;
- Ensures availability of necessary cash for rescue/rehabilitation and emergency expenditure;
- Controls rehabilitation of affected areas on discontinuation of emergency;
- Ensures availability of diesel/petrol for transport vehicles engaged in emergency operation.

Emergency Coordinator - Essential Services:

- He would assist Site Controller and Incident Controller.
- Maintains essential services like Diesel Generator, Water, Fire Water, Compressed Air/Instrument Air, power supply for lighting.
- He would plan alternate facilities in the event of power failure, to maintain essential services such as lighting, refrigeration plant etc.
- He would organize separate electrical connections for all utilities and emergency services so that in the event of emergency or fires, essential services and utilities are not affected.
- Gives necessary instructions regarding emergency electrical supply, isolation of certain sections etc. to shift in-charge and electricians.
- Ensures availability of adequate quantities of protective equipment and other emergency materials, spares etc.

General Responsibilities of Employees during an Emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers if they are in-charge of process equipment should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

7.3.4.2 Emergency Facilities

Emergency Control Center (ECC):

For the time being, Office Block or a place nearer to the security office is identified as Emergency Control Center. It would have external Telephone, Fax, and Telex facility. All the Site Controller/ Incident Controller Officers, Senior Personnel would be located here. Also, it

would be an elevated place. The following information and equipment are to be provided at the Emergency Control Center (ECC).

- Intercom, telephone
- P and T telephone
- Safe contained breathing apparatus
- Fire suit/gas tight goggles/gloves/helmets
- Hand tools, wind direction/velocities indications
- Public address megaphone, hand bell, telephone directories
- (Internal P and T) factory layout, site plan
- Emergency lamp/torch light/batteries
- Plan indicating locations of hazard inventories, plant control room, sources of safety equipment, work road plan, assembly points, rescue location vulnerable zones, escape routes.
- Hazard chart
- Emergency shut-down procedures
- Nominal roll of employees
- List of key personnel, list of essential employees, list of Emergency Co-ordinators
- Duties of key personnel
- Address with telephone numbers and key personnel, emergency coordinator, essential employees.
- Important address and telephone numbers including Government agencies, neighbouring industries and sources of help, out side experts, chemical fact sheets population details around the factory.

Assembly Point:

Number of assembly points depending upon the plant location would be identified wherein employees who are not directly connected with the disaster management would be assembled for safety and rescue. Emergency breathing apparatus, minimum facilities like water etc. would be organized. In view of the size of plant, different locations are ear marked as assembly points. Depending upon the location of hazard, the assembly points are to be used.

Fire Fighting Facilities:

First Aid Fire fighting equipment suitable for emergency should be maintained in each section in the plant. This would be as per statutory requirements. However, fire hydrant line covering major areas would be laid. It would be maintained at 6- kg/cm^2 pressure. Fire alarms would be located in the bulk storage areas. Fire officer will be the commanding officer of fire fighting services.

Location of Wind Sock:

On the top of the Administration block and the top of each production blocks, windsocks shall be installed to indicate direction of wind for emergency escape.

Emergency Medical Facilities:

Stretchers, gas masks and general first aid materials for dealing with fire burns would be maintained in the medical center as well as in the emergency control room. Medical superintendent of the township will be the head of the casuality services ward. Private medical practitioners help would be also are sought. Government hospital would be approached for emergency help.

Apart from plant first aid facilities, external facilities would be augmented. Names of Medical Personnel, Medical facilities in the area would be prepared and updated. Necessary specific medicines for emergency treatment of Burns for Patients and for those affected by toxicity would be maintained. Breathing apparatus and other emergency medical equipment would be provided and maintained. The help of near by industrial management in this regard would be taken on mutual support basis.

Ambulance:

An ambulance with driver availability in all the shifts and an emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift, first aid personnel would be available.

7.3.4.3 Emergency Actions

Emergency Warning

Communication of emergency would be made familiar to the personnel inside the plant and people outside. An emergency warning system shall be established.

Emergency Shutdown

There are number of facilities which can be provided to help deal with hazardous conditions, when a tank is on fire. The suggested arrangements are:

1. Stop the production;
2. Dilute contents;
3. Remove heat;
4. Deluge with water; and
5. Transfer contents.

Whether a given method is appropriate depends on the particular case. Cessation of agitation may be the best action in some instances but not in others. Stopping of the feed may require the provision of by pass arrangements.

Methods of removing additional heat include removal through the normal cooling arrangements or use of an emergency cooling system. Cooling facilities, which use vaporing liquid, may be particularly effective, since a large increase in vaporization can be obtained by dropping pressure.

Evacuation of Personnel:

There could be more number of persons in the storage area and other areas in the vicinity. The area would have adequate number of exits and staircases. In the event of an emergency, unconnected personnel have to escape to assembly point. Operators have to take emergency shutdown procedure and escape. Time Office maintains a copy of deployment of employees in each shift, at ECC. If necessary, persons can be evacuated by rescue teams.

All Clear Signal:

Also, at the end of an emergency, after discussing with Incident Controllers and Emergency Co-ordinators, the Site Controller orders an all clear signal. When it becomes essential, the Site Controller communicates to the District Emergency Authority, Police, and Fire service personnel regarding help required or development of the situation into an Off-Site Emergency.

7.3.4.4 General

Employee Information:

During an emergency, employees would be warned by raising siren in specific pattern. Employees would be given training of escape routes, taking shelter, protecting from toxic effects. Employees would be provided with information related to fire hazards, antidotes and first aid measures. Those who would be designated as key personnel and essential employees should be given training to emergency response.
Public Information and Warning:

The industrial disaster effects related to this plant may mostly be confined to the plant area. The detailed risk analysis has indicated that the pool fire effects would not be felt outside. However, as an abundant precaution, the information related to chemicals in use would be furnished to District Emergency Authority for necessary dissemination to general public and for any use during an off site emergency. Factories of this size and nature are in existence in our state since long time.

Co-ordination with Local Authorities:

Keeping in view of the nature of emergency, two levels of coordination are proposed. In the case of an On Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency, local authorities help should be sought.

In the event of an emergency developing into an off site emergency, local authority and District emergency Authority (normally the Collector) would be appraised and under his supervision, the Off Site Disaster Management Plan would be exercised. For this purpose, the facilities that are available locally, i.e. medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered. Necessary rehearsals and training in the form of mock drills should be organized.

Mutual Aid:

Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc should be sought from the neighboring industrial management.

Mock Drills:

Emergency preparedness is an important step in planning of Industrial Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel should be trained in the operations. Co-ordination meeting with the line Department officials for preparedness and implementation, viability and conduct of Mock Drill/ training should be conducted along with Divisional or Taluk level of Tiruvallur District.

Important Information:

Once the Plant goes into stream, important information such as names and addresses of key personnel, essential employees, medical personnel, outside the plant, transporters address, address of those connected with Off Site Emergency such as Police, Local Authorities, Fire Services, District Emergency Authority should be prepared and maintained.

7.3.5 Off-Site Emergency Preparedness Plan

7.3.5.1 Introduction

Off-site emergency plan follows the on-site emergency plan. When the consequences of an emergency situation go beyond the plant boundaries, it becomes an off-site emergency. Off-site emergency is essentially the responsibility of the public administration. However, the factory management will provide the public administration with the technical information relating to the nature, quantum and probable consequences on the neighbouring population. The off-site plan in detail will be based on those events, which are most likely to occur, but other less likely events, which have severe consequence, will also be considered. Incidents which have very severe consequences yet have a small probability of occurrence should also be considered during the preparation of the plan. However, the key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan.

The roles of the various parties who will be involved in the implementation of an off-site plan are described below. Depending on local arrangements, the responsibility for the off-site plan should be either rest with the works management or, with the local authority. Either way, the plan should identify an emergency co-ordinating officer, who would take the overall command of the off-site activities. As with the on-site plan, an emergency control center should be setup within which the emergency co-ordinating officer can operate.

An early decision will be required in many cases on the advice to be given to people living "within range" of the accident - in particular whether they should be evacuated or told to go indoors. In the latter case, the decision can regularly be reviewed in the event of an escalation of the incident. Consideration of evacuation may include the following factors:

a. In the case of a major fire but without explosion risk (e.g. an oil storage tank), only houses close to the fire likely need to be evacuated, although a severe smoke hazard may require this to be reviewed periodically;

b. If a fire is escalating and in turn threatening a store of hazardous material, it might be necessary to evacuate people nearby, but only if there is time; if insufficient time exists, people should be advised to stay indoors and shield them from the fire.

This latter case particularly applies if the installation at risk could produce a fireball with very severe thermal radiation effects;

c. For release or potential release of toxic materials, limited evacuation may be appropriate down wind, if there is time. The decision would depend partly on the type of housing "at risk". Conventional housing of solid construction with windows closed offers substantial protection from the effects of a toxic cloud, while shanty house, which exist close to factories, offer little or no protection.

The major difference between releases of toxic and flammable materials is that toxic clouds are generally hazardous down to much lower concentrations and therefore hazardous over greater distances. Also, a toxic cloud drifting at, say 300 m per minute covers a large area of land very quickly.

Any consideration of evacuation should take this into account. Although the plan will have sufficient flexibility built in to cover the consequences of the range of accidents identified for the on-site plan, it will cover in some detail the handling of the emergency to a particular distance from each major hazard works.

7.3.5.2 Aspects Proposed to be considered in the Off-Site Emergency Plan

The main aspects, which should be included in the emergency plan, are:

- **Organization**

Details of command structure, warning systems, implementation procedures, emergency control centers. Names and appointments of incident controller, site main controller, their deputies and other key personnel.

- **Communications**

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

- **Specialized knowledge**

Details of specialist bodies, firms and people upon whom it may be necessary to call e.g. those with specialized chemical knowledge and laboratories.

- **Voluntary organizations**

Details of organizers, telephone numbers, resources etc.

- **Chemical information**

Details of the hazardous substances stored or procedure on each site and a summary of the risks associated with them.

- **Meteorological information**

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

- **Humanitarian arrangements**

Transport, evacuation centers, emergency feeding treatment of injured, first aid, ambulances and temporary mortuaries.

- **Public information**

Arrangements for dealing with the media press office and informing relatives, etc.

- **Assessment of emergency plan**

Arrangements for: (a) Collecting information on the causes of the emergency; (b) Reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.3.5.3 Role of the Emergency Co-ordinating Officer

The various emergency services should be co-ordinated by an Emergency Co-ordinating Officer (ECO), who will be designated by the district collector. The ECO should liaison closely with the site main controller.

The Emergency Operation Center (EOC) functioning at each Taluk office Collectorate, round the clock. Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control should be passed to a senior local authority administrator or even an administrator appointed by the central or state government.

7.3.5.4 Role of the Local Authority

The duty to prepare the off-site plan lies with the local authorities. The Emergency Planning Officer (EPO) appointed should carry out his duty in preparing for a whole range of different emergencies within the local authority area. The EPO should liaison with the works, to obtain the information to provide the basis for the plan. This liaison should ensure that the plan is continually kept upto date.

It will be the responsibility of the EPO to ensure that all those organizations, which will be involved in off site handling of the emergency situation, know of their role and are able to accept it by having for example, sufficient staff and appropriate equipment to cover their particular responsibilities. Rehearsals for off-site plans should be organized by the EPO.

7.3.5.5 Role of Police

Formal duties of the police during an emergency include protecting life and property and controlling traffic movements. Their functions should include controlling bystanders, evacuating the public, identifying the dead and dealing with casualties, and informing relatives of death or injury.

7.3.5.6 Role of Fire Authorities

The control of a fire should be normally the responsibility of the senior fire brigade officer who would take over the handling of the fire from the site incident controller on arrival at the site. The senior fire brigade officer should also have a similar responsibility for other events, such as explosions and toxic release.

Fire authorities in the region should be appraised about the location of all stores of flammable materials, water and foam supply points, and fire-fighting equipment. They should be involved in on-site emergency rehearsals both as participants, and on occasion, as observers of exercises involving only site personnel.

7.3.5.7 Role of Health Authorities

Health authorities, including doctors, surgeons, hospitals, ambulances, and so on, should have a vital part to play following a major accident, and they should form an integral part of the emergency plan. For major fires, injuries should be the result of the effects of thermal radiation to a varying degree, and the knowledge and experience to handle this in all but extreme cases may be generally available in most hospitals. For major toxic releases, the effects vary according to the chemical in question, and the health authorities should be apprised about the likely toxic releases from the plant, which will enable them in dealing with the aftermath of a toxic release with treatment appropriate to such casualties. Major off-site incidents are likely to require medical equipment and facilities additional to those available locally, and a medical "mutual aid" scheme should exist to enable the assistance of neighbouring authorities to be obtained in the event of an emergency.

7.3.5.8 Role of Government Safety Authority

This will be the factory inspectorate available in the region. Inspectors are likely to satisfy themselves that the organization responsible for producing the off-site plan has made adequate arrangements for handling emergencies of all types including major emergencies. They may wish to see well-documented procedures and evidence of exercise undertaken to test the plan.

In the event of an accident, local arrangements regarding the role of the factory inspector will apply. These may vary from keeping a watching brief to a close involvement in advising on operations in case involvement in advising on operations. In cases where toxic gases may have been released, the factory inspectorate may be the only external agency with equipment and resources to carry out tests.

7.4 Occupational Health and Safety

Large industries, in general where numerous activities are involved during construction, erection, testing, commissioning, operation and maintenance, materials and machines are the basic inputs. Along with the boons, the industrialization generally brings several problems like occupational health and safety.

The industrial planner therefore has to properly plan and take the steps to minimize the impacts of industrialization and to ensure appropriate occupational health, safety including fire plans. All these activities again may be classified under construction and erection & operation and maintenance. The proposed safety plan is given below:

KANISHK STEEL INDUSTRIES LTD

Old No.4, New No.7, Thiru-Vi-Ka III Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919719
E-mail : info@kanishksteels.in

ISO 9001 : 200

Date: 07/12/2022

To,

The Tahsildar,

Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

Dear Sir,

With regard to your above subject letter requesting us to contribute for Flag Day Celebration year-2022. We are herewith enclosing our DD No:005244 Dt: 06/12/2022 for Rs.15000/-(Fifteen Thousand Only).

Thanking You,

Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory

P.L. 996532

IVR. அலுவலக

Received Rs.

HDFC BANK

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Rupees
रुपये

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FIFTEEN THOUSAND ONLY.

₹ *15,000.00

FOR VALUE RECEIVED

AUTHORISED SIGNATORIES
Please sign above

KANISHK STEEL INDUSTRIES LIMITED
CHENNAI - RK SALAI
CHENNAI - 600004
REF. No. 071612005714

SESHASAYEE / CTS-2010

⑈005244⑈ 600240002⑆ 999989⑈ 12



KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date:10.11.2022

To,

The Executive Officer ,

Town panchayat, Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

Dear Sir,

With regard to your above subject letter requesting us to contribute for Flag Day Celebration year-2022. We are herewith enclosing our DD No:005156 Dt: 09.11.2022 for Rs.25000/-(Twenty Five Thousand Only).

Thanking You,

Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory.

HDFC BANK

A/C PAYEE ONLY
NOT NEGOTIABLE

MANAGER'S CHEQUE

VALID FOR 3 MONTHS ONLY

0 9 1 1 2 0 2
D D M M Y

Pay
अदा करें
*** ARMED FORCES FLAG DAY FUND ***
या उनके आदे

Rupees
रुपये
TWENTY FIVE THOUSAND ONLY

₹ *25,000.00

FOR VALUE RECEIVED

KANISHK STEEL INDUSTRIES LIMITED
CHENNAI-RK SALAI
CHENNAI - 600004
REF No. 0716200612

AUTHORISED SIGNATORIES
Please sign above

SECHWQMIC) / CTS 2010

⑈005156⑈ 600240002⑆ 999989⑈ 12

விடுநர்

திரு. ப.ர. ஜானகிராமன்,
செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
திருவள்ளூர் மாவட்டம்.

பெறுநர் ஐ.சி.ஸ்.டேன்ஸ் சி.கிலைட்
தேர்கோட்
சென்னைப்பகுதி

ந.க.எண்.37 / 2017 / அ1 நாள்.06.09.2017

அய்யா,

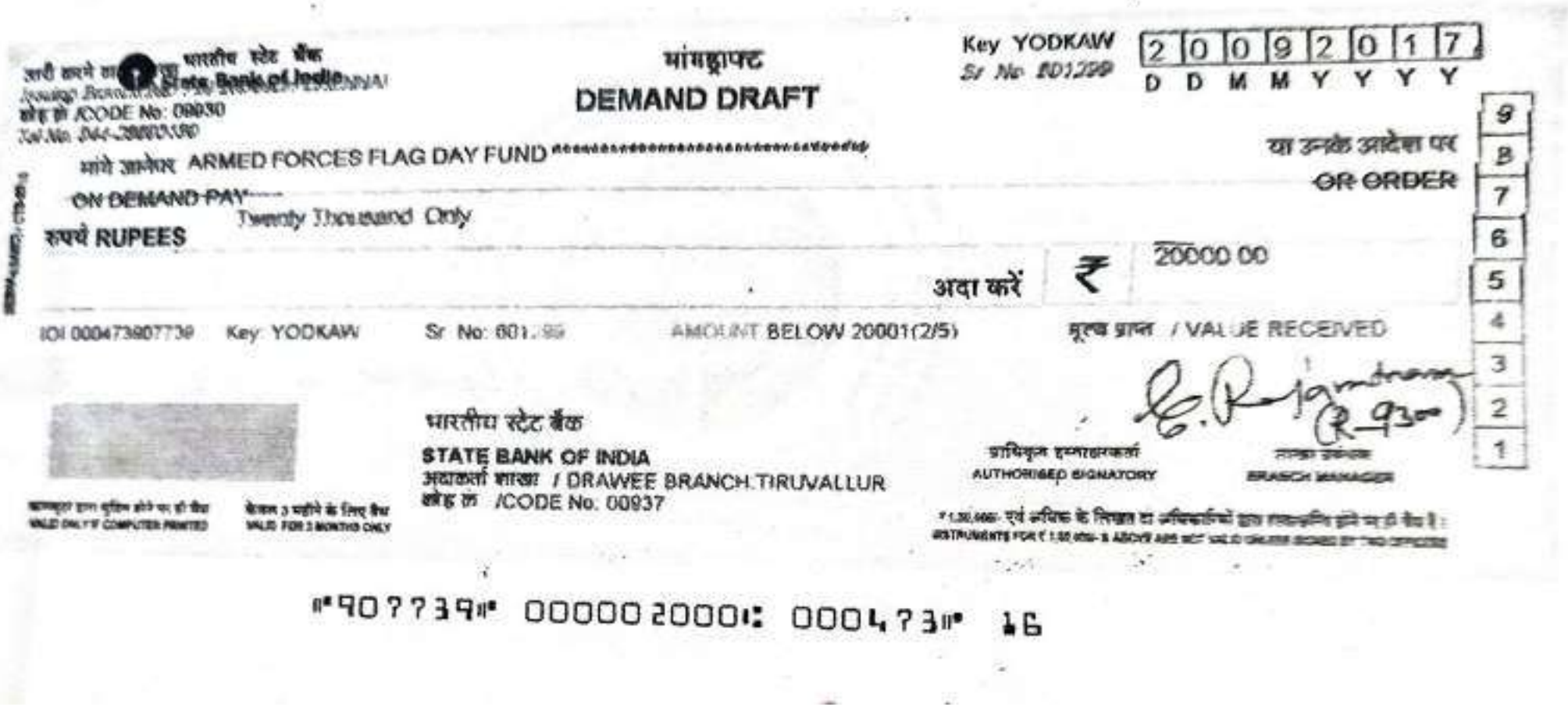
பொருள் : படைவீரர் நலம் – கும்முடிப்பூண்டி பேரூராட்சி – திருவள்ளூர் மாவட்டம் – நன்கொடை வசூல் செய்தல் இலக்கு நிர்ணயித்து ஆணையிட்டுள்ளது – படைவீரர் கொடி நாள் நன்கொடை வழங்கக் கோருதல் – தொடர்பாக.

பார்வை : மாவட்ட ஆட்சித் தலைவர், திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறை ஆணை ந.க. எண்.4900/2016/அ1 நாள்.22.02.2017.

திருவள்ளூர் மாவட்டம் கும்முடிப்பூண்டி பேரூராட்சிக்கு முன்னாள் படைவீரர் கொடிநாள் நிதி 2016 ம் ஆண்டிற்கு இலக்காக ரூ.3,00,000/– வசூல் செய்ய நிர்ணயம் செய்து பார்வையில் காணும் மாவட்ட ஆட்சித் தலைவர் திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறையில் உத்திரவிடப்பட்டுள்ளது. எனவே, தங்கள் நிறுவனத்தின் மூலம் ரூ.20,000/– க்கு ARMED FORCES FLAG DAY FUND என்ற பெயரில் வங்கி வரைவோலையாக (Payable at Tiruvallur) திருவள்ளூரில் மாற்றத் தக்க வகையில் எடுத்து இப்பேரூராட்சிக்கு அனுப்பி வைக்குமாறு அன்புடன் கேட்டுக் கொள்கிறேன்.

மேலும், இப்படை வீரர் கொடி நாளுக்கென வசூலிக்கப்படும் நிதி அந்நிய படையெடுப்புகளை முறியடிப்பதில் முனைந்து போரிட்டு இன்னுயிர் நீர்த்த மற்றும் உடல் உறுப்புகளை இழந்து நாட்டு வரலாற்று சுடர்மணிகளாய் ஒளிவிடும் போர் வீரர்களின் குடும்பத்தின் நலனிற்கு பயன்படுத்தப்படுகிறது. படைவீரர் கொடி நாளுக்கு வழங்கப்படும் நன்கொடைக்கு வருமான சட்டப்பிரிவு 80 (G) –ன் கீழ் வருமான வரி விலக்கு அளிக்கப்பட்டுள்ளது எனவும் தெரிவித்துக் கொள்ளப்படுகிறது. எனவே, கருணை உள்ளத்தோடு தாராளமாக நிதி உதவி அளிக்குமாறு தங்களை வேண்டி கேட்டுக் கொள்கிறோம்.

செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
திருவள்ளூர் மாவட்டம்



जारी करने वा... भारतीय स्टेट बैंक
State Bank of India
...NAI
कोड सं /CODE No: 09030
Tel.No. 044-28...

मांगपत्राफ्ट
DEMAND DRAFT

Key YODKAW
Sr No: 601...

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IOI 0004738077 39 Key: YODKAW Sr No: 601...89 AMOUNT BELOW 20001(2/5) मूल्य प्राप्त / VALUE RECEIVED

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STATE BANK OF INDIA
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कोड सं /CODE No. 00937

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AUTHORISED SIGNATORY

शाखा प्रबंधक
BRANCH MANAGER

₹ 1,00,000/- एवं अधिक के लिखत दो अधिकारियों द्वारा हस्ताक्षरित होने चाहिये।
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कम्प्यूटर द्वारा मुद्रित होने पर ही वैध
VALID ONLY IF COMPUTER PRINTED

केवल 3 महीने के लिए वैध
VALID FOR 3 MONTHS ONLY

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⑈907739⑈ 00000 2000⑆ 00047 3⑈ 16

ஸ்ரீ மாத்தம்மா துணை

அருள்மிகு ஸ்ரீ மாத்தம்மா ஆலயம் திருவிழா

கங்கன்தொட்டி, கும்மிடிப்பூண்டி - 601 201.

நன்கொடை ரசீது

எண்: 168

தேதி 20/3/22

திருமதி/திரு. Kamalika Sri Sudarsan

அவர்களிடமிருந்து நன்கொடையாக ரூபாய் ..... One Lakh Only

அன்புடன் பெற்றுக்கொண்டோம்.

ரூ. 100000/-

வசூலிப்பவர்

स्वच्छ गंगा कोष
Clean Ganga Fund

File No: CGF-01/2014-15/518/NMCG
Sr. No. CGF/2021-22/41

12th September 2022

Letter of Acknowledgement & Appreciation

To

M/s KANISHK STEEL INDUSTRIES LTD.
B-27(M) Sipcot Industrial Complex,
Gummidipoondi - 601201
Chennai
PAN: AABCK2367G

Dear Sir,

We hereby acknowledge the receipt of your valuable contribution of **₹ 6,98,200/- (Rupees Six Lakh Ninety Eight Thousand Two Hundred Only)** to Clean Ganga Fund through RTGS UTR NO: HDFCR52022090693932212 dated 06.09.2022

2. We sincerely thank you for contributing to this national endeavor to rejuvenate the River Ganga under your CSR obligations, and request for your continued support in coming years.

3. The donation will be utilized for various activities to support the national effort to restore and rejuvenate the River Ganga, including ecological protection through afforestation, in-situ bioremediation of drains, sewage treatment, river-surface cleaning, industrial effluent monitoring, public outreach and river front development including construction, renovation, and modernization of ghats and crematoria etc.

4. We thank you once again for your contribution and look forward to your continued support in rejuvenating the River Ganga.

CGF PAN No. AABTC7844F

Yours sincerely,

(Bhaskar Dasgupta)
ED (Finance), NMCG
(For CEO, Clean Ganga Fund)

ANNEXURE XXVII

EMP COST AND BANK ACCOUNT WITH HEAD WISE EXPENSES STATEMENT

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

ENVIRONMENTAL MEASURES PLAN

Sr.No.	Description of Item	Cost (Rs. in Lakhs)
1	Air pollution control system	110.72
2	Water pollution control system	40.9
3	Environmental Monitoring	4.13
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	170.89

Source: KSIL, Gummidipoondi

KANISHK STEEL INDUSTRIES LTD

Director

Air Bill				
S NO	Inv NO.	Party Name	Amount	
1	PK423209	PK Enterprises	720272	
2	PK423203	PK Enterprises	929368	
3	PK423202	PK Enterprises	803462	
4	PK423201	PK Enterprises	918335	
5	PK423206	PK Enterprises	1134452	
6	PK423207	PK Enterprises	1166902	
7	PK423204	PK Enterprises	1016983	
8	PK423208	PK Enterprises	993619	
9	PK423207	PK Enterprises	1166902	
10	TI/18	SR Enterlink	200600	
11	EX/23-24/2149	GSE Filter Pvt Ltd	266000	
12	EX/23-24/2361	GSE Filter Pvt Ltd	21616	
13	010	Mianzi Enterprises	9511	
14	CPS230688	Chennai Pneumatics	122062	
15	UE/24-25/150	Universal Equipments	123900	
16	119	A Gunaseeli	37088	
17		Kalyan Mechanical Works	200000	
18	PGS-095	Power Guard System	9440	
19	B 009	SSS Engineering & Contracto	1030941	
20		Chennai Pneumatics	200600	
	TOTAL		**11072053**	

21	1494/23-24	Nevco Engineers Pvt Ltd	413000	Environment

Water

S.NO	Inv No	Party Name	Amount
1	PCTEL/222/23-24	Paltech Cooling Tower	2665620
2	PCTEL/447/23-24	Paltech Cooling Tower	587726
3	PCTEL/637/23-24	Paltech Cooling Tower	49896
4	005	Viswa Equipment Pvt Ltd	787500
			4090742

Recurring cost

S.no	Inv No	Party Name	Amount
1	418	RS Electrical	324500
2	4663	TNT Paints	9723
3	4699	TNT Paints	27352
4	4700	TNT Paints	23293
5	4705	TNT Paints	17936
6	4795	TNT Paints	40781
7	4812	TNT Paints	24214
8	4889	TNT Paints	9204
9	4882	TNT Paints	18573
10	4916	TNT Paints	13339
11	UE/24-25/150	Universal Equipment	123900
12	790	GSE Filter	10384
13	54	Marine Machinery	49560
14	10569	Wadhawan Engineers	167395
15	10731	Wadhawan Engineers	33078
16	241	Chennai Pneumatics	67713
17	18	Chennai Pneumatics	21240
18	272	Chennai Pneumatics	9878
19	CPS230688	Chennai Pneumatics	122062
Total			**1114125**

MANISHA STEEL INDUSTRIES LTD

Director

Bill of Supply

Earth Sense Agro Products Pvt Ltd Farm
R.D. 43/1, Besant Avenue Road, Adyar, Chennai-20
B.O 1/185, Janappan Chatram Cross Road
Alinjivakkam Village, Ponneri Tk
Tamil Nadu - 600067, India
GSTIN/UIN : 33AABCH7654R1Z0
State Name : Tamil Nadu, Code : 33
Consignee (Ship to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33
Buyer (Bill to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33

Invoice No	Dated
CS167/24-25	**10-Jan-25**
Delivery Note	Mode/Terms of Payment
Reference No. & Date	Other References
Buyer's Order No	Dated
Dispatch Doc No	Delivery Note Date
Dispatched through	Destination
Terms of Delivery	

Sl No	Description of Goods	HSN/SAC	Quantity	Rate (Incl. of Tax)	Rate	per	Amount
1	**Peltophorum**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
2	**Badham**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
3	**Gulmohar**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
4	**Pungai**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
5	**Spethodia Big**	0601	**20 Nos**	290.00	290.00	Nos	**5,800.00**
6	**Sapota Sapling**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
7	**Madulai**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
8	**Guava Plant**	0601	**5 Nos**	200.00	200.00	Nos	**1,000.00**
9	**Water Apple**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
10	**Potting Mix 20 Kg Bag**	3101	**200 Bag**	95.00	95.00	Bag	**19,000.00**

Total **₹ 38,000.00**
E. & O.E

Amount Chargeable (in words)
Indian Rupees Thirty Eight Thousand Only

HSN/SAC	Taxable Value
0601	19,000.00
3101	19,000.00
Total	**38,000.00**

Tax Amount (in words) : **NIL**

Company's Bank Details
Bank Name : **State Bank of India**
A/c No. : **35744653932**
Branch & IFS Code : **JANAPPAN CHATHIRAM & SBIN0007594**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

for Earth Sense Agro Products Pvt Ltd Farm

For EarthSense Agro Products Pvt. Ltd.
Authorised Signatory

This is a Computer Generated Invoice

Authorised Signatory

SBI

Account Name	KANISHK STEEL INDUSTRIES LIMITED
Address	: OLD NO 4 NEW NO.7 THIRU-VI-KA 3RD ST ROYAPETTAH HIGH ROAD MYLAPORE-600004 OLD NO 4 NEW NO.7 THIRU-VI-KA 3RD ST
Date	: 29 Apr 2024
Account Number	: 00000042267303781
Account Description	: CA-PLATINUM-PUB-OTH-ALL-INR
Drawing Power	: 0.00
Interest Rate(% p.a.)	: 0.0000
MOD Balance	: 0.00
CIF No.	: 78321016803
IFS Code	: SBIN0001793
MICR Code	: 600002043
Nomination Registered	: No
Balance as on 1 Oct 2023	: 0.00

Account Statement from 1 Oct 2023 to 31 Mar 2024

Txn Date	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
10 Oct 2023	10 Oct 2023	BY TRANSFER-RTGS UTR NO: HDFCR52023101094394263-KANISHK STEEL INDUSTRIES LIMITED	TRANSFER FROM 3199856044300 / KANISHK STEEL INDUSTRIES LIMITED		45,00,000.00	45,00,000.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077016433-494811 GSE FILTER PRIVATE LIMITED	494811 GSE FILTER PRIVATE LIMITED	3,84,450.00		41,15,550.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077073383-494812 SSS ENGINEERING AND CONTRACTORS	494812 SSS ENGINEERING AND CONTRACTORS	10,13,467.00		31,02,083.00
11 Oct 2023	11 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101177290337-494813 S R ENTERLINK	494813 S R ENTERLINK	2,00,600.00		29,01,483.00
16 Oct 2023	16 Oct 2023	CHQ TRANSFER-NEFT UTR NO: SBIN323289810702-494814 KALYAN MECHANICAL WORKS	494814 KALYAN MECHANICAL WORKS	1,96,000.00		27,05,483.00
27 Oct 2023	27 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023102780344376-494816 GSE FILTER PRIVATE LIMITED	494816 GSE FILTER PRIVATE LIMITED	2,66,000.00		24,39,483.00
1 Nov 2023	1 Nov 2023	TO CLEARING-Chq No. 494815 INB AGUNASEELI-494815	494815	37,088.00		24,02,395.00
7 Nov 2023	7 Nov 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023110782578851-494817 KALYAN MECHANICAL WORKS	494817 KALYAN MECHANICAL WORKS	2,00,000.00		22,02,395.00
23 Nov 2023	23 Nov 2023	CHQ TRANSFER-NEFT UTR NO: SBIN523327311970-494818 KALYAN MECHANICAL WORKS	494818 KALYAN MECHANICAL WORKS	94,000.00		21,08,395.00

ate	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
19 Dec 2023	19 Dec 2023	TO CLEARING-Chq No. 494819 HDF GSE FILTER PRIVATE LIMITE-494819	494819	21,616.00		20,86,779.00
3 Jan 2024	3 Jan 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024010393713672-494820 NEVCO ENGINEERS PVT LTD	494820 NEVCO ENGINEERS PVT LTD	4,13,000.00		16,73,779.00
2 Feb 2024	2 Feb 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024020299796536-494822 R S ELECTRICAL WORKS	494822 R S ELECTRICAL WORKS	3,24,500.00		13,49,279.00
12 Mar 2024	12 Mar 2024	A/C Keeping Chgs--		321.65		13,48,957.35

Please do not share your ATM, Debit/Credit card number, PIN and OTP with anyone over mail, SMS, phone call or any other media. Bank never asks for such information.

**This is a computer generated statement and does not require a signature.



KANISHK STEEL IND LTD (2024-25)

Old No 4 New No 7,
Thiru Vi Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004
E-Mail accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Apr-24 to 13-Feb-25

Date		Particulars	Vch Type	Vch No.	Debit	Credit
1-Apr-24	Cr	**Opening Balance**			**13,48,957.35**	
29-Apr-24	Dr	**CHENNAI PNEUMATICS**	BANK PAYMENT	CH NO: 494823		1,50,000.00
17-Jun-24	Dr	**POWER GUARD SYSTEM**	BANK PAYMENT	CH NO: 494824		9,440.00
24-Jun-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIJUN24/CA-001		10,384.00
25-Jun-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA-002		9,511.00
26-Jun-24	Dr	**UNIVERSAL EQUIPMENTS**	BANK PAYMENT	SBIJUN24/CA-003		75,000.00
28-Aug-24	Dr	ANGALAMN ENGINEERING AND TECH	BANK PAYMENT	SBIAUG24/CA-001		1,17,233.00
30-Aug-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA		18,290.00
	Dr	ANGALAMN ENGINEERING AND TECH	BANK PAYMENT	SBIAUG24/CA-002		2,12,280.00
12-Sep-24	Dr	**NEVCO ENGINEERS PVT LTD**	BANK PAYMENT	SBISEP24/CA-001		1,00,300.00
23-Dec-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIDEC24/001		1,00,016.00
					13,48,957.35	8,02,454.00
	Dr	**Closing Balance**				5,46,503.35
					13,48,957.35	**13,48,957.35**

KANISHK STEEL IND LTD (2023-24)

Old No.4,New No.7,
Thiru-Vi-Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004.
E-Mail : accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Oct-23 to 31-Mar-24

Date		Particulars	Vch Type	Vch No.	Debit	Credit
10-Oct-23	Cr	HDFC BANK- CURRENT A/C (NEW)	Contra	SBI/CONTRA1	45,00,000.00	
	Dr	SSS ENGINEERING & CONTRACTORS	BANK PAYMENT	CH NO:494812/RTGS		10,13,467.00
	Dr	S R ENTERLINK	BANK PAYMENT	CH NO:494813/RTGS		2,00,600.00
	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494811/RTGS		3,84,450.00
16-Oct-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494814/RTGS		1,96,000.00
21-Oct-23	Dr	A. GUNASEELI - CONTRACTOR	BANK PAYMENT	CH NO:494815/CHEQ		37,088.00
27-Oct-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494816/RTGS		2,66,000.00
7-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494817/RTGS		2,00,000.00
23-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494818/RTGS		94,000.00
18-Dec-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494819/RTGS		21,616.00
3-Jan-24	Dr	NEVCO ENGINEERS PVT LTD	BANK PAYMENT	CH NO:494820/RTGS		4,13,000.00
2-Feb-24	Dr	R.S. ELECTRICAL WORKS	BANK PAYMENT	CH NO:494822/RTGS		3,24,500.00
12-Mar-24	Dr	BANK CHARGES	BANK PAYMENT	BANK CHARGES		321.65
					45,00,000.00	31,51,042.65
	Dr	Closing Balance				13,48,957.35
					45,00,000.00	**45,00,000.00**

ANNEXURE XXVIII

LETTER OF AGREED TO COMPLIED EC CONDITONS UNDERTAKE FOR CSR ACTIVITY

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To **Date: 18/02/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on 13.02.2025.

With reference to the inspection of M/s Kanishk Steel Industries Limited at Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District, conducted by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO,

We hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

GENERAL CONDITIONS

SI.NO. 8: CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within5 km of the site and in constant consultation with the village Panchayat and the District Administration.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD

Old No.4, New No.7, Thiru-Vi-Ka III Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919719
E-mail : info@kanishksteels.in

ISO 9001 : 2008

M/s Kanishk Steel Industries Limited

Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District -601201

CSR ACTIVITIES

Sl.No	Social Project Completed	Cost (Rs. In Lakhs)
1.	PRIMARY SCHOOL VIVEKANDHA NAGAR GUMMIDIPOONDI – 601201. DRINKING WATER BORE AND TANK INSTALLED	1.4
2.	SCHOOL BAG KITS GIVEN TO THE PRIMARY SCHOOL	0.15
3.	AROUND 600 TREES PLANTED IN AND AROUND OUR COMPANY AND TREE GUARDS (MESH) GIVE TO GUMMIDIPOONDI TOWAN PANCHYT	1.358
4.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2022-2023	14.69
5.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2023-24	19.02
6.	CST ACTIVITY COST SPENT AT FINANCIAL YEAR 2024- TILL JULY	6.60
	Total	43.22

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

Sri Venkateshwara's

Cell : 94449 36789

Date : 24-11-2017

STEEL INDUSTRIES LTD.

BORE AT GOVT ELEMENTARY SCHOOL

Sub: Bill for Borewell 150 FEETS AT SCHOOL.

Description of Work / Materials	Rate / Qty	Amount
Drilling charge for Bore Well	Per Ft Rs. 200/150	30,000
Bore Reaming, Pipe Erection, and Pebbles Filling	Per Ft Rs. 60/150	9,000
PVC Casing Pipe	Per Ft Rs. 210/150	31,500
Slot Making Charge	Per Ft Rs. 15/100	1500
Slot Cap	1 No Rs. 250/1	250
Bentonite (Mud Powder)	1 Bag Rs. 500/5	2500
Pebbles (Jally)	1 Unit Rs. 15000/1.5	22500
Transporation charges for pipes & Pebbles etc.	L.S. Rs. 2000/-	2000
Compressor Air Flushing	Per Hr Rs. 1000/5	5000
WATER TANK SUPPLY	4 TANKS 500/4	2000
	Total Amount	106250

ONE LAKH SIX THOUSAND TWO HUNDRED AND FIFTY ONLY

Thanking you,

Yours faithfully,

For S.V. BORE WELLS

Tax Invoice

(ORIGINAL FOR RECIPIENT)

Electric Stores
ndappa Naicken Street
600001
4 33AASPS6575J1ZX
Tamil Nadu Code 33
3444203 3854 9840015095
rajasthanelectricstores@gmail.com

Steel **Industries Ltd**
Spicol Industrial Complex
und
N 33AABCK2367G1ZS
me Tamil Nad Code 33
Supply Tamil Nad

Invoice No	Dated
13440	**1-Mar-2019**
Delivery Note	Mode/Terms of Payment
Supplier's Ref	Other Reference(s)
Buyer's Order No	Dated
Despatch Document No	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
nm x 3C **Submersible Cop Wire**	8544	18 %	**110.00 MTS**	85.00	MTS	**9,350.00**
CGST Output @ 9%				9	%	**842.00**
SGST Output @ 9%				9	%	**842.00**
Total			**110.00 MTS**			**₹ 11,034.00**

E & O E

argeable in words
an Thousand Thirty Four Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
	9,350.00	9%	842.00	9%	842.00	1,684.00
Total	**9,350.00**		**842.00**		**842.00**	**1,684.00**

in words **INR One Thousand Six Hundred Eighty Four Only**

's PAN **AJSPS6575J**

Company's Bank Details
Bank Name La[illegible]shmi Vilas Bank
A/c No 04[illegible]'351000004431
Branch & IFS Code GU[illegible] Street & LAVB0000427

that this invoice shows the actual price of the goods and that all particulars are true and correct

for Rajasthan Electric Stores

Seal and Signature

Authorised Signatory

SUBJECT TO CHENNAI JURISDICTION

This is a Computer Generated Invoice

(DUPLICATE FOR TRANSPORTER)

GSTIN : 33ARGPS1522G1Z2

Subject to Chennai Jurisdiction

TAX INVOICE BILL

Phone : 25244858, 25225066
E-mail : ajitgensel@yahoo.co.in

AJIT ENGINEERING CORPORATION

New No. 286, (Old No. 191) Thambu Chetty Street, Chennai - 600 001.

MICROTEK Digital Inverters, Exide Batteries
MEX Starters, CRI Pumps, Kirloskar Diesel Generators
and Electrical Accessories

No. 15985

Date : 21/2/20

To Kanishk Steel Industries Ltd.,

S-27, MIDC SIPCOT Industrial Complex,

Gummidipoondi - 601201. GSTIN: 33AABCK2367G1ZS

Your Order No. ..... Dated ..... Goods Despatched through PO 48 dtd 15.2.07.

Qty.	PARTICULARS	Rate	Per	AMOUNT Rs.	P.
1no	HP CRI 9 stage Submersible pump			11428	A
				686	
	CGST 6%			686	
	SGST 6%				
				12800	

Rs. 12800/-
E.&O.E.

KAN... STEEL IND... PVT. LTD.
MIDC
Received Rs. 12800
Date 21/2/07

Note : Our responsibility ceases once the goods leave our premises. No claim will be allowed by us for any loss or damage in transit.

Authorised Distributors in :

MICROTEK LARSEN & TOUBRO EXIDE

For AJIT ENGINEERING CORPORATION

C.R.I. PUMPS

PRAVEEN TUBES CORPORATION

DCP

25268067,
25272244,
praveentu
www.praveentu
33AAAFP5

[illegible] Pipe [illegible]

8), POST OFFICE STREET, GREEN[illegible]

PAY ORDER, D.D. & RTGS ONLY ACCEPTED FOR INVOICE BILLS

CREDIT BILL

[illegible] Industrial [illegible]

Industrial Coimbtr

[illegible] 9843044883

[illegible] 33AABFK2364G1ZS

CREDIT BILL No. IN15/23 Date 27/02/20

Despatched thr [illegible] to

Document through PAID CHEQUE NO.5624

Order No.

P.O Date

S.No.	DESCRIPTION	HSN CODE	QTY.	RATE	UNIT	DIS.%	TAX%	A
1	Submersible Adopters 7	8072900	1	788.44	EACH		18.00	
2	Submersible Pipe STD 3	9172390	80	155.80	MTR		18.00	
	Coupler Type							

[illegible] 132

[illegible] ashi [illegible]

[illegible]	CGST%	CGST Value	SGST%	SGST Value
[illegible]	9.00	446.62	9.00	446.62

Sub Total:	4962
Bill Discount:	0
Goods & Wages recd:	0
Total CGST:	446
Total SGST:	446
Rounded off:	
GROSS AMOUNT:	**56**

Rupees [illegible] Thousand Eight Hundred Fifty Six Only

[illegible] RAMASEKAR

1/1

[illegible] 12.58 PM

Bank Name: DHANLAXMI BANK [illegible]

For PRAVEEN TUBES CORP

அனுப்புநர்:

தலைமை ஆசிரியர்,
உயர்நிலை பள்ளி,
விவேகானந்தா நகர்

பெறுநர்:

O.P. Steel Company,
சிவகாசி அலுவலகம்,
கும்மிடிப்பூண்டி.

ஐயா,

பொருள்: ஏழை பள்ளி மாணவர்களுக்கு நல உதவிகள் வேண்டி.

உயர்நிலை பள்ளி விவேகானந்தா நகர் பள்ளியின் ஏழை மாணவர்களுக்கு நல உதவிகள் வழங்கி வருகிறோம். அவர்களுக்கு நடப்பு கல்வியாண்டு முடிந்து நல உதவிகளை வழங்கி முடிக்க உதவுமாறு தாழ்மையுடன் கேட்டுக்கொள்கிறோம்.

மாணவர்களுக்கு Bag வழங்கியதற்கு மிக்க நன்றி.

2017

தலைமை ஆசிரியர்
உயர்நிலை பள்ளி
விவேகானந்தா நகர்
கும்மிடிப்பூண்டி ஒன்றியம்
திருவள்ளூர் மாவட்டம்

தலைமை ஆசிரியர்
உயர்நிலை பள்ளி
விவேகானந்தா நகர்
கும்மிடிப்பூண்டி ஒன்றியம்
திருவள்ளூர் மாவட்டம்

தலைமை ஆசிரியை,
ஊ.ஒ.தொ.பள்ளி,
விவேகானந்தா நகர்,
தம்மிடிப்பூண்டி.

மேலாளர்:
C.P. Steel Company,
சிப்காட் தொழிலகம்,
தம்மிடிப்பூண்டி.

ஐயா!

பொருள்: ஆழ்குழாய் கிணறு அமைத்து அதற்கு pipe போட்டு கொடுத்து தந்ததற்கு நன்றி தெரிவித்தல்-சார்பு

ஆ.ஒ.தொ.பள்ளி – விவேகானந்தா நகர் பள்ளிக்கு ஆழ்குழாய் கிணறு அமைத்து pipe line செய்து கொடுத்தீர்கள். அதற்கு மிகுந்த நன்றியினை எங்கள் பள்ளியின் சார்பாக தெரிவித்துக் கொள்கிறோம்.

தே.வை [illegible]
[illegible]
ஊ.ஒ.தொ.பள்ளி
விவேகானந்தா நகர்
தம்மிடிப்பூண்டி ஒன்றியம்
திருவள்ளூர் மாவட்டம்

விடுநர்	பெறுநர்
திரு. ந.வெற்றிஅரசு, செயல் அலுவலர், கும்முடிப்பூண்டி பேரூராட்சி, திருவள்ளூர் மாவட்டம்.	மேலாளர், கனிஷ்க் எம்டெல்ஸ், சிப்காட், கும்முடிப்பூண்டி

ந.க.எண். 195 / 2019 / அ1, நாள்.13.09.2019

அய்யா,

பொருள் : மரம் நடுதல் – திருவள்ளூர் மாவட்டம் – கும்முடிப்பூண்டி பேரூராட்சி பகுதிகளில் மாவட்ட ஆட்சி தலைவர் அவர்கள் அறிவுரையின் படி 3000 மரக்கன்றுகள் நட வேண்டியுள்ளதால் தங்கள் நிறுவனம் மூலம் 150 மரக்கன்றுகள் மற்றும் கம்பி வளையங்கள் வழங்க கேட்டல் தொடர்பாக.

திருவள்ளூர் மாவட்டம் கும்முடிப்பூண்டி பேரூராட்சி பகுதிகள் முழுவதும் மாவட்ட ஆட்சி தலைவர் அவர்கள் அறிவுரையின் படி 3000 மரக்கன்றுகள் நட வேண்டியுள்ளதால் தங்கள் நிறுவனம் மூலம் 150 மரக்கன்றுகள் மற்றும் 150 பாதுகாப்பு கம்பி வளையங்கள் வழங்குமாறு மிகவும் பணிவுடன் கேட்டுக்கொள்கிறேன்.

செயல் அலுவலர்,
கும்முடிப்பூண்டி பேரூராட்சி,
திருவள்ளூர் மாவட்டம்.

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT. OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL COMPLEX
PROJECT OFFICE, GUMMIDIPOONDI - 601 201.
Telephone: 044-27922355
Telefax : 044-27922242
Email: pmsipcotgpd@gmail.com
CIN .U74999TN1971SGC005967

No.PO/SIC/GPD/Misc/2019

dt: 02.05.2019

To Kanishk Steel Industries Ltd.,
SIPCOT Industrial Complex,
Gummidipoondi – 601201.

Sub: SIPCOT Industrial Complex, Gummidipoondi – Tree plantation and maintenance – reg.

Ref: Your letter dated: 24.04.2019

****

With reference to the letter cited, you have planted the avenue plants in Block premises to an extent of about 1.50acres and infront of the OSR-8 ...ting main road to an extent of about 1.00acres (200nos.+100nos. = 300nos.), ...n October'2018 and being maintained the same till now.

Hence, it is informed that, you are requested to maintain the trees to the said location further one years.

Kindly acknowledge, the letter receipt of this letter.

Yours faithfully,

PROJECT OFFICER
SIPCOT. GUMMIDIPOONDI

KANISHK STEEL IND LTD

CSR EXPENSES

Ledger Account

1-Apr-2022 to 31-Mar-2023

Date	Particulars	Vch Type	Vch No.	Debit	Credit
13-2-2023	To M GNANARAJ GNANAMMAL EDU RES & CHRT TRUST *BEING THE AMOUNT PAID AS DONATION TO CHENNAI MIDDLE SCHOOL ROYAPETTAH FOR PURCHASES OF SCIENCE LAB. MATERIALS & 44 INCH LCD PROJECTOR & APPROVAL FOR REGISTRATION OF THE ENTITIES FOR UNDERTAKING CSR ACTIVITIES THE REGISTRATION NUMBER IS CSR00020241 -RECEIPT NO 1085/13.02 2023*	Journal	FEBRUARY	30,000.00	
8-3-2023	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 08.3.23 TO LOTUS BLIND WELFARE TRUST OF INDIA PAN NO. AAATL3369D & CSR NO. CSR00021568 -RECEIPT NO 4353/08.03 2023*	BANK PAYMENT	RTGS/MAR23/KK/58	12,000.00	
27-3-2023	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 27.3.23 TO GNARAJ GNANAMMAL EDUCATIONAL & CHARITABLE TRUST CSR00020241 -RECEIPT NO 1087/27.03.2023*	BANK PAYMENT	RTGS/MAR23/KK/277	30,000.00	
30-3-2023	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 30.3.23 T/W CSR ACTIVITIES TP " THE NATIONAL FOUNDATION FOR LIVER RESEARCH" PAN NO. AACTT2749R CSR NO. CSR00032299. REGN MADE ON 20.6.22. RECEIPT NO 528/31.03.2023*	BANK PAYMENT	RTGS/MAR23/KK/344	5,00,000.00	
31-3-2023	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO SABARI CHARITABLE TRUST T/R CSR EXPENSES CSR00025664 -RECEIPT NO 156/31/03/2023*	BANK PAYMENT	RTGS/MAR23/KK/346	2,00,000.00	
	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO KARTIK ART FESTIVAL T/ W CSR EXPENSES. PAN NO. AAATK3060A & CSR NO. CSR00013759 -RECEIPT NO 1063/31 /03/2023*	BANK PAYMENT	RTGS/MAR23/KK/347	1,00,000.00	
	To HDFC BANK- CURRENT A/C (NEW) *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO VIJAY HUMAN SERVICES T/ W CSR EXPENSES PAN NO. AACTV2925M & CSR NO. CSR00006683 - RECEIPT NO 131/ 31.03 2023*	BANK PAYMENT	RTGS/MAR23/KK/351	1,00,000.00	
	Carried Over			9,72,000.00	

continued ...

..SHK STEEL IND LTD

CSR EXPENSES Ledger Account : 1-Apr-2022 to 31-Mar-2023

Date	Particulars	Vch Type	Vch No	Debit	Credit
	Brought Forward			9,72,000.00	
31-3-2023	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON ONLINE BY KK/KG ON 31.3.23 TO SIGHT CARE FOUNDATION T/ W CSR EXPENSES. PAN NO. AAKTS4751Q & CSR NO. CSR00002482*	BANK PAYMENT	RTGS/MAR23/KK/358	50,000.00	
	To **OUTSTANDING C S R EXPENSES** *BEING THE THE PROVISION MADE FOR CSR EXPENSES BALANCE AS ON 31.3.23*	Journal	CSR/PROVISION/1	4,47,000.00	
				14,69,000.00	
	By **Closing Balance**				14,69,000.00
				14,69,000.00	**14,69,000.00**

KANISHK STEEL IND LTD

Old. No.4,New No.7,
Thiru-Vi-Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004.

CSR EXPENSES

Ledger Account

1-Apr-23 to 29-Aug-24

Date	Particulars	Vch Type	Vch No.	Debit	Credit
4-Sep-23	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 04.09.2023 TO " RIVER THE POWER OF WOMEN" CSR NO: CSR00058297 & PAN NO: AACTR7421A. AS PER BY SG MADAM- RECEIPT NO: 038/06 /09/2023*	BANK PAYMENT	RTGS/SEPT23/KK/42	50,000.00	
3-Jan-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 03.01.2024 T/W CSE EXPENSES TO MADRAS SOUTHWEST ROTARYPROJECTS CHARITABLE TRUST. PAN NO: AAATM6347A. CSR REGN NO: CSR00037208- RECEIPT NO: MSRPCT/23 -24/099*	BANK PAYMENT	RTGS/JAN24/KK/25	2,00,000.00	
9-Feb-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 9.2.24 - MADRAS SOUTHWEST ROTARY PROJECTS CHARITABLE TRUST PAN NO. AAATM6347A CSR REGISTRATION: CSR00037208)RECEIPT NO: MSRPCT/23 -24/103*	BANK PAYMENT	RTGS/FEB24/KK/162	5,00,000.00	
19-Feb-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 19.2.24 TO LITTLE DROPS -RECEIPT NO: 1426/19-02-2024- CSR NO: CSR00003749*	BANK PAYMENT	RTGS/FEB24/KK/337	50,000.00	
31-Mar-24	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO KARTIK ART FESTIVAL TRUST FOR RS 50000/--RECEIPT NO: 1176/31-03-24 CSR NO: CSR00013759*	BANK PAYMENT	RTS/MAR24/KK/253- CSR NO	50,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO VIJAY HUMAN SERVICES FOR RS 50000/-- RECEIPT NO: 161/ 31.03.2023- CSR NO: CSR00006683*	BANK PAYMENT	RTS/MAR24/KK/254	50,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200400- CSR NO: CSR00002482*	BANK PAYMENT	RTS/MAR24/KK/255	2,00,400.00	
	To **HDFC BANK- CURRENT A/C (NEW)** *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200500 - CSRNO: CSR00002482*	BANK PAYMENT	RTS/MAR24/KK/256	2,00,500.00	
	Carried Over			13,00,900.00	

continued ...

Date	Particulars	Vch Type	Vch No.	Debit	Credit
	Brought Forward			13,00,900.00	
31-Mar-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200200- CSRNO: CSR00002482*		RTS/MAR24/KK/257	2,00,200.00	
	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200000*		RTS/MAR24/KK/258	2,00,000.00	
	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMOUNT PAID BY RTGS ON 31.3.24 TO CSR EXPENSES FOR 23.-24 TO SIGHT CARE FOUNDATION FOR RS 200900-- CSRNO: CSR00002482*		RTS/MAR24/KK/259	2,00,900.00	
				19,02,000.00	
	By **Closing Balance**				19,02,000.00
				19,02,000.00	**19,02,000.00**
1-Apr-24	To **Opening Balance**			**19,02,000.00**	
3-Jun-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID THRU RTGS ON 03.06.2024 T/W CSR EXPENSES TO LOTUS BLIND WELFARE - RECEIPT NO: 4674/03-06-2024- CSRNO: CSR00021568*		RTGS/JUNE24/KK/07	1,00,000.00	
4-Jun-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 04.05.2024 . T/ W CSR EXPENSES TO TAMILNADU ASSOCIATION OF THE BLIND - RECEIPT NO: 9793 DT.04-06-2024- CSRNO: CSR00038568*		RTGS/JUNE24/KK/35	60,000.00	
30-Jul-24	To **HDFC BANK- CURRENT A/C (NEW)** BANK PAYMENT *BEING THE AMT PAID BY ONLINE RTGS MADE BY KK/KG ON 30.7.24 TO TAMILNADU GASTROENTEROLOGIST TRUST PAN NO: AAATI4210L. CSR NO;CSR00071778 - RECEIPT NO:*		RTGS/30.7.24/CSR EXP/01	5,00,000.00	
				25,62,000.00	
	By **Closing Balance**				25,62,000.00
				25,62,000.00	**25,62,000.00**

SOCIAL AUDIT REPORT
FOR THE FINANCIAL YEAR 2023-2024

For



M/S Kanishk Steel Industries Limited

Gummidipoondi Taluk,

Thiruvallur District.

WasmanPro
Environmental Solutions

Report Prepared By

WASMANPRO ENVIRONMENTAL SOLUTIONS LLP.

No7, F3, Sanjeevi Flats, 4th Main Road,Thillaiganga Nagar, Nanganallur,

Chennai -600061

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1. SOCIAL AUDIT

1.1 Introduction:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu. The facility operates on a leased land area of 3.015 hectares (7.45 acres) and is equipped with a 7 MT/heat induction furnace for producing MS Ingots (Metal Cast into specific sizes and shapes).

Currently, the steel melting plant has a production capacity of 6000 TPA of MS Ingots, with an additional 30240 TPA procured locally. The capacity for manufacturing rolled steel products is 54000 TPA. The consent for manufacturing is valid and was renewed until 2021.

KSIL now proposes to increase its production capacity for intermediate products, specifically MS Ingots and Billets, from 36000 TPA to 83000 TPA. Additionally, the production of re-rolled products will rise from 54000 TPA to 76000 TPA. This expansion plan includes the installation of a new 12 MT/heat furnace and a 15 MT continuous casting machine, in addition to the existing plant facilities. The adaptation of Direct Hot Rolling technology will eliminate the need for a reheating furnace in the current rolling mill. The proposed expansion will take place within the existing industry premises, so no additional land is required.



Figure 1: Social audit Flow Diagram

To secure Environmental Clearance from the State Level Environment Impact Assessment Authority and consent for Establishment from the Tamil Nadu Pollution Control Board (TNPCB), a Social Audit has been conducted by the industry.

1.2 Project Proponent:

KSIL is the flagship company of the Kanishk Group, specializing in the production of constructional and structural steel that adheres to the Bureau of Indian Standards (BIS:1786 and IS:2062), which are equivalent to ASTM, BS, and DIN standards. Established in 1991, KSIL's corporate office is located at No. 4/7, Thiru.Vi.Ka. 3rd Street, Royapettah High Road, Mylapore, Chennai. The company's primary objective is the manufacture of iron and steel products, including TMT bars and MS billets.

Project:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu, covering a land area of 3.015 hectares (7.45 acres). The company has proposed an increase in the manufacturing capacity of its intermediate products, specifically MS Ingots and Billets, from 36,000 TPA to 83,000 TPA. Additionally, the production of re-rolled final products is set to rise from 54,000 TPA to 76,000 TPA. This expansion plan includes the addition of a new furnace with a capacity of 12 MT/heat and a continuous casting machine with a 15 MT capacity, supplementing the existing plant facilities. Furthermore, Direct Hot Rolling technology will be implemented to eliminate the need for a reheating furnace in the current rolling mill. The proposed expansion will take place entirely within the existing industry premises, with no additional land required.

1.3 Nature of the Project:

KSIL engages in secondary steelmaking and rolling processes. The plant is classified under the "Orange – Large" category (2063 – Steel and steel products using various furnaces such as blast furnace, open hearth furnace, induction furnace, arc furnace, submerged arc furnace, basic oxygen furnace, hot rolling reheated furnace) as per the latest notification issued by the Tamil Nadu Pollution Control Board.

Size of the Project:

The total cost for the existing infrastructure and the proposed expansion of the steel melting plant and rolling mill is estimated at Rs. 4 crores.

Location of the Project:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu. The land area encompasses Survey Numbers 275A/2B, 1B of Peddikuppam& 618/(1A, 1A pt, 1A2B pt, 1B2A pt, 1A3 pt), 621A/(1, 2, 3, 4A pt, 4B pt, 4Ba1 pt, 4B2 pt), and 625 part of Old Gummidipoondi Village.

1.4 Process Flow Chart:

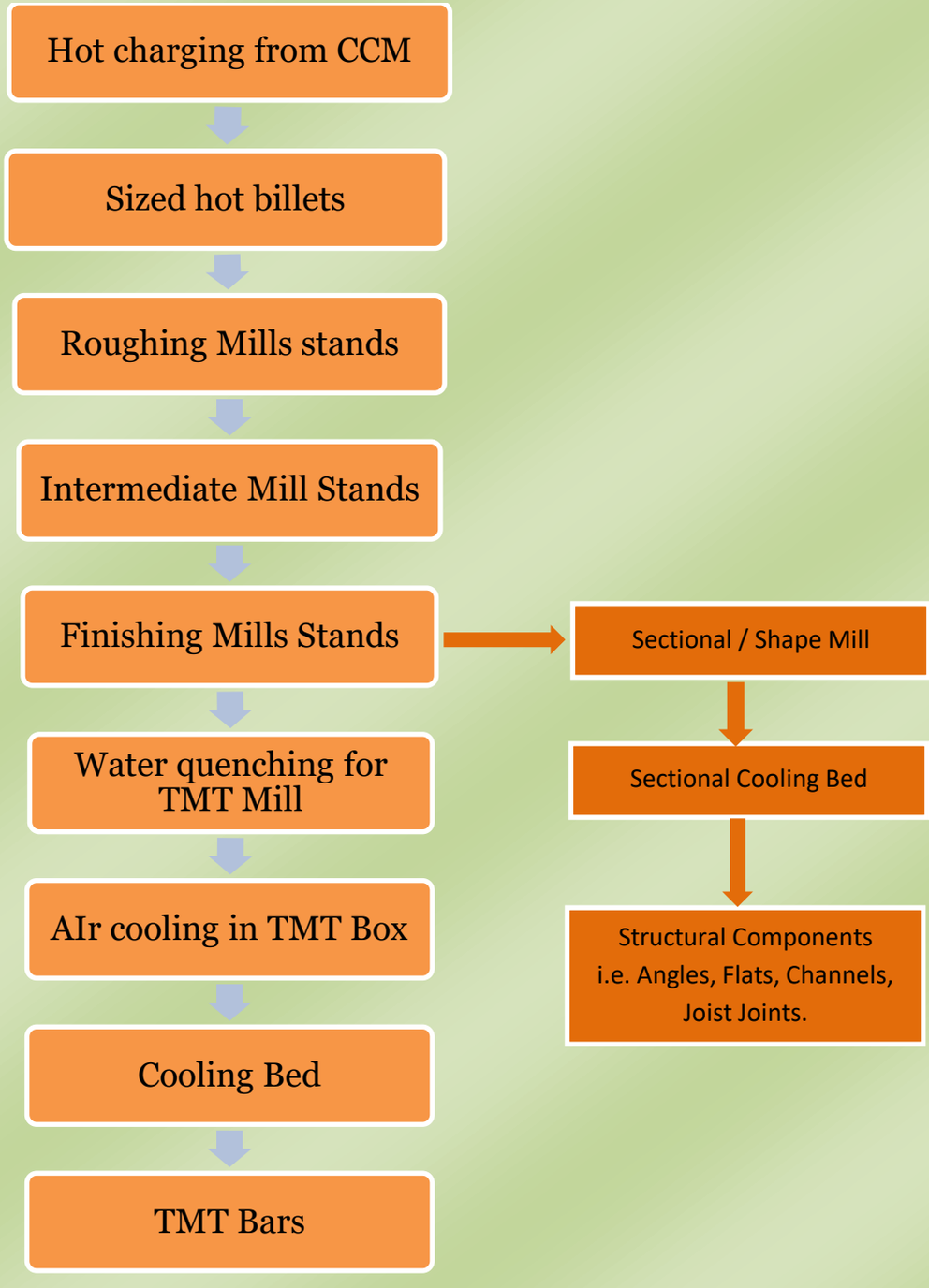


Figure 2: Process Flow Chart

1.5 Social Audit:

A social audit was conducted to identify direct, indirect, cumulative, and induced project-related risks and impacts on physical, biological, socioeconomic, and cultural resources within the project's area of influence. This includes risks and impacts on air and water quality, such as:

(a) Environmental Health;
(b) Natural Resources, Including Land, Water and Ecosystems;
(c) Livelihoods;
(d) Vulnerable Groups;
(e) Gender;
(f) Worker and Community Health and Safety;
(g) Cultural Resources.

On July 22, 2024, Wasmanpro Environmental Solutions LLP, Chennai, was commissioned by Kanishk Steels Industries Limited to conduct a social audit of their plant located in Gummudipoondi, Thiruvallur District. The audit was carried out by a dedicated team from Wasmanpro, including:

Wasmanpro Team and Dr.Dhanalakshmi Arumugam, M.A. (Women Studies), M.Com, MBA, Ph.D.(Consultant - Gender Equality and Social Inclusion Expert)

The social audit adhered to the guidelines outlined in the Code of Practice on Social Audits. An opening meeting to discuss the audit scope and objectives was held on July 23, 2024. An opening meeting was held on 23 July 2024.Mr. Ashok Bohra Director and HOD's of the Departments and senior executives attended the meeting. All the officers were explained about the methodology, objectives and goals of the audit to be conducted and also the audit elements. List of documents to be perused and required for the audit was given to them. An Audit schedule was prepared and circulated to the various Department Heads. Closing meeting was held on 31 July 2024 chaired by Mr. Ashok Bohra and all other HODs. Observations and findings of the auditors were discussed with them.

1.6 Scope of Work:

The assignment primarily involved reviewing the social performance of KSIL's current operations through document analysis and interviews with relevant officials.

- Conducted a site assessment
- Reviewed relevant documentation
- Conducted onsite interviews with key representatives
- Assessed the environmental and social performance of the industry
- Prepared a Social Audit report

Table 1: The scope of work was specifically divided into the following areas:

ENVIRONMENTAL:	SOCIAL:

• Energy Efficiency
• Pollution Prevention
• Soil and Groundwater Impact
  o STP
  o Cooling Tower
	• Man power Management
	• Working hour, wage and benefits like ESI, Holidays
	• Health and Safety
	• Emergency Preparedness and Response
	• Non-discrimination & Equal Opportunity
	• Anti-harassment & Abuse
	• Workplace Conduct
	• Promotion and Career Development
	• Child Labour and Forced Labour
	• Inclusive Work Environment
	• Accountability for continuous improvement
	• Retrenchment
	• Grievance Mechanism
	• Information Disclosure
	• Corporate Social Responsibility

1.7 Environmental:

1. **Energy Efficiency:**

KSIL has implemented initiatives to improve energy efficiency and reduce greenhouse gas (GHG) emissions, including the adoption of state-of-the-art clean technologies, improving raw material quality, enhancing fuel efficiency, and creating carbon sinks. Some of the Best Available Technologies (BAT) adopted by KSIL for these purposes include:

- Secondary Fume Extraction System in the Steel Melting Shop
- Hot charging of continuously cast products at higher temperatures directly to Rolling Mills
- Direct Rolling Process, eliminating the need for reheating furnaces
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high-capacity electric motors

These technologies and equipment have been installed within the industry premises to enhance energy savings.

2. **Pollution Prevention:**

Kanishk Steel Industries Limited, Gummidipoondi, requested a survey for pollution prevention from the Tamil Nadu Pollution Control Board.

As recommended, the Deputy Chief Scientific Officer from the District Environment Laboratory in Ambattur conducted the following surveys:

a. Ambient Air Quality (AAQ) Survey
b. Stack Monitoring Survey
c. Ambient/Source Noise Level Survey

These surveys were conducted on 26.06.2024, and the Analysis Report was submitted on 02.07.2024. The analysis is valid until March 31, 2033. The results of the analysis are as follows:

Table 2: Ambient Air Quality Survey:

Sl. No.	Location	Direction	Distance (m)	Height from GL (m)	Pollutants Concentrations			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1.	On Top of Scaffolding Near Admin Building	NE	60	2.0	68.1	-	13.5	15.6
2.	On Top of Scaffolding Near labour quarters	E	50	2.0	89.1	38.4	16.6	19.1
3.	On Top of Scaffolding Near storage yard	SE	60	2.0	72.1	-	16.2	18.8
4.	On Top of Scaffolding Near stores	SW	70	2.0	85.6	-	17.1	19.7
5.	On Top of Scaffolding Near Laboratory NW	NW	80	2.0	70	40.1	18.3	21.2

Table 3: Stack Monitoring Survey Results:

Sl. No.	Stack attached to	Stack Temp in K	Velocity in (M/Sec)	Discharge Rate in (Nm3/hr)	Pollutants (mg/NM3)		
					$PM_{2.5}$	SO_2	NO_2
1.	Induction furnace – 7 Ton Fuel – EB APC Measure – Bag Filters	416	11.8	34399	50.1	101.3	130.9
2.	Induction Furnace – 12 Ton Fuel : - EB APC Measure – Bag Filters	403	11.1	33401	48.5	106.6	134.5

Table 4: Ambient/Source Noise Level Survey Results:

Sl. No.	Location	Duration (min)	Distance (m)	Directions	Sound Level – dB(A)		
					Leq	LMin	LMax
1.	Near Admin Building	30	60	NE	70.5	66.2	85.2
2.	Near Labour quarters	30	50	E	74.0	70.6	88.6
3.	Near storage yard	30	60	SE	69.4	65.3	82.6
4.	Near stores	30	70	SW	72.6	69.4	87.3
5.	Near laboratory	30	80	NW	65.1	61.3	78.2

So, there is no air and noise pollution in the industrial premises.

3. Soil and Groundwater Impact

KSIL is receiving water from SIPCOT Water Supply. Water Requirement for the KSIL:

Sl. No.	Category	Requirement (KLD)	
		Existing	After Expansion
1.	Domestic Purposes	6.8	8.75
2.	Machinery Cooling	21.0	33
3.	Scrubber Make – up	2.0	3.5
	Total Requirement	29.8	45.25

a. Sewage Treatment Plant:

The sewerage generation will be 7.9 KLD and it will be treated in the existing sewage treatment plant of capacity 10 KLD. The details of STP components are:

Table 5: STP Components

Sl. No.	Components	Dimension (in meters)
1.	Sewage transfer pump	1 HP
2.	Air Blower in C.I.	Twin lope – 2 Nos. 25 m3/hr
3.	Disc diffuser – PP with EPDM	2 Nos.
4.	Aeration Tank in MS	1.5 m x 1.5 m x 3.0 m TD
5.	Setting Tank in MS	1.5 m x 1.5 m x 2.5 m (HOS)
6.	Filter Feed Pump	1 HP
7.	Sludge drying beds – BW	1.0 m x 1.0 m x 1.0 m TD-3 Nos.
8.	Pressure sand filter – in MS	0.3 m x 1.1 m HOS
9.	Activated carbon filter – in MS	0.25 m x 0.9 m HOS
10.	UV system	2000 LPH
11.	Treated water tank	1000 L

From the sewage holding tank, sewage will be pumped through a pump, which may be placed either inside or outside the tank, to the aeration tank. Before reaching the aeration tank, the sewage passes through a bar screen to remove coarse floating particles. Blower air agitation is provided to ensure proper equalization and to prevent septic conditions and foul odors. The sewage is biologically oxidized using a twin-lobe air blower. The aerated wastewater is then allowed to settle in a settling tank, where suspended biological floc is removed by gravity.

The treated water from the settling tank is transferred to a separate tank and then pumped to the Pressure Sand Filter (PSF) and Activated Carbon Filter (ACF) to remove any remaining colloidal particles, BOD, and COD. The treated water from the outlet of the Activated Carbon Filter is then sterilized in a UV sterilizer and collected for use in gardening and flushing.





Figure 3: STP PLANT COMPONENTS



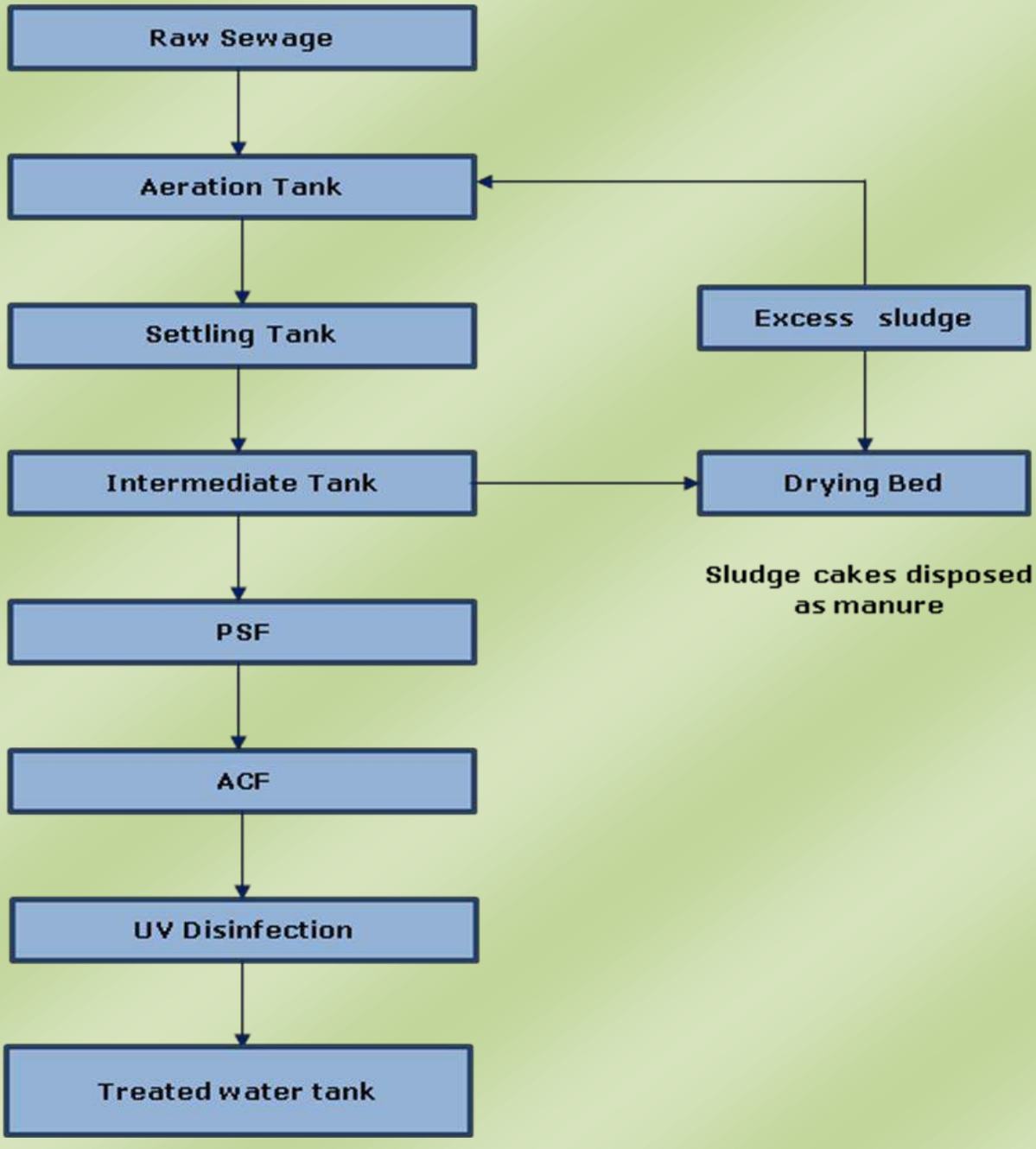


Figure 4: Sewage Treatment Plant Diagram



Aeration Tank

Drying Bed





Treated Water Tank

Cooling Tower:

Water cooling towers are used to cool water circulating in the system, which helps maintain ideal process temperatures.Hot water from the production equipment or condenser is pumped into the tower's basin.Nozzles spray the water into small droplets across a fill media inside the tower. This increases the water's surface area, which allows for more heat loss through evaporation. Fans at the top of the tower pull in air from the bottom and move it up and out in the opposite direction of the water. The air mixes with the water, carrying heat away through evaporation into the atmosphere. The cooled water collects in a basin below the fill media. The cooled water is then pumped back into the system to be used again.The process is enclosed herewith. Thus, KSIL is ensuring zero waste water and also ensure soil protection.

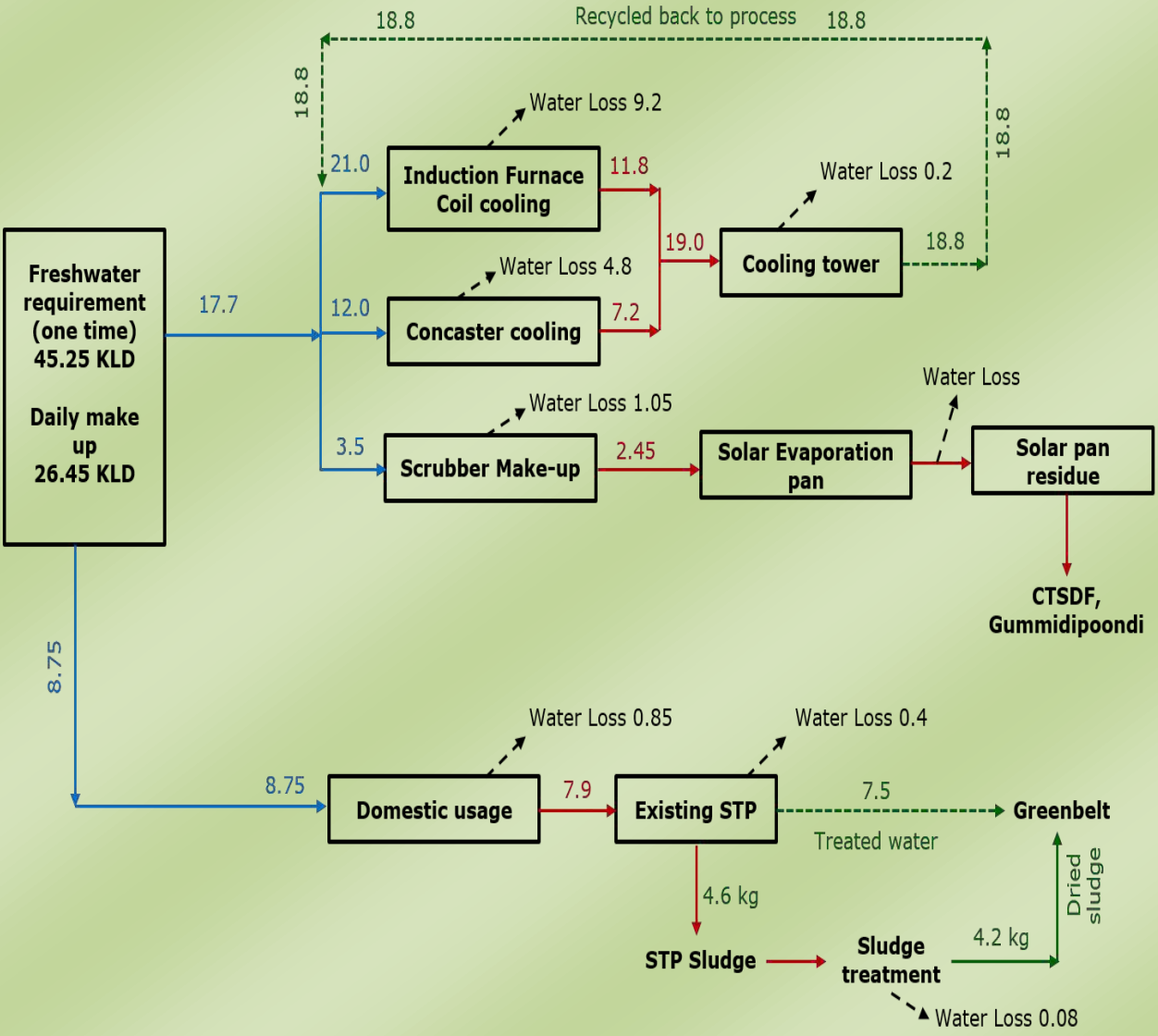




Figure 5: COOLING TOWER COMPONENTS





1.8 Social Audit:

1.8.1 Man Power Management:

KSIL has entered into a 12-month contract with M/s. Asha Ram, located at Ward No. 9, Meetha Manjra, Nagaur, Rajasthan – 3412022, for job work involving the handling of M.S. Sections and Flats from the cooling bed to the stockyard at the production site. According to the contract, the contractor is responsible for providing all necessary tools, safety equipment, and proper attire for the workers. The contractor will also supply the required number of skilled workers as needed by the factory to ensure the smooth and timely delivery of materials.

KSIL will pay the ESI/PF contributions for the workers, with the corresponding amount being deducted from the contractor's monthly payment as per regulations. Additionally, the contractor is required to obtain a contractor's license from the Director of Industrial Safety and Health Department in Chennai. This contract may be renewed for an additional period based on mutual agreement.

Similarly, KSIL has also entered into a contract with M/s. Premaram& Sons, located at No. 9-1-34/30/22, 23 Bapu Nagar, Langer House, St. Anthony's High School, Hyderabad, Andhra Pradesh – 500 008, for job work involving the cutting and shifting of M.S. Sections and Flats from the cooling bed to the stockyard at the production site.

The terms of this contract mirror those of the agreement with M/s. Remaram, the contractor is responsible for providing necessary tools, safety equipment, and appropriate attire for the workers, as well as ensuring the availability of skilled workers as needed. ESI/PF contributions for the workers will be paid by KSIL, with deductions made from the monthly payment. The contractor must also obtain a contractor's license from the Director of Industrial Safety and Health Department in Chennai. This contract may also be renewed based on mutual consent.

1.8.2 Human Resources Policies and Procedures

For production activities, KSIL places significant emphasis on the recruitment process to ensure that only qualified and reliable staff and workers are employed. After receiving a candidate's resume, which must be accompanied by their Aadhaar card and passport-size photos, a thorough preliminary investigation is conducted. This investigation examines the candidate's past working history, focusing on their previous employment, skills, and any concerns that may have arisen in their previous roles.

The aim is to assess the candidate's suitability for the role, ensuring they align with the company's standards and values. The experience certificates of the candidates are meticulously maintained in company files, serving as a record and reference for future evaluations. Thus, KSIL underscores the company's commitment to maintaining a skilled and trustworthy workforce, minimizing the risk of hiring unqualified or unsuitable personnel.

KSIL is committed to maintaining a comprehensive set of policies that ensure fairness and transparency in employee management. They adhere to a strict salary payment schedule, ensuring that all employees receive their salaries before the 7th of every month, which helps in maintaining financial stability for the workforce. In addition to regular salaries, it recognize the efforts and contributions of the employees by providing a bonus equivalent to one month's salary each year, fostering motivation and loyalty.

Understanding the importance of well-being and education, the company extends its support by covering medical and education fees for employees, tailored to their family circumstances and experience levels. This policy underscores their commitment to the holistic well-being of the employees and their families.

1.8.3 Working hour, wage and benefits

KSIL has established a clear policy regarding working hours to protect its employees from overwork and ensure a balanced work-life dynamic. No worker or staff member is allowed to work more than 12 hours a day, including a maximum of 4 hours of overtime when absolutely necessary. This policy is designed to prevent fatigue and burnout, which can lead to decreased productivity and increased risk of accidents.

The company monitors adherence to this policy closely, ensuring that all overtime work is properly recorded and compensated in accordance with labor laws. This regulation reflects the company's commitment to safeguarding the health and well-being of its workforce, recognizing that a rested employee is a more efficient and effective one.

KSIL maintain a minimum salary benchmark of Rs. 16,500 per month, ensuring that all employees are compensated fairly for their work, in alignment with industry standards. Furthermore, the employment contracts include a one-month notice period, which is required for both resignation and termination, allowing adequate time for transition and minimizing disruptions.

In unfortunate circumstances such as the death of an employee, KSIL ensure that the designated family member receives the gratuity payment as a form of financial support. For example, after the passing of Mr. B Ramu, who dedicated 13 years of service to the company until April 2023, a gratuity amount of Rs. 1,46,094 was settled in full to his wife, Mrs. R. Vidya. This policy reflects their commitment to supporting the families of our employees during difficult times.

These policies are designed to create a supportive, fair, and transparent work environment where employees are valued and cared for, both in their professional and personal lives.

1.8.4 Employee State Insurance (ESI):

The Employee State Insurance (ESI) policy is part of the company's commitment to providing social security and health insurance benefits to its employees, particularly those in lower-income brackets. The ESI scheme is a self-financing social security and health insurance scheme for Indian workers, providing medical care and financial assistance in case of sickness, maternity, disability, and death due to employment injury.

It outlines that both the employer and the employee contribute to the ESI fund. Typically, a certain percentage of the employee's wages is deducted as their contribution, while the employer also makes a contribution. The company ensures that these contributions are made regularly and are in accordance with the statutory requirements.

It also provides detailed information on the benefits available to employees under the ESI scheme. These benefits include medical care for the insured employee and their dependents, cash benefits during periods of sickness, maternity leave, disability, and in the unfortunate event of death due to an employment-related injury, financial compensation is provided to the family of the deceased.

As part of the ESI policy, the company arranges regular medical check-ups every fortnight, ensuring the health and well-being of its employees. KSIL also provides access to a treatment room with essential facilities such as beds and oxygen on the factory premises. This aligns with the ESI scheme's objective to provide comprehensive healthcare to employees. KSIL is responsible for the accurate and timely filing of ESI returns every month. This ensures that the records of contributions and benefits are kept up to date and that employees can access their entitled benefits without delay. Proper documentation and record-keeping are emphasized to avoid any discrepancies or legal issues.

Further, KSIL ensures that employees are fully informed about their rights and benefits under the ESI scheme. By adhering to these, KSIL ensures that it meets its legal obligations while also providing essential support and protection to its employees, contributing to a secure and healthy work environment.

1.8.5 Holidays:

KSIL's policy on holidays is meticulously planned and communicated to all employees. Government-declared holidays are observed and respected, providing employees with the necessary breaks throughout the year. To facilitate proper planning, the company declares all holidays for the upcoming year by October 31st of the previous year. This information is prominently displayed on the notice board, ensuring that all staff and workers are informed well in advance. This approach not only aligns with statutory requirements but also demonstrates the company's respect for its employees' time, allowing them to plan personal commitments and rest periods effectively.

1.8.6 Health and Safety:

Health:

The company is dedicated to ensuring the safety and well-being of all its employees, both technical and non-technical. To this end, safety equipment including helmets, safety shoes, hand gloves, goggles, and face masks are provided regularly. It ensures that all workers entering the work area are properly equipped to handle the tasks at hand, reducing the risk of injury or accidents. The company takes this responsibility seriously, regularly inspecting and updating safety gear to comply with industry standards. By providing these essential protective items, the company not only complies with occupational safety regulations but also fosters a culture of safety and awareness among its employees.

Agreement with M/s. HNX Healthcare Private Limited:

KSIL places a high priority on the health and safety of its employees by partnering with nearby medical facilities, specifically M/s. HNX Healthcare Private Limited, to provide operation and maintenance of health checkups and OPD/IP services for both current and retired employees and their dependents at ALPHA Hospital, located at 3402 A, Raju Complex, Pappankuppam Village, Opp. MITSUBA, Gummidipoondi, which operates as a 24-hour facility.

This partnership ensures that employees have immediate access to professional medical care in case of health emergencies. Regular medical check-ups are conducted every fortnight for all laborers and staff, facilitating the early detection and treatment of any health issues. Additionally, the factory premises are equipped with a treatment room that includes beds and oxygen facilities to address immediate medical needs.

Benefits:

- In-Patient Services: A 10% discount is offered, excluding medicines, implants, and consumables. However, this discount is not applicable if the patient's treatment expenses are covered by health insurance.
- Out-Patient Services: A 10% discount is provided on investigations and consultations.
- Health Camps and Awareness: Half-yearly health check-up camps and quarterly health awareness talks on topics such as personal hygiene, HIV/AIDS, and COVID-19 are provided free of charge.

- Ambulance Services: Free ambulance services are available for in-patient admissions within Chennai limits.
- Home Care Services: Home care services, including a doctor and nurse along with necessary medicines, will be provided based on emergency needs. Special consideration is given when KSIL issues a confirmation letter for the employee or retired person requiring care.
- Health Checkup Packages: Health checkup packages are priced at Rs. 3999 for male employees and Rs. 4499 for female employees, as agreed with HNX Healthcare.
- Documentation: Employees must present an authority letter and employee ID card to avail of the benefits.
- Payment:All payments are made by Kanishk Steel.

Furthermore, Alpha Hospital has provided training in Basic Life Support (BLS). Senior officials of KSIL participated in First Aid Training – Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference.







KSIL has also arranged for a Medical Officer to provide periodic health services. The Medical Officer visits the industry fortnightly, offering healthcare services to the employees.





In addition to the above arrangements, KSIL is committed to ensuring the health and safety of its employees by establishing a treatment center within the industry premises. The center is equipped with an emergency medical kit, first aid supplies, medicines, and a resting bed, all as recommended by the Medical Officer.



Figure 6: Treatment Center at KSIL

The management has implemented a system for health monitoring by providing a Master Medical Health Check-up every six months in collaboration with Alpha Hospital, Gummidippondi.

Nutritious Meals Provision:



The company provides a canteen facility to ensure that all staff and workers have access to nutritious meals. Additionally, provisions are made for tea expenses, particularly for night duty staff, who receive extra tea to accommodate the demands of their work shifts. This comprehensive approach to health and safety highlights the company's commitment to fostering a supportive and healthy work environment.In summary, KSIL has established a work environment and conditions that adhere to national occupational health standards and requirements.

Figure 7: Nutrition Meals to Workers

Safety:

KSIL is ensuring the wearing of appropriate personal protective equipment in all operations where there is an exposure to hazardous conditions or where this part indicates the need for using such equipment to reduce the hazards to the employees. KSIL is providing personal protective equipment (PPE) to all the employees who are all working in the factory. It includes Shoes, Gloves, Industrial Helmet, Goggles, Apron, etc.





Figure 8: Employees with Personal Protective Equipment (PPE)

1.8.7 Emergency Preparedness and Response

KSIL is having fire protection system to be followed throughout all phases of the manufacturing process.KSIL is also organized a Fire Mock Drill with the support of the Fire Officer of Fire and Rescue Station, Gummidipoondi – SIPCOT on April 03, 2023. Staff, Industry workers, Security staff, Housekeeping workers are all attended the programme. This was also certified by the Fire Officer.

This Mock drill includes DG Pump, main pump and jockey pump operating system in pump room panel board and training given to operate all the hydrant point and monitor system with firefighting during summer seasons to all the staff and operate the hydrant system first aid firefighting portable extinguisher in the factory premises at the time of emergency. Evacuation Drill Exercise also trains for Disaster Control Management Plan to all staff by factory norms.



Figure 9: Mock Drill Conducted at KSIL





KSIL is having sufficient automated machines for raw material handling and finished products handling. So, there is no hazardous material handling by the workers.

Thus, KSIL comply with laws concerning occupational safety, strengthen safety management and establish a sound work safety system.



Figure 10: Fire Extinguishers provided at KSIL

1.8.8 Non-Discrimination and Equal Opportunity:

The Non-Discrimination and Equal Opportunity serves as a cornerstone for creating an inclusive, respectful, and fair workplace where all employees have the opportunity to succeed, regardless of their background or personal characteristics. KSIL ensures that every individual is treated equally in all aspects of employment, including recruitment, hiring, promotion, compensation, benefits, training, and termination.It is impossible for women to

engage in labor in factories. Equal opportunity and prejudice won't occur as a result. Additionally, KSIL employs women for support and administrative roles.

1.8.9 Anti-Harassment & Abuse :

It is designed to ensure that all employees are treated with dignity and respect, fostering a workplace environment that is free from harassment, abuse, and any form of inappropriate behavior. This is crucial in maintaining a positive and safe work environment where all employees can perform their duties without fear of discrimination, intimidation, or retaliation.

KSIL enforces a strict zero-tolerance policy towards any form of harassment or abuse, whether verbal, physical, sexual, or psychological. Harassment includes any unwanted or unwelcome conduct that violates an individual's dignity or creates an intimidating, hostile, or offensive environment. This includes but is not limited to inappropriate jokes, unwelcome comments, threats, physical assault, or any behavior that can be construed as harassment.

It also provides clear guidelines on how employees can report incidents of harassment or abuse. Employees are encouraged to report such incidents immediately to their supervisors, HR department, or through designated channels such as a confidential hotline. The company commits to investigating all complaints thoroughly and promptly, ensuring that the rights of both the complainant and the accused are respected during the investigation process.

To protect victims of harassment and abuse, it includes provisions for immediate support, including counseling services, if necessary. The company guarantees that no employee will face retaliation for reporting harassment or abuse in good faith. Any attempt to retaliate against a complainant or witness is treated as a serious violation of company policy and is subject to disciplinary action.

It outlines the disciplinary actions that may be taken against those found guilty of harassment or abuse, ranging from warnings and mandatory training to suspension or termination of employment. KSIL emphasizes its commitment to creating a safe and respectful workplace and will take all necessary steps to enforce this policy effectively.

1.8.10 Workplace Conduct:

It sets clear expectations for employee behavior, emphasizing that discrimination, harassment, and bullying will not be tolerated under any circumstances. It outlines the procedures for reporting incidents of discrimination and ensures that complaints are addressed promptly and thoroughly. KSIL company commits to protecting individuals who report discrimination from retaliation, ensuring a safe and supportive environment for all employees.

1.8.11 Promotion and Career Development:

It guarantees that all employees have equal access to promotion opportunities and professional development resources. Decisions regarding promotions, training, and career advancement are made based on performance, skills, and potential, without regard to any protected characteristic. The organization provides mentoring and support programs to help all employees reach their full potential.

1.8.12 Child Labor, Forced Labor

In alignment with ethical labor practices and the law, the company strictly prohibits the employment of child labor on its campus. This policy is non-negotiable and is enforced rigorously to ensure compliance with national and international labor standards. Additionally, the company enforces a zero-tolerance policy towards the use of liquor and tobacco within its premises. This prohibition is intended to promote a safe, healthy, and productive work environment, free from the distractions and dangers associated with substance abuse. Employees are expected to adhere to this policy strictly, and any violations are dealt with severely, reinforcing the company's commitment to a responsible and respectful workplace culture.

1.8.13 Inclusive Work Environment:

It extends beyond legal compliance, aiming to cultivate a workplace culture that values and celebrates diversity. The company organizes regular training sessions on diversity, equity, and inclusion, helping employees understand the importance of these principles in fostering collaboration and innovation. KSIL also encourages the formation of employee resource groups, where individuals can connect, share experiences, and support one another.

1.8.14 Accountability and Continuous Improvement:

To ensure the effectiveness of the Non-Discrimination and Equal Opportunity Policy, KSIL regularly reviews and updates its practices and policies. Feedback from employees is encouraged, and the organization monitors its progress in achieving diversity and inclusion goals. The company also holds managers and leaders accountable for upholding these standards, recognizing that their commitment is vital to creating a truly inclusive workplace.

By implementing and adhering to this policy, KSIL demonstrates its dedication to creating a work environment where everyone has the opportunity to succeed, free from discrimination and bias. This not only aligns with legal requirements but also reflects the company's values of respect, fairness, and equality for all.

1.8.15 Retrenchment:

It provides a framework for managing workforce reductions in a manner that is fair, transparent, and compliant with legal requirements. Retrenchment, which involves the reduction of staff due to economic reasons, restructuring, or other business needs, is treated with sensitivity and responsibility to minimize the impact on affected employees.

It clearly outlines the criteria used to determine which employees may be retrenched. These criteria are based on factors such as seniority, performance, skills, and the business's operational needs. It ensures that the process is conducted fairly, without discrimination or bias, and in compliance with labor laws and regulations.

Employees who are selected for retrenchment are given adequate notice, as stipulated by law, and are provided with all necessary information regarding their entitlements. KSIL ensures that retrenched employees receive fair compensation, including severance pay, any outstanding wages, and other benefits to which they are legally entitled. This compensation is intended to support employees during their transition period.

KSIL also ensures that retrenched employees are treated with respect and dignity throughout the process, recognizing the emotional and financial impact of retrenchment. KSIL strictly adheres the retrenchment process is transparent and justified.

1.8.16 Grievance Mechanism:

It is an essential part of KSIL's commitment to resolving employee concerns and maintaining a harmonious workplace. This policy provides a structured and transparent process for employees to raise grievances related to their employment, working conditions, or treatment at work.

It ensures that all employees have access to a fair and straightforward process for lodging grievances. Employees are encouraged to report any concerns or dissatisfaction to their immediate supervisors without fear of retribution. KSIL provides multiple channels for submitting grievances, including written forms, direct communicationor through an anonymous complaint system.

Once a grievance is submitted, it mandates that it be addressed promptly and impartially. KSIL commits to investigating the grievance thoroughly, ensuring that all parties involved have the opportunity to present their side of the issue. The goal is to resolve the grievance as quickly as possible, minimizing disruption to the workplace and maintaining employee morale.

It guarantees confidentiality throughout the grievance process, protecting the privacy of the individuals involved. Employees are assured that their grievances will be handled with discretion and that they will not be subject to any form of retaliation or adverse treatment as a result of raising a concern.

After a grievance is resolved, KSIL ensures that the outcome is communicated to the employee who raised the issue, along with any actions taken or changes implemented as a result of the grievance. It also includes a follow-up process to ensure that the resolution is effective and that the issue does not recur. Feedback from employees on the grievance process is encouraged, helping the company improve its procedures and address any systemic issues.

1.8.17 Information Disclosure

The Information Disclosure Policy outlines the guidelines and protocols for handling and sharing sensitive information within and outside the organization. This policy is crucial in

maintaining the confidentiality, integrity, and security of company data and personal information of employees, clients, and business partners.

It specifies that all employees are obligated to protect confidential information. This includes proprietary business information, employee records, client data, and any other sensitive material that could impact the company's operations or reputation if disclosed improperly. Employees are expected to handle such information with the utmost care and are only permitted to share it with authorized personnel or external parties who have a legitimate need to know.

Access to confidential information is restricted to those who require it to perform their job duties. The policy requires that all employees who are granted access to sensitive data undergo training on how to handle and protect it. Information disclosure to external parties must be approved by higher management and should be covered by non-disclosure agreements (NDAs) to prevent unauthorized use or distribution of the information.

It also ensures that KSIL complies with all applicable laws and regulations regarding information disclosure, such as data protection laws. This includes obligations to disclose certain information to government authorities or during legal proceedings, but even in these cases, the disclosure must be managed carefully to protect the company's interests.Any unauthorized disclosure of information is treated as a serious violation of KSIL's policy.

Employees are encouraged to report any incidents of accidental or deliberate data breaches. The policy outlines the consequences of failing to adhere to these guidelines, which may include disciplinary actions, up to and including termination of employment, and legal action if necessary.

To further support employee well-being, KSIL implements mandatory awareness programs covering factory procedures, ethics, medical facilities, food facilities, ESI, personal hygiene, HIV/AIDS, COVID-19, and other important topics. These programs are designed to ensure that employees are well-informed about safety protocols, health practices, and available resources, thereby enhancing the overall approach to workplace health and safety.

1.8.18 Corporate Social Responsibility:

M/S. Kanishk Steel Industries Ltd. has demonstrated a profound commitment to social responsibility through its various CSR initiatives, focusing on environmental sustainability, community well-being, and educational support. The company's efforts are centered in the Gummidipoondi Panchayat and surrounding regions, where they have undertaken a series of projects to address critical issues such as water scarcity, education, and sanitation. Below is a comprehensive report detailing these initiatives:

1.8.19 Addressing Water Scarcity:

Water scarcity is a significant challenge in many rural areas, and M/S. Kanishk Steel Industries Ltd. has made notable efforts to provide sustainable solutions to this pressing issue.

a. **Drinking Water Infrastructure in Gummidipoondi Panchayat by installation of a Borewell and Water Tank:**

   KSIL recognized the dire need for clean drinking water in the Gummidipoondi Panchayat and responded by installing a drinking water borewell. Complementing this, a large water tank was also constructed, ensuring a reliable and continuous supply of drinking water to the local community. This initiative provides both an immediate relief and a long-term solution to the water scarcity problem, significantly improving the quality of life for the residents.

b. **Expansion of Water Supply to Neighboring Villages by constructing of a Drinking Water Pipeline in Ganganthotti Village:**

   Extending their efforts beyond the immediate vicinity, M/S. Kanishk Steel Industries Ltd. constructed a drinking water pipeline in Ganganthotti village. This initiative ensures that the residents of this village have access to safe and clean drinking water, which is essential for their health and well-being. The pipeline is a crucial infrastructure development that addresses the water needs of the entire community, thus enhancing the overall living conditions.

c. Additional Water Resources in Ganganthotty Village by installating Heavy-Duty Hand Pumps:

Further addressing the water scarcity issue, the company has planned the installation of two heavy-duty hand pumps in Ganganthotty Village. These pumps, which will be accompanied by bore drilling and the construction of a platform, are intended to provide an additional and easily accessible source of clean drinking water for the villagers. This initiative is expected to have a significant positive impact on the health and well-being of the local population by ensuring consistent access to essential water resources.

1.8.20 Supporting Education and Educational Infrastructure:

M/S. Kanishk Steel Industries Ltd. recognizes the critical role that education plays in community development and has undertaken several initiatives to support and enhance educational opportunities in the region.

a. Donation of School Bag Kits in Vivekananda Nagar:

Understanding the importance of equipping students with the necessary tools for learning, the company has donated school bag kits to the primary school in Vivekananda Nagar. These kits, which include essential educational materials, are intended to support the students in their studies and contribute to their academic success. By providing these resources, KSIL is investing in the future of the community, ensuring that the younger generation has the tools they need to thrive.

b. Investment in School Infrastructure by constructing of Retaining Walls at Government Elementary School, Ma Po Si Nagar:

As part of its commitment to improving educational infrastructure, M/S. Kanishk Steel Industries Ltd. has proposed the construction of retaining walls at the Government Elementary School in Ma Po Si Nagar, Gummidipoondi. This project is crucial for protecting the school premises from environmental degradation, such as erosion, and ensuring a safer and more secure environment for the students. The retaining walls will not only preserve the school grounds but also contribute to the overall safety and stability of the educational environment.

1.8.21 Improving Sanitation Facilities:

Sanitation is a fundamental aspect of public health, and M/S. Kanishk Steel Industries Ltd. has made significant strides in improving sanitation facilities in the region, particularly in schools and public areas.

Sanitation Facilities at Ma Po Si Nagar and Ganganthotty Village:

Recognizing the critical importance of proper sanitation in maintaining public health, KSIL has planned the construction of toilets at the Government Elementary School in Ma Po Si Nagar and in Ganganthotty Village. These sanitation facilities will address the hygiene needs of the students and the broader community, promoting better health practices and reducing the risk of disease. This initiative is expected to have a lasting impact on the well-being of the local population, particularly in terms of improving hygiene and sanitation standards in the area.

1.8.22 Environmental Sustainability Initiatives:

Beyond addressing immediate community needs, M/S. Kanishk Steel Industries Ltd. has also undertaken several initiatives aimed at promoting environmental sustainability and enhancing the green cover in the region.

a. Large-Scale Afforestation Projects:

One of the most significant environmental initiatives undertaken by the company is the plantation of 3,000 trees in the Thiruvallur district, particularly in the Gummidipoondi region. This large-scale afforestation project was carried out in collaboration with local communities and government authorities, highlighting the company's commitment to environmental sustainability. The project not only contributes to increasing the green cover in the region but also plays a vital role in restoring ecological balance and enhancing the local environment.

b. Focused Plantation Efforts:

In addition to large-scale afforestation projects, M/S. Kanishk Steel Industries Ltd. also undertook specific plantation efforts, such as the planting of 150 trees in targeted areas. These efforts are equally important, as they contribute to the overall green initiatives in the region and help to create a healthier environment. The company's approach includes not only planting trees but also ensuring their survival and growth through proper care and maintenance.

c. Environmental Restoration of Thamarai Lake:

M/S. Kanishk Steel Industries Ltd. also participated in the environmental restoration of Thamarai Lake in Gummidipoondi by planting trees around the lake area. This initiative contributes to the ecological balance of the lake and provides a greener environment for the surrounding community. The restoration of the lake is a significant step towards preserving local water bodies and enhancing the natural beauty of the area.

d. Plantation of Trees in Factory Area:

Within their industrial premises in Gummidipoondi, M/S. Kanishk Steel Industries Ltd. has taken steps to improve the local environment by planting trees in the factory area. This greening effort not only enhances the aesthetics of the industrial space but also contributes to the overall environmental health of the region.

e. Weld Mesh for Tree Protection:

To ensure the protection and survival of the planted trees, the company procured essential protective materials such as weld mesh. An order for 13 rolls of weld mesh from Nitin Wires and Meshes Pvt. Ltd. was placed to safeguard the young trees from external threats, such as animals or human activities. This comprehensive approach to afforestation demonstrates the company's commitment to environmental sustainability by not only planting trees but also ensuring their long-term growth and protection.

f. Tree Donation to Gummidipoondi Town Panchayat:

As part of their broader commitment to environmental sustainability, M/S. Kanishk Steel Industries Ltd. donated trees to the Gummidipoondi Town Panchayat. This contribution supports the greening of public spaces and aligns with the company’s goal of enhancing the local environment and supporting community-led green initiatives.

M/S. Kanishk Steel Industries Ltd.'s CSR initiatives are a testament to the company's commitment to social responsibility and environmental stewardship. By addressing critical issues such as water scarcity, education, sanitation, and environmental sustainability, the company has made a significant impact on the lives of the residents in the Gummidipoondi Panchayat and surrounding areas. These initiatives reflect a holistic approach to community development, combining immediate relief with long-term

solutions that ensure the well-being of the community and the preservation of the environment. Through their dedicated efforts, M/S. Kanishk Steel Industries Ltd. has established itself as a responsible corporate citizen, deeply invested in the welfare of the communities it serves.



Figure 11: Rain Water Harvest Pit & Green Belt Development



Figure 12: Green Belt Development In & Around Industry

1.8.23 RECOMMENDATIONS:

At Kanishk Steel Industries Ltd., the establishment of comprehensive HR policies supported by robust SOS (Standard Operating Procedure) guidelines is crucial for creating a fair, transparent, and resilient work environment. HR policies serve as the foundation for managing employee relations, ensuring legal compliance, and fostering a positive workplace culture. By formalizing practices such as timely salary disbursement before the 7th of each month, providing annual bonuses, and offering medical and educational support, the company demonstrates its commitment to employee welfare and satisfaction. Additionally, implementing clear policies for workplace safety, employment and termination, training and development, and diversity and inclusion ensures that employees are treated fairly and consistently, which reduces conflicts and protects the company from legal challenges.

The importance of having well-defined SOS guidelines in place cannot be overstated, as they are essential for safeguarding employee well-being and maintaining business continuity in emergencies. These guidelines should include provisions for emergency response, such as safety drills, first aid procedures, and inclusive measures for all employees, including those with disabilities.

By adopting these SOS guidelines and integrating them with HR policies, M/s Kanishk Steel Industries Ltd. can ensure that employees are prepared for crises, protecting its most valuable asset, its people, while minimizing operational disruptions. Regular training, clear communication, and continuous review of these policies and guidelines will enhance employee trust, organizational stability, and position the company as a responsible and forward-thinking employer.

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ANNEXURE XXX

NEWS PAPER ADVERTISEMENT

PUBLIC NOTICE

This is to inform that proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets unit located at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur district, Tamilnadu has been accorded Environmental Clearance by the State Environmental Impact Assessment Authority of Tamil Nadu. The copies of the said clearance are available with the Tamil Nadu Pollution Control Board and may also be seen on the website of the State Environmental Impact Assessment Authority of TamilNadu at Https://environmentclearance.nic.in/TrackState_proposal.aspx?Type=EC&status=EC_new&statename=Tamil%20Nadu&pno=SIA/TN/IND/19912/2017&pid=62926

By, M/s. Kanishk Steel Industries Limited, Gummidipoondi

பொது அறிவிப்பு

இதன்மூலம் அனைவருக்கும் தெரிவிப்பது என்னவென்றால் M/s. Kanishk Steel Industries Limited, கும்மிடிபூண்டி, என்பவர்களுக்கு சொந்தமான பிளாட் எண். B 27 (N,M&S) SIPCOT தொழில்துறை வளாகம், கும்மிடிபூண்டி, திருவள்ளூர் மாவட்டம், தமிழ்நாடு என்ற இடத்தில் எஃகு உருக்கும்ஆலை மற்றும் உருளும் ஆலையில் 76000 TPA வின் மீண்டும் உருட்டப்பட்ட தயார்ப்புகள் அல்லது கட்டமைப்புகள் மற்றும் 83,000 TPA வின் MS பில்லெட்டுகள் விரிவாக்கத்திற்க்கான மற்றும் மேம்பாட்டிற்கான எங்களின் முன்மொழியப்பட்ட கட்டுமானத்திற்காக மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் ஒப்புதல் நகல்கள் தமிழ்நாடு மாசு கட்டுப்பாட்டு வாரியம் மற்றும் தமிழ்நாடு மாநில சுற்றுசூழல் தாக்கம் மதிப்பீடு ஆணையத்தின் இணையதளத்தில் பெறலாம்.

இடம்: சென்னை

தேதி: 08.08.2024

M/s. KANISHK STEEL INDUSTRIES LIMITED
Gummidipoondi

ANNEXURE XXXI

SIX MONTHLY COMPLIANCE REPORTS SUBMISSION LETTERS & ACKNOWLEDGMENT

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 08/08/2024

To,
The Member Secretary
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMILNADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road Saidapet,Chennai– 15.
Phone: No.044-24359973
FaxNo: 044-24359975
Email: cmantnseiaa@gmail.com
seiaamstn@gmail.com

Sir,

Sub: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: October 2023 to March 2024.

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period October 2023 to March 2024.

KANISHK STEEL INDUSTRIES LTD CHENNAI

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

We are also submitted the softcopy of the report to your good office Email: cmantnseiaa@gmail.com & sciaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition.

Thanking You,

Your's Faithfully

For M/s. Kanishk Steel Industries Limited

(Ashok Bohra)
Director

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period October 2023 to March 2024

Copy submitted to
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office (IRO),
Address: 1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungambakkam, Chennai – 600006
Email: eccompliance-tn@gov.in

The Member Secretary,
Tamil Nadu Pollution Control Board (TNPCB),
Address:76, Mount Salai, Guindy, Chennai - 600 032
Email: tnpcb-chn@gov.in

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

The District Environmental Engineer (DEE),
Tamil Nadu Pollution Control Board (TNPCB),
Address: 88A, First Cross Road, SIPCOT Industrial Complex,
Gummidipoondi - 601201.
Email: deegmp@tnpcb.gov.in

The Joint Chief Environmental Engineer,
Tamilnadu Pollution Control Board (TNPCB),
Address: First Floor, 950/1, Poonamallee High Road,
Arumbakkam, Chennai-600 106.
Email: jceemchn@tnpcb.gov.in

The Regional Directorate
Central Pollution Control Board (CPCB),
Address: 77-A, Padi, Ambattur Industrial Estate,
Chennai – 600058
Email: vlaxmi.cpcb@nic.in

KANISHK STEEL INDUSTRIES LTD CHENNAI-600 004

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 16/12/2024

To,
The Member Secretary
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY–
TAMILNADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road Saidapet,Chennai– 15.
Phone: No.044-24359973
FaxNo: 044-24359975
Email: cmantnseiaa@gmail.com
seiaamstn@gmail.com

Sir,

Sub: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: April 2024 to September 2024.

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period April 2024 to September 2024.

KANISHK STEEL INDUSTRIES LTD. CHENNAI-600 004.

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
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ISO 9001

We are also submitted the softcopy of the report to your good office Email: cmantnseiaa@gmail.com & seiaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition.

Thanking You,

Your's Faithfully

For M/s. Kanishk Steel Industries Limited

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

(Ashok Bohra)
Director

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period April 2024 to September 2024

Copy submitted to
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office (IRO),
Address: 1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungambakkam, Chennai – 600006
Email: eccompliance-tn@gov.in

The Member Secretary,
Tamil Nadu Pollution Control Board (TNPCB),
Address:76, Mount Salai, Guindy, Chennai - 600 032
Email: tnpcb-chn@gov.in

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ISO 9001

The District Environmental Engineer (DEE),
Tamil Nadu Pollution Control Board (TNPCB),
Address: 88A, First Cross Road, SIPCOT Industrial Complex,
Gummidipoondi - 601201.
Email: deegmp@tnpcb.gov.in

The Joint Chief Environmental Engineer,
Tamilnadu Pollution Control Board (TNPCB),
Address: First Floor, 950/1, Poonamallee High Road,
Arumbakkam, Chennai-600 106.
Email: jceemchn@tnpcb.gov.in

The Regional Directorate
Central Pollution Control Board (CPCB),
Address: 77-A, Padi, Ambattur Industrial Estate,
Chennai – 600058
Email: vlaxmi.cpcb@nic.in

KANISHK STEEL INDUSTRIES LTD. CHENNAI 600 004.

Acknowledgment
Six Monthly Compliance Reports of Period October 2023 to March 2024

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114186640
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114186640/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	16-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

Acknowledgment
Six Monthly Compliance Reports of Period April 2024 to September 2024

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114931378
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114931378/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	18-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

ANNEXURE - XXXII

FORM – V

ENVIRONMENTAL STATEMENT

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To

Date:10.12.2024

The District Environmental Engineer,

Tamil Nadu Pollution Control Board

Gummmidipoondi

Dear Sir,

Sub: Submission of Form V under Rule 14

With reference to the above, we are enclosing the Environmental Statement for the financial year ending 31st March -2024 under Rule-14

Encl: Statement Form V for Kanishk Steel Industries Limited

Kindly acknowledge receipt of the same

Thanking you,

Yours faithfully

for Kanishk Steel Industries Limited

Director

(Ashok Bohra)

16 DEC 2024

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART –A

1. Name and address of the owner/ occupier of the : industry/ operation or process	Mr.Vishal Keyal: Chairman & Managing Director Mr.Ashok Bohra: Whole time Director
2.Industry category: Primary (STC Code) Secondary (STC Code)	
3.(a) Production Capacity - Units	A –MS Ingots-36000 Tons/Annum
3.(b) Production Capacity - Units	B-Rerolled Products-54000 Tons/Annum
4.Year of Establishment	1991
5.Date of the last environmental statement submitted	

PART –B

Water and Raw Material Consumption

I. Water Consumption 3577 KL/Yr.

Process	**Actual Require - Ment:-**	2.0 KLD	**Actual Useage as per supply:**	240 KL/Yr
Cooling		21.0 KLD		2520 KL/Yr
Domestic		6.8 KLD		817 KL/Yr
			TOTAL:	**3577 KL/Yr**

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2022-2023	**During the current financial year 2023-2024**
1	MS Ingots	**1.739 Litre/ Ton** [Product output-82245 Tons Total Pr.Water 143 KL]	**2.598 Litre/ Ton** [Product output-92378 Tons Total Pr.Water 240 KL]
2	Rerolled Products		

FORM -V (See rule -14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

(2) Raw Material Consumption

Sl. No	Name of raw materials	Name of Products	Consumption of raw material per unit .	
			During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	MS Scrap	Ms Ingots	**1.232 Tons**	**1.232 Tons**
2	MS Billets	Rerolled Products	**1.097 Tons**	**1.117 Tons**

"Industries may use codes if disclosing details of raw materials would violate contractual obligation, otherwise all industries have to name the raw materials used.

Sl. N	Pollution	Quantity of pollutants discharged (mass/ day)		Concentration of pollutants in discharges (Total /Volume)		Percentage of variatio from prescribed
1	Water	Nil		Nil		Nil
2	Air	**Pollutants concentration (u /g //m3**				Within standard Limits
		PM 10	PM 2.5	SO 2	NO 2	
		76.98	39.25	16.34	18.88	

PART -D

Hazardous Wastes

(as specified under Hazardous Waste(Management,Handling & Transboundary Movement Rules,2008)

Sl. No	Hazardous Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	From process	NIL	NIL
2	From pollution control facilities	NIL	NIL

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART -E

Solid Wastes

Sl. No	Solid Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
(a)	From process (i). Slag (ii). Mill scale	**5329 Tons** **1902 Tons**	**6228 Tons** **2433 Tons**
(b)	From pollution control facilities	**Nil**	**Nil**
(c)	(1). Quantity recycled within the limit-Mill scale	**1217 Tons**	**1826 Tons**
(d)	Mill scale disposed to re-melting	**1246 Tons**	**1855 Tons**
(e)	Slag disposed for crushing and land filling	**862 Tons**	NIL

PART –F

Please specify the characterization(in terms of composition and quantum)of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of waste

Category of Waste	Characteristics	Quantity (M.T)	Disposal Practice
Solid Waste -. Mill scale -. Slag	Captive and Sales ('23- ;24)- 2454 Tons Disposal to processors and also sent for land-filling ('23- ;24)- Nil		
Hazardous Waste	NA	NA	NA

PART –G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

1	Tree Plantation	Invisible benefits to the environment
2	STP water generation	water treated and used for watering plants

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

Total annual expenditure incurred towards environmental protection:

1. Material purchase only: Rs.1,07,84,584/-
2. Erection , Labour charge, Civil Cost: Rs. 18,80,941/-

Total: Rs.1,26,65,525/-

So the visible impact of the pollution abatement measures and environment protection shall be Rs.157.70 per ton of steel apart from invisible benefits due to trees (145.68 L /92377 MT)

PART–H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution:-

1	Continuous planting of trees as and when replacement necessary;
2	Bag filters etc installed from February 2024
3	Shed enclosing to reduce dust while unloading;

PART-I

Any other particulars for improving the quality of environment

1	We are providing safe drinking water from our plant to Ganganthotti village
2	We are regularly sprinkling water in an around the units, to suppress dust.
3	We also reimburse the cost of LPG cylinder refilling cost to the employees to avoid coal burning.
4	Regular monitoring of Air Quality by online system.
5	We have already done the tree plantation joh and this is a continuous process in and around company areas and Gummidipoondi SIPCOT Office area

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings,	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT'office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date- Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3.475/-	
4	Tamarai eri deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided:		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided:		Rs. 30,000/-	
	TOTAL		**Rs.17,42,301/**	

7	CSR Activity Expenses done viz Amount sponsored for"Clean Ganga Fund during 2021-'22	**Rs. 6,98,200/-**
8	CSR Activity Expenses done during 2022-'23	**Rs.10,22,000/-**
9	CSR Activity Expenses done during 2023-'24	**Rs.19,02,000/-**

Name of Unit–

M/s Kanishk Steel Industries Ltd.,Gummidipoondi. TiruvallurDt.T.Nadu

For Kanishk Steel Industries Limited

(Ashok Bohra)

Director

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings,	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT'office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date- Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3.475/-	
4	Tamarai en deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided:		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided:		Rs. 30,000/-	
	TOTAL		Rs.17,42,301/	

7	CSR Activity Expenses done viz Amount sponsored for "Clean Ganga Fund during 2021-'22	Rs. 6,98,200/-
8	CSR Activity Expenses done during 2022-'23	Rs.10,22,000/-
9	CSR Activity Expenses done during 2023-'24	Rs.19,02,000/-

Name of Unit-

M/s Kanishk Steel Industries Ltd ,Gummidipoondi, TiruvallurDt.T.Nadu

For Kanishk Steel Industries Limited

Director

ANNEXURE XXXIII

EXPENDITURE DETAILS OF PROJECT EXPANSION ACTIVITY

ent Authori... Date: 31/...



KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Details of expenditure for Expansion of our new furnace,pollution control and related equipments.

1). Cranes	Ankit Equip	12.12.23	4720000	
		19.1.24	2596000	
			7316000	7316000
2).Factory Civil,Erection etc				
	Kalyan Mech Works	7.8.23	200000	
		31.10.23	300000	
	Shami Fabricators			
		18.3.24	974000	
		19.923	833000	
	SSS Engg	29.9.23	1030941	
		1.11.23	1690077	
		21.3.24	1121000	
			6149018	6149018
3).	Plant and Mach		7489342	
	PK Enterprises			
	Pollution Control Equip			
	Apr to Jun 23 (8 Bills)			
		26.3.23	788830	
		28.3.23	743754	
	Paltech Cooling Twrs		2665620	
	Water Cooling			
			11687546	11687546
4). Plant and Mach				
	Electrotherm Furnace			
		2.5.23	9503606	
		1.8.23	8200347	
			17703953	17703953
				42856517

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

STATUS OF COMPLIANCE ON THE CONDITION IN HE ENVIRONMENTAL CLEARANCE

Steel Melting Plant and Rolling Mill at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District - 601201



By

M/s Kanishk Steel Industries Limited
Gummidipoondi Taluk,
Thiruvallur District.

Status of EC Compliance conditions:

SI. No.	Conditions	Compliance Status
	STATUTORY COMPLIANCE	
III.	It is necessary to be carried out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu. **Attached document of Safety Training Photos – Annexure I**
IV.	It is recommended to prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Annual safety audit is conducted by professionals with expertise in the field of safety. Additionally, regular training programs are organized for employees to enhance their awareness and understanding of safe operations. The observations and recommendations from the safety audit are carefully reviewed and implemented to maintain a safe and secure working environment for all. The photograph showing the recent safety training program is enclosed as annexure. **Attached document of Safety Training Photos Annexure I & Safety Audit Report – Annexure II**

SI. No.	Conditions	Compliance Status
V.	As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	As a part of health surveillance Pre-medical examination for the employees has been carried out. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. **Attached M/S KSIL MOU WITH HOSPITAL Agreement Copy – Annexure III**
VI.	The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.	We are obtained authorization for handling the waste generation from TNPCB valid for a period upto 31/03/2027 and recycler Agreement. **Hazardous Waste Authorization -HWA and Agreement Copy as Annexure IV**
VII.	A necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.	Water is being supplied by the SIPCOT Necessary and Agreement made with SIPCOT is **Attached NOC - Wildlife Clearance document with SIPCOT – Annexure V**
XII.	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe Conditions during the plant safety meeting.	Safety training was conducted to the employees through Directorate of Industrial Safety. Safety audit carry out in the different operating zones of the plant **Attached document of Safety Training Photos – Annexure I**
XIV.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden ,Chennai **Attached NOC - Wildlife Clearance document with SIPCOT – Annexure V**

SI. No.	Conditions	Compliance Status
XVI.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	Consent for Establishment is under Water Act obtained consent order Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022 and CTE for under Air Act obtained vide PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022 from TNPCB Consent to Operate is obtained under Air (Prevention & Control of Pollution) Act,1981, PROCEEDINGS No. T1/TNPCB/F.0119 GMP/OL//GMP/A/2023, DATED: 08/12/2023 Consent to Operate is obtained under Water (Prevention & Control of Pollution) Act, 1974, PROCEEDINGS No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023DATED:08/12/2023. **Documents of CTE and CTO Consent order under Water & Air Act is attached as Annexure – VI & VII**
XVII.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	HWA authorization was obtained Vide Proceeding No. T2/TNPCB/F.0119GMP/HWA/OL/GMP/2022 dated 30/08/2022 and valid upto 31/03/2027 from TNPCB. **Attached HWA authorization & Recycler Agreement document as Annexure IV**

Sl. No.	Conditions	Compliance Status
	Air quality monitoring and preservation:	
III.	The project proponent shall install system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM-10 and PM-25 in reference to PM emission and SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Ambient Air Quality monitoring for the parameters PM 10,PM 2.5 , SO2, NOx are carried by TNPCB labs survey dated 02/07/2024 and the copy of results of **Analysis Report of Analysis AAQ Survey Monitoring Data enclosed as Annexure VIII**
IV	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and /or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions with in permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Suitable Air pollution control measures Such as Bag filter to furnaces7T & 12Tare provided. Adequate stack height 32m respects to the 7T Induction Furnace and 12T Induction Furnace provided. **Attached Stack Monitoring report as Annexure IX**
VII.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.826 (E) dated 16th November,2009 shall be complied with.	**Attached Agreed to Complied undertake letter as Annexure X**
	Water Quality Monitoring and Preservation	
III.	The Sewage effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	**Attached document of Treated Sewage Effluent discharge Monitoring Data as Annexure - XI**

SI. No.	Conditions	Compliance Status
IV.	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	All our water is recycled except for evaporation losses. **Attached Water Balance chart and Water Agreement is attached as Annexure XII**
	NOISE MONITORING AND PREVENTION	
II.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Adequate noise control measures provided **Attached documents of Ambient/Source Noise level monitoring data as Annexure XIII**
III.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz 75 dB(A) during day time and 70dB(A) during night time.	TNPCB survey conducted on date 02/07/2024 Noise levels are within the standards prescribed. **Attached documents of Ambient/Source Noise level monitoring data as Annexure XIII**
	Safety, Public Hearing and Human health issues	
I.	Emergency preparedness plan on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	There is no hazardous chemical handle in the unit hence Hazard identification does not arise. On-Site Emergency response plan , Risk Assessment and Disaster Management plan available and copy attached as Annexure XIV
II.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Firefighting system provided around the plant as per the norms **Attached Fire Service license and Fire Mock Drill report document as Annexure XV**

SI. No.	Conditions	Compliance Status
IV.	'Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling Of chemicals shall be imparted.	As a part of Safety Audit Safety Training was conducted to the employees through Directorate of Industrial Safety **Attached document as Annexure I**
VI.	Occupational health surveillance of the workers shall be done on a regular basis and Records maintained as per the Factories Act	OHS is being carried regularly **Attached document of M/S KSIL MOU with Hospital as Annexure III**
	Corporate Environment Responsibility:	
I.	As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs. 8.45 lakhs as committed in the affidavit. The CER activities shall be carried out before obtaining CTO from TNPCB	The Corporate Environmental Responsibility (CER) activities for the amount of **Rs 17.46 lakhs** have been spent. **Attached Undertaking CER details as Annexure XVI**
II.	The company shall have a well laid down environment policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environment/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms/conditions and / or share holders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	**Attached document of Health, Safety & Environmental Policy as Annexure XVII**

SI. No.	Conditions	Compliance Status
III.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell **Attached Organization structure of Environment Management Cell chart as Annexure XVIII**
V.	Self environmental audit shall be conducted annually. Every three years third party Environmental audit shall be carried out.	**Attached Environmental Audit Report document as Annexure XIX**
	SPECIFIC CONDITIONS	
2.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.	"Consent for Establishment" is obtained vide under Water Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu. **Attached CTE document as Annexure VI**

SI. No.	Conditions	Compliance Status
3.	"Consent to Operate" should be obtained from the TNPCB before the start of the operation of the project and copy shall be submitted to the SEIAA, Tamilnadu	The Consent to Operate is obtained, as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No. **T1/TNPCB/F.0119GMP/OL/GMP/W/2023** DATED: **08/12/2023** 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. **T1/TNPCB/F.0119GMP/OL//GMP/A/2023** DATED: **08/12/2023** Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. **Attached document of CTO renewal of Air Act & Water Act is attached in Annexure-VII**
4.	The implementation of Environment Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous Waste Management, and CSR activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.	M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management and CSR activities carried out as proposed and committed. Regular monitoring carried out during operation phases. **Attached document in Annexure XX**
8.	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.	**Attached document in Annexure IV**
9.	The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.	Hazardous wastes are stored in a separate place. **Attached document in Annexure XXI**

SI. No.	Conditions	Compliance Status
10.	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.	Hazardous Waste handed through recycler as per authorization. **Attached Hazardous Waste Agreement document in Annexure -IV**
14.	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM25, SOx, NOx) through TNPC/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.	TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox & NOx etc., **Attached document in Annexure VIII**
15.	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	Through TNPCB lab analysis **Attached Monitoring Data on the Air quality, Water quality and Noise in Annexure XXII**
16.	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environment safeguards.	Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu. **Attached document of Environment Management Cell in Annexure XVIII**

SI. No.	Conditions	Compliance Status
17.	The Greenbelt area already developed within the project area shall be properly maintained.	**Attached Undertaking with details of Green Belt development document in Annexure XXIII**
18.	The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	The greenbelt area for 33.17% of total land which has area of 1.0ha developed. **Attached Undertaking with details of Green Belt development document in Annexure XXIII**
19.	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print. **Attached** document in **Annexure-XXIII**
20.	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities: **Attached Preliminary Risk Assessment document in Annexure XXIV**
22.	The industry shall conduct air sampling at Least twice in a week (104 times in a year). As stipulated under EP Act 1986.	Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted. **Attached Photo Furnace Stacks and Care Air Centre Online Connectivity document in Annexure XXV**
23.	Risk cum disaster management plan should be in placed in the industry premises at all times.	Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Attached document of Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan & Fund Donations Details is attached as Annexure XXVI

SI. No.	Conditions	Compliance Status
26.	The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/Honb'le High Court of Madras.	**Attached Agreed to Complied undertake letter as Annexure X**
27.	All the assurances given in EIA and EMP shall be adhered strictly.	**Attached Agreed to Complied undertake letter as Annexure X**
28.	Detail study shall be carried out by engaging accredited agencies/reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.	Onsite emergency management plan are prepared and available site premises to manage risk. **Attached document in Annexure XXVI**
29.	Sufficient funds should be provided	Risk cum Onsite Emergency Management Plan is available within the site. Sufficient funds available to manage Disaster Management. **Attached document in Annexure XXVI**
32.	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.	As part of safety Audit Safety training program was conducted to the employees through (DISH) Directorate of Industrial **Safety** and Health Government of Tamil Nadu. **Attached document in Annexure I**

SI. No.	Conditions	Compliance Status
33.	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.	Annual safety audit is conducted by professionals with expertise in the field of safety. Additionally, regular training programs are organized for employees to enhance their awareness and understanding of safe operations. The observations and recommendations from the safety audit are carefully reviewed and implemented to maintain a safe and secure working environment for all. The photograph showing the recent safety training program is enclosed as annexure. . **Attached document as Annexure I**
34.	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed	M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. **Attached MOU with Hospital document in Annexure III**
36.	The EMP cost of Rs.45 Lakhs for capital cost and recurring cost of Rs.7lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. **The EMP cost and Bank account with head wise expenses statement of the investment – Attached document in Annexure XXVII**
37.	There should be no threat to Biodiversity due to the operation of the industry.	Due to the operation of the M/S KSIL industry there is no threat to Bio diversity. **Attached Agreed to Complied undertake letter as Annexure X**

SI. No.	Conditions	Compliance Status
39.	The operation of the activity should not impact on the soil, micro flora& Fauna present in and around the project site.	The operation of mill does not have any impact on the soil, micro flora& Fauna present in and around the project site. **Attached Agreed to Complied undertake letter as Annexure X**
41.	The project proponent shall carryout risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.	The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities. **Attached document in Annexure XXIV**
43.	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.	The CER activities for the amount of 17.46 lakhs have been spent. **Attached Agreed to Complied undertake letter as Annexure X**
	GENERAL CONDITIONS	
1.	The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.	**Attached Agreed to Complied undertake letter as Annexure X**
2.	No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB	**Attached Agreed to Complied undertake letter as Annexure X**
3.	"Consent for Establishment" shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.	**Attached Agreed to Complied undertake letter as Annexure X**
4.	Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.	**Attached Agreed to Complied undertake letter as Annexure X**

SI. No.	Conditions	Compliance Status
5.	The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and **open** area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.	**Attached Agreed to Complied undertake letter as Annexure X**
6.	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	The CSR activities for the amount of 43.22 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like ● Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. **Attached CSR Activity document in Annexure XXVIII**
7.	The Project proponent has to spend the CER Fund of Rs.8.45 Lakhs (2% of the project cost for the various activities as per MoEF&CC OM dated 1.05.2018.	The Corporate Environmental Responsibility (CER) activities for the amount of Rs. **17.46** lakhs have been spent. **Attached document in Annexure XVI**

SI. No.	Conditions	Compliance Status
8.	CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within5 km of the site and in constant consultation with the village Panchayat and the District Administration.	We undertake various socio economic schemes under CSR schemes in the surrounding villages like ● Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt. primary school at Ma Po Si Nagar nearby & Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. School Bag Kits given to primary school. **Attached Letter of Agreed to Complied EC Conditons Undertake for CSR Activity document in Annexure XXVIII**
9.	It shall been sured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	**Attached Social Audit Report document in Annexure - XXIX**
11.	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall been sured that the Head of the Cell shall directly report to the Head of the Organization.	Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. **Attached document in Annexure XVIII**

SI. No.	Conditions	Compliance Status
12.	Allthemeasuresregardingoccupationalhealthsurveillanceoftheworkersshallbeundertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.	The industrial planner take steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are take: ●Conducting awareness programs at regular intervals to the employees ●Providing safety kits and prevention kits ●Provision of Clinic at the plant site to handle emergency situations that may arise. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for thr purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. **Attached document in Annexure III**
13.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/FMP report.	Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. **Attached document in Annexure XXVII**
14.	The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.	We are implemented EMP mention in affidavit. **Attached Agreed to Complied undertake letter as Annexure X**

SI. No.	Conditions	Compliance Status
15.	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.,	M/s. KSIL undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. ● Enhanced library facility for Pedikuppam Govt. School ● Provision of educational Kits and accessories to nearby Govt. School. ● Safe drinking water for nearby Villages. ● CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby. ● Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. **Attached document in Annexure XXVIII**
16.	The Project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh. nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.	The details of Environmental Clearance obtained have been published in 2 local Daily Newspapers. **Attached document in Annexure XXX**

SI. No.	Conditions	Compliance Status
17.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.	We submitted Six monthly compliance reports of period October 2023 to March 2024 and Six monthly compliance reports of period April 2024 to September 2024 are submitted to the regional office to the Ministry along with acknowledgment and put on the website of the Company. **Attached document in Annexure XXXI**
18.	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. **Attached Form-V document in Annexure XXXII**
20.	Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	We have obtained CTE before starting the project and CTO obtain before operating the project **Attached document in Annexure XXXIII**

SI. No.	Conditions	Compliance Status
21.	Full co-operation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status. **Attached Agreed to Complied undertake letter as Annexure X**
22.	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air/emission standards prescribed by the CPCB/ MoEF & CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.	Air Pollution Control (APC) measures are provided to all the Furnaces to achieve the air/emission standards prescribed by the CPCB/ MoEF & CC and same also connected to the CARE AIR centre of TNPCB for online monitoring and Stack monitoring Survey are done by TNPCB and Survey report are Attached for reference. **Attached document in Annexure XXV**
23.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.	**Attached Agreed to Complied undertake letter as Annexure X**
24.	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.	**Attached Agreed to Complied undertake letter as Annexure X**
25.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.	**Attached Agreed to Complied undertake letter as Annexure X**

SI. No.	Conditions	Compliance Status
26.	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.	**Attached Agreed to Complied undertake letter as Annexure X**
27.	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.	**Attached Agreed to Complied undertake letter as Annexure X**
28.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.	**Attached Agreed to Complied undertake letter as Annexure X**

ANNEXURES

LIST OF ANNEXURES

ANNEXURES	TITLE
ANNEXURE I	SAFETY TRAINING SESSION
ANNEXURE II	SAFETY AUDIT REPORT
ANNEXURE III	M/S KSIL MOU WITH HOSPITAL
ANNEXURE IV	HAZARDOUS WASTE AUTHORIZATION & AGREEMENT COPY
ANNEXURE V	NOC - WILD LIFE CLEARANCE
ANNEXURE VI	CONSENT TO ESTABLISH CTE - AIR ACT & WATER ACT
ANNEXURE VII	CONSENT TO OPERATE CTO - AIR ACT & WATER ACT
ANNEXURE VIII	REPORT OF ANALYSIS AAQ SURVEY MONITORING DATA
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ANNEXURE X	LETTER OF AGREED TO COMPLIED ECCONDITONS UNDERTAKE
ANNEXURE XI	TREATED SEWAGE EFFLUENT DISCHARGE MONITORING DATA
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ANNEXURES	TITLE
ANNEXURE XVI	COST DETAIL FOR CORPORATE ENVIRONMENTAL RESPONSIBILITY (CER)
ANNEXURE XVII	HEALTH, SAFETY & ENVIRONMENTAL POLICY
ANNEXURE XVIII	ORGANISATIONAL CHART OF ENVIRONMENTAL CELL
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ANNEXURE XX	EMP IMPLEMENTATION SCHEDULE
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ANNEXURE XXVI	DISASTER MANAGEMENT PLAN & FUND DONATIONS DETAILS
ANNEXURE XXVII	EMP COST AND BANK ACCOUNT WITH HEAD WISE EXPENSES STATEMENT
ANNEXURE XXVIII	LETTER OF AGREED TO COMPLIED EC CONDITONS UNDERTAKE FOR CSR ACTIVITY
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ANNEXURES	TITLE
ANNEXURE XXX	NEWS PAPER ADVERTISEMENT
ANNEXURE XXXI	SIX MONTHLY COMPLIANCE REPORTS SUBMISSION LETTERS & ONLINE SUBMISSION ACKNOWLEDGMENT
ANNEXURE XXXII	FORM – V ENVIRONMENTAL STATEMENT
ANNEXURE XXXIII	EXPENDITURE DETAILS OF PROJECT EXPANSION ACTIVITY

सत्यमेव जयते

भारतसरकार

GOVERNMENT OF INDIA

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

क्षेत्रीय कार्यालय/ Regional Office

1st Floor, Additional Office Block for GPOA, Shastri Bhawan, Haddows Road

Nungambakkam, Chennai - 600034; Email: roefccc1@gmail.com

F.No. EP/12.1/2024-25/SEIAA/98/TN/630 **Date: 21st April 2025**

To

Mr.Ashok Bohra,
Director, M/s. Kanishk Steel Industries Limited,
B-27N, B-27M, B-27S, SIPCOT Industrial Complex,
Gummidipoondi - 601 201.
E-mail ID.: kanishkgpd@gmail.com

Sub: Requisition to submit the Action Taken Report/Clarification and Undertaking towards the non/partial and agreed to comply compliance observed during the site visit – Reg.

Ref: 1. Your request letter dated 24/01/2025 to issue a Certified Compliance Report (CCR).
2. SEIAA-TN vide EC Letter No. SEIAA-TN/ F.No.6430 /EC/ 3(a)/ 78/ 2020 dated: 10.11.2020.

Sir,

This is in reference to your request letter cited in the reference above for the issue of a Certified Compliance Report (CCR) towards the project *"SEIAA-TN Environmental Clearance - Proposed Expansion of Steel Melting Plant and Rollin Mill for the Production of 76,000 TPA of Re-Rolled Products / Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance – Category B1 & Schedule item No. 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous)".*

2. This project was monitored by undersigned on 13/02/2025. Non/partial and agreed to comply compliances observed during the site visit are given in Annexure 1.

3. The PP shall submit an Action Taken Report/Clarification and Undertaking to this office for the non/partial and agreed to comply compliances observed during the site visit within 30 days from the receipt of this letter for further necessary action.

This has the approval of the Competent Authority.

Enclosure: As above.

21/04/2025

(Dr.S.Pradeepkumar)
Scientist 'B'

Dr.S.Pradeepkumar
Scientist 'B'
Government of India
Regional Office
Ministry of Environment, Forest and Climate Change,
Shastri Bhavan, Haddows Road, Nungambakkam,
Chennai - 600 006, Tamilnadu.

Annexure-I

Sl. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai
Statutory Compliance			
i)	The green belt should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied 33.17% of total plot area is developed as greenbelt area with native trees.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant **(Refer Site Visit Photos)**. At the same time, the PP has developed greenbelt in the land available outside the plant **(Refer Site Visit Photos)**.
v)	As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	Complied As a part of health surveillance Pre-medical examination for the employees has been carried out. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. Attached MOU Copy – Annexure V Page No.90.	**Not Complied** The PP has not submitted the relevant documents during the site visit.
xv)	The project proponent shall prepare a Site-Specific Conservation plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden, Chennai	**Partly Complied** It was observed from the NOC obtained from NBWL vide Ref No. WL5/ 21519/ 2022 dated 01/03/2024 stating that the PP is requested to send the impact mitigation plan of marine and wildlife conservation of pulicat bird sanctuary. However, the PP has not provided the copy of the above-mentioned plan submitted to the NBWL.

	case of the presence of schedule-I species in the study area)		
Corporate Environment Responsibility:			
ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied.	**Partly Complied** It was observed from the documents submitted by the PP that the PP has laid down environmental policy duly approved by the Board of Directors. The environmental policy prescribed for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest /wildlife norms/ conditions. The company have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The PP has not submitted the copy of the board resolution in this regard submitted to the MoEF&CC as a part of six-monthly report.
iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Complied EMP implemented EMP details are Enclosed - 7 Page No.51	**Not Complied** The PP has not furnished relevant documents.

SPECIFIC CONDITIONS

S. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai

17	The Green belt area already developed within the project area shall be properly maintained.	Agreed to comply	**The PP agreed to Comply**
18	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied The greenbelt area for 33.17% of total land which has area of 1.0 ha developed.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt which is not covered 33% of the total project area mainly along the plant periphery, in downward wind direction, and along road sides etc.
19	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.	**The PP agreed to comply.**
20	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities	**Not Complied** The PP has not provided the relevant documents during the site visit.
26	The environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT / Hon'ble High Court of Madras.	Agreed to Comply.	**The PP agreed to comply**
27	All the assurances given in EIA and EMP shall be adhered strictly.	Complied.	**The PP agreed to comply**
29	Sufficient funds should be provided for Disaster management.	Complied. Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.	**Not Complied** The PP has not provided relevant documents during the site visit.
34	If the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in	Being Complied M/s Kanishk steel Industries Limited signed	**Not Complied** The PP has not submitted the relevant documents during the site visit.

	the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.	
36	The EMP cost of Rs.45 lakhs for capital cost and recurring cost Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment –Enclosure-9 page No.53	**Not Complied** The PP has not provided the relevant documents during the site visit.
40	The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.	Not Applicable	**Not Complied** The PP has not provided the relevant documents during the site visit.

General Conditions:

S. No.	EC Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai
1.	The Environmental Clearance does not absolve the applicant / proponent of his obligation / requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.	Agreed to comply	**The PP agreed to Comply**

2.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.	Agreed to comply	**The PP agreed to Comply**
5.	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.	Complied Rain water harvesting measures provided inside plant	**Partly Complied** It was observed during the site visit that the PP has installed rain water harvesting measures and developed water storage for use in operation of the plant **(Refer Site Photos).** The copy of action plan for implementation submitted to the MoEF&CC Regional Office within six months has not submitted.
9.	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Agreed to comply	**Partly Complied** It was observed from the documents submitted by the PP that the PP has in-built monitoring mechanism for the schemes identified in place and annual social audit was done **(Annexure 1).** The copy of the status of implementation of the scheme from time to time was not submitted by the PP.
10.	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.	Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands whenever required.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant area **(Refer Site Photos).**
12.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be	Complied. The industrial planner takes steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and	**Not Complied** The PP has not provided relevant documents during the site visit.

	ensured as per the Factories Act and records maintained.	rolling mill. The following measures are taken: • Conducting awareness programs at regular intervals to the employees • Providing safety kits and prevention kits • Provision of Clinic at the plant site to handle emergency situations that may arise. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.	
14.	The proponent shall furnish an undertaking that they will abide by the conditions / recommendations mentioned in the EMP report furnished by them.	We are implemented EMP mention in affidavit.	**The PP agreed to comply.**
16.	The Project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh.nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional	Compiled The details of Environmental Clearance obtained have been published in 2 local Daily News papers. Enclosed -11 Page No.55	**Partly Complied** It was observed from the documents submitted by the PP that the PP has informed the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and seen at Website of SEIAA, TN at parivesh.nic.in. **Annexure – 1.** No information was provided regarding the advertisement published within seven days from the date of issue of the clearance letter, however, the PP has published in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.

	Office of the MoEF at Bengaluru.		A copy of the same forwarded to the Regional Office of the MoEF at Bengaluru was not submitted.
18.	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. Copy of Form V – Annexure XI Page No.157	**Partly Complied** It was observed from the documents submitted by the PP that the PP has submitted the Environmental Statement in Form V to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently **Annexure – 1.** The copy of the same was not put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.
20.	Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied We have obtained CTE before starting the project and CTO obtain before operating the project.	**Not Complied** The PP has not submitted the relevant documents during the site visit.
21.	Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.	Agreed to comply We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.	**The PP agreed to comply.**
23.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may al so impose	Agreed to comply.	**The PP agreed to comply.**
24.	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.	Complied	**The PP agreed to comply.**

25.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection)Act,1986.	Agreed to Comply.	**The PP agreed to comply.**
26.	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Agreed to Comply.	**The PP agreed to comply.**
27.	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.	Agreed to Comply.	**The PP agreed to comply.**
28.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No appeal was made during the specified period.	**The PP agreed to comply.**

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
ShastriBhavan, Haddows Road
Nungambakkam,Chennai–600006.

Date: 22/04/2025

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, GummidipoondiTaluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref:

1. Environmental Clearance from SEIAA Letter No. SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated 10.11.2020
2. Our request letter to MoEF&CC, IRO to issue a Certified Compliance Report (CCR) on dated 24/01/2025.
3. Site Inspection by Dr. S. Pradeepkumar, Scientist 'B', MoEFCC, RO Chennai, on 13.02.2025
4. Our email titled"Submission of compliance status of M/s Kanishk Steel Industries Ltd." on date 20/02/2025
5. Our email titled "Submission of EC Compliance Conditions Additional Documents – KANISHK STEEL INDUSTRIES LTD" dated 04.04.2025
6. Letter from MoEF&CC, IRO, No. F.No. EP/12.1/2024-25/SEIAA/98/TN/630 dated 21.04.2025

With reference to the above, ref No. 5, we received a letter from the MoEF&CC, IRO, Chennai requesting the submission of an Action Taken Report / Clarification / Undertaking regarding the non-complied or partially complied conditions observed during the said site inspection at M/s. Kanishk Steel Industries Limited, Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District on 13.2.2025.

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Accordingly, we are hereby submitting the detailed reply and supporting documents addressing the observations made by the Regional Office, Chennai, as annexure herewith for the not complied, partially complied and agreed to comply points for your kind perusal and We sate that we had mostly complied with all the EC conditions and hence we request issue of Certified Compliance Report CCR for our industry at the earliest. .

For M/s. Kanishk Steel Industries Limited

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

Enclosures

1. **Point wise action taken report for the observation made by RO office – Annexure I**
2. **Letter for Undertaking for the conditions reference with Agreed to comply - Annexure II**
3. **Supporting documents attached as Annexure III**

POINT WISE ACTION TAKEN REPORT FOR THE OBSERVATION MADE BY RO OFFICE

Steel Melting Plant and Rolling Mill at Plot No. B 27 (N,M&S) SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District – 601201



By

M/s KANISHK STEEL INDUSTRIES LIMITED

Gummidipoondi Taluk, Thiruvallur District

POINT WISE ACTION TAKEN REPORT FOR THE OBSERVATION MADE BY RO OFFICE

ANNEXURE-I

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
	STATUTORY COMPLIANCE			
I.	The green belt developed should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	**Complied** 33.17% of total plot area is developed as greenbelt area with native trees.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant (Refer Site Visit Photos). At the same time, the PP has developed greenbelt in the land available outside the plant (Refer Site Visit Photos).	**Fully complied** The existing plant has been developed with a greenbelt area of 1 hectare (33.17%), The greenbelt has been developed along the plant boundary and open spaces Since there is insufficient land within the plant premises, **greenbelt development has also been undertaken in and around the site** with prior **SIPCOT permission**, utilizing **SIPCOT land & common land**. The total greenbelt development area, including both inside and outside the site premises, amounts to **6.2 acres (2.5 hectares)**, which represents **88.9%** of the total area. Thus,

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				the combined greenbelt coverage (inside and outside) is **116.25%** (i.e., **88.9% + 33.33%**), exceeding the regulatory requirements. **Attached Undertaking with details of Green Belt development document in Annexure I**
V.	As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.	Complied As a part of health surveillance Pre-medical examination for the employees has been carried out. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP	**Not Complied** The PP has not submitted the relevant documents during the site visit.	**Fully complied** M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. Employees medical examination test report. Alpha Hospital has provided training in Basic Life Support (BLS). Senior

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
		facilities for their existing and retired employees and to their dependents. **Attached MOU Copy – Annexure V Page No.90.**		officials of KSIL participated in First Aid Training Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference **Attached M/s KSIL MOU WITH HOSPITAL & Employees medical examination test report document & training in Basic Life Support (BLS) in Annexure II**
XV.	The project proponent shall prepare a Site-Specific Conservation Plan and Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan	NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden ,Chennai	**Partly Complied** It was observed from the NOC obtained from NBWL vide Ref No. WLS/ 2l5l9l 2022 dated 0110312024 stating that the PP is requested to send the impact mitigation plan of marine and wildlife conservation of pulicat bird sanctuary. However, the PP has not	**Fully complied** NOC is obtained from Principal Chief Conservators of Forests and Chief Wildlife Warden,Chennai. We given the compliance stipulated in the NOC submitted to the Principal Chief Conservators of Forests and Chief WildlifeWarden, Chennaivide our letter dated10/03/2024.

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
	shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (Incase of the presence of schedule-1 species in the study area).		provided the copy of the abovementioned plan submitted to the NBWL.	In NOC It is stated that the project proponent shall obtain all other statutory clearance and also submit Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary if required. we have furnished reply there is no requirement of wild life conservation plan fully complied with this conditions **Attached copy of the letter submitted to Principal Chief Conservators of Forests and Chief Wildlife Warden ,Chennailetter date** 10/03/2024**and Undertaking letter as Annexure III**
	Corporate Environment Responsibility:			
II.	The company shall have a well laid down environment policy duly approve by the Board of	Complied.	**Partly Complied** It was observed from the documents submitted bythe PP	**Fully complied** The company has well defined environmental policy approved by

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
	Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environment/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms/conditions and / or share holders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.		that the PP has laid down environmental policy duly approved by the Board of Directors. The environmental policy prescribed for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/violation of the environmental I forest /wildlife norms/ conditions. The company have defined system of reporting infringements I deviation / violation of the environmental I forest / wildlife norins / conditions and I or shareholders / stake holders. The PP has not submitted the copy of the board resolution in this regard submitted to the MoEF&CC as a part of six-month regard submitted to	the Board of directors. **Copy of Health, Safety & Environmental Policy and copy of the board resolution attached as Annexure V.**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
			the MoEF&CC as a part of Six-monthly report.	
IV.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Complied EMP implemented **EMP details are Enclosed - 7** **Page No.51**	Not Complied The PP has not furnished relevant documents.	**Fully complied.** EMP implementation schedule and Total Cost of about Rs.170.89 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost and Bank account with head wise expenses statement of the investment – **Attached document in Annexure IV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
	SPECIFIC CONDITIONS			
17.	The Greenbelt area already developed within the project area shall be properly maintained.	Agreed to comply e	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**
18.	The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department	Complied The greenbelt area for 33.17% of total land which has area of 1.0ha developed.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt which is not covered 33o% of the total project area mainly along the plant periphery in downward wind direction, and along road sides etc.	**Fully complied** The existing plant has been developed with a greenbelt area of 1 hectare (33.17%), The greenbelt has been developed along the plant boundary and open spaces Since there is insufficient land within the plant premises, **greenbelt development has also been undertaken in and around the site** with prior **SIPCOT permission**, utilizing **SIPCOT land & common land**. The total greenbelt development area, including both inside and outside the site premises, amounts to **6.2 acres (2.5**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				hectares), which represents **88.9%** of the total area. Thus, the combined greenbelt coverage (inside and outside) is **116.25%** (i.e., **88.9% + 33.33%**), exceeding the regulatory requirements. **Attached Undertaking with details of Green Belt development document in Annexure I**
19.	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
20.	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.	Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:	**Not Complied** The PP has not provided the relevant documents during the site visit.	**Fully complied** A preliminary hazard analysis is carried out initially to identify the major hazards associated with storage and the processes of the plant. This is followed by consequence analysis to quantify these hazards. The various process activities involved in the plant purely mechanical operations those are not complex or hazardous. Hence, no major hazards with potential for any emergency situation exist in the process plants.. **Attached document of Risk Assessment in Annexure VI**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
26.	The environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT / Hon'ble High Court of Madras.	Agreed to Comply	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV.**
27.	All the assurances given in EIA and EMP shall be adhered strictly.	Complied.	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**
29.	Sufficient funds should be provided for Disaster management.	Complied. Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.	**Not Complied** The PP has not provided relevant documents during the site visit.	**Fully Complied.** Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management. **Attached Onsite emergency Plan document in Annexure VII and Attached Disaster Management plan & Donation of Funds details document in Annexure VIII**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
34.	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed	Being Complied M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.	**Not Complied** The PP has not submitted the relevant documents during the site visit.	**Fully complied** M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. Employees medical examination test report. Alpha Hospital has provided training in Basic Life Support (BLS). Senior officials of KSIL participated in First Aid Training Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference **Attached M/s KSIL MOU WITH HOSPITAL & Employees medical examination test report document & training in Basic Life Support (BLS) in Annexure II**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
36.	The EMP cost of Rs.45 Lakhs for capital costandrecurringcostofRs.7lakhsshallbedeposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.	Agreed to comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment – **Enclosure-9 page No.53**	**Not Complied** The PP has not provided the relevant documents during the site visit.	**Fully complied** Total Cost of about Rs.170.89 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control & treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost and Bank account with head wise expenses statement of the investment – **Attached EMP document in Annexure V**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
40.	The proponent should continuously monitor the VOC and ensure that VOC levels are with in permissible limits.	Not Applicable	**Not Complied** The PP has not provided the relevant documents during the site visit.	**Fully complied** We continuously monitoring the VOC and VOC levels are with in permissible limits. **Attached VOC monitoring test report in Annexure IX**
	GENERAL CONDITIONS			
1.	The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.	Agreed to comply	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**
2.	No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB	Agreed to comply	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
5.	The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office within six months.	Complied Rain water harvesting measures provided inside plant	**Partly Complied** It was observed during the site visit that the PP has installed rain water harvesting measures and developed water storage for use in operation of the plant (Refer Site Photos). The copy of action plan for implementation submitted to the MoEF&CC Regional Office within six months has not submitted.	-

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
9.	It shall been sured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Agreed to comply	**Partly Complied** It was observed from the documents submitted by the PP that the PP has in-built monitoring mechanism for the schemes identified in place and annual social audit was done (Annexure 1). The copy of the status of implementation of the scheme from time to time was not submitted by the PP.	**Fully complied** We are done Social Audit report as per monitoring of compliance of EC conditions with third party audit M/s Wasmanpro Environmental Solutions. At the Social Audit report are given implemented details of following • Man Power Management • Human Resources Policies and Procedures • Working hour, wage and benefits • Employee State Insurance (ESI) • Holidays • Health and Safety • Emergency Preparedness and Response • Non-Discrimination and Equal Opportunity • 1AntiHarassment & Abuse • Workplace Conduct • Promotion and

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				Career Development • Child Labor, Forced Labor • Inclusive Work Environment • Accountability and Continuous Improvement • Retrenchment • Grievance Mechanism • Information Disclosure • Corporate Social Responsibility • Addressing Water Scarcity • Supporting Education and Educational Infrastructure • Improving Sanitation Facilities • Environmental Sustainability Initiatives **Attached Social Audit report as Annexure X**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
10.	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least80%.	Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands when ever required.	**Partly Complied** It was observed during the site visit that the PP has developed minimal greenbelt inside the plant area (Refer Site Photos).	**Fully complied** The existing plant has been developed with a greenbelt area of 1 hectare (33.17%), The greenbelt has been developed along the plant boundary and open spaces Since there is insufficient land within the plant premises, **greenbelt development has also been undertaken in and around the site** with prior **SIPCOT permission**, utilizing **SIPCOT land & common land**. The total greenbelt development area, including both inside and outside the site premises, amounts to **6.2 acres (2.5 hectares)**, which represents **88.9%** of the total area. Thus, the combined greenbelt coverage (inside and outside) is **116.25%** (i.e., **88.9% + 33.33%**), exceeding the regulatory requirements.

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				Attached Undertaking with details of Green Belt development document in Annexure I
12.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.	Complied. The industrial planner take steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are take: ●Conducting awareness programs at regular intervals to the employees ●Providing safety kits and prevention kits ●Provision of Clinic at the plant site to handle emergency situations that	**Not Complied** The PP has not provided relevant documents during the site visit.	**Fully complied** As part of safety Audit Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents. Employees medical examination test report. **Attached M/s KSIL MOU WITH**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
		may arise. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for thr purpose of operation & Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.		**HOSPITAL & Employees medical examination test report document & training in Basic Life Support (BLS) in Annexure II Attached Photograph &document of Safety training program as in Annexure & Safety Audit report Annexure XI**
14.	The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.	We are implemented EMP mention in affidavit.	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
16.	The Project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh. nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.	Compiled The details of Environmental Clearance obtained have been published in 2 local Daily News papers. **Enclosed -11** **Page No.55**	Partly Complied It was observed from the documents submitted by the PP that the PP has informed the public that the project has been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and seen at Website of SEIAA, TN at parivesh.nic.in. Annexure - 1. No information was provided regarding the advertisement published within seven days from the date of issue of the clearance letter, however, the PP has published in two local newspaper that are widely circulated in the region of which one shall be in the	**Fully complied** We submitted along with Six monthly compliance reports of period October 2023 to March 2024 and Six monthly compliance reports of period April 2024 to September 2024 are submitted to the regional office to the Ministry along with acknowledgment and put on the website of the Company. **Attached details of Six monthly compliance reports submitted and screen short of uploaded document in website as Annexure XII**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
			vemacular language of the locality concerned. A copy of the same forwarded to the Regional Office of the MoEF at Bengaluru was not submitted.	

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
18.	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. **Copy of Form V – Annexure XI** **Page No.157**	Partly Complied It was observed from the documents submitted by the PP that the PP has submitted the Environmental Statement in Form V to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently Annexure - 1. The copy of the same was not put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.	**Fully complied** We are uploaded environmental statement for the financial year 2023-2024 in Form-V submitted to TNPCB in the company website that is www.kanishksteels.in **Attached screen short of uploaded environmental statement for the financial year 2023-2024 in Form-V in website as Annexure XIII**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
20.	Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied We have obtained CTE before starting the project and CTO obtain before operating the project.	Not Complied The PP has not submitted the relevant documents during the site visit.	**Fully Complied** We have obtained CTE before starting the project and CTO obtain before operating the project. Consent for Establishment is under Water Act obtained consent order Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022 and CTE for under Air Act obtained vide PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022 from TNPCB

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				Consent to Operate is obtained under Air (Prevention & Control of Pollution) Act,1981, PROCEEDINGS No.T1/TNPCB/F.0119 GMP/OL//GMP/A/2023, DATED: 08/12/2023 Consent to Operate is obtained under Water (Prevention & Control of Pollution) Act,1974, PROCEEDINGS No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023DATED:08/12/2023. **Project Activity**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
				Commencement on date 1/03/2024 **CTE and CTO Consent order under Water & Air Act is attached as Annexure XV**
21.	Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.	Agreed to comply We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
23.	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.	Agreed to comply.	**The PP agreed to Comply**	**Fully complied. Agreed to comply** Attached Agreed to complied letter as **Annexure XIV.**
24.	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.	Complied	**The PP agreed to Comply**	**Fully complied. Agreed to comply** Attached Agreed to complied letter as **Annexure XIV.**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
25.	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.	Agreed to Comply.	**The PP agreed to Comply**	**Fully complied. Agreed to comply** Attached Agreed to complied letter as **Annexure XIV..**
26.	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.	Agreed to Comply	**The PP agreed to Comply**	**Fully complied. Agreed to comply** Attached Agreed to complied letter as **Annexure XIV**

Sl. No.	Conditions	Status as per Six Monthly Compliance Report submitted by the PP on 18/11/2024	Observations of RO Chennai	Reply of RO observation
27.	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.	Agreed to Comply	**The PP agreed to Comply**	**Fully complied. Agreed to comply** Attached Agreed to complied letter as **Annexure XIV.**
28.	Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.	No appeal was made during the specified period.	**The PP agreed to Comply**	**Fully complied. Agreed to comply.** Attached Agreed to complied letter as **Annexure XIV**

ANNEXURES

LIST OF ANNEXURES - III

SI.NO.	ANNEXURES	DESCRIPTION
1	ANNEXURES I	UNDERTAKING LETTER AND DETAILS OF GREEN BELT DEVELOPMENT DOCUMENT
2	ANNEXURES II	M/S KSIL MOU WITH HOSPITAL & EMPLOYEES MEDICAL EXAMINATION TEST REPORT
3	ANNEXURES III	COPY OF THE LETTER SUBMITTED TO PRINCIPAL CHIEF CONSERVATORS OF FORESTS AND CHIEF WILDLIFE WARDEN ,CHENNAI AND UNDERTAKING LETTER AND NOC - WILD LIFE CLEARANCE
4	ANNEXURES IV	EMP IMPLEMENTATION SCHEDULE AND EMP COST AND BANK ACCOUNT WITH HEAD WISE EXPENSES STATEMENT OF THE INVESTMENT
5	ANNEXURES V	COPY OF HEALTH, SAFETY & ENVIRONMENTAL POLICY & BOARD RESOLUTION LETTER
6	ANNEXURES VI	RISK ASSESSMENT
7	ANNEXURES VII	ON-SITE EMERGENCY PLAN REPORT
8	ANNEXURES VIII	DISASTER MANAGEMENT PLAN & DONATION OF FUNDS DETAILS
9	ANNEXURES IX	VOC MONITORING TEST REPORT
10	ANNEXURES X	SOCIAL AUDIT REPROT
11	ANNEXURES XI	SAFETY AUDIT REPORT & PHOTOGRAPH & DOCUMENT OF SAFETY TRAINING PROGRAM
12	ANNEXURES XII	DETAILS OF SIX MONTHLY COMPLIANCE REPORTS SUBMITTED AND UPLOADED IN WEBSITE
13	ANNEXURES XIII	SCREEN SHORT OF UPLOADED ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-2024 IN FORM-V IN WEBSITE
14	ANNEXURES XIV	ATTACHED AGREED TO COMPLIED LETTER
15	ANNEXURES XV	TNPCB CERTIFICATE OF CTE -AIR & WATER AND CTO - AIR & WATER

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To **Date: 22/04/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on dated 13.02.2025.

3. Letter from MoEF&CC, IRO, No. F.No. EP/12.1/2024-25/SEIAA/98/TN/630 dated 21.04.2025

With reference to the above, we hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

SPECIFIC CONDITIONS:

SI.NO 17 : The Greenbelt area already developed within the project area shall be properly maintained.

SI.NO 19: The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme

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SI.NO 26 : The environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT / Hon'ble High Court of Madras.

SI.NO 27 : All the assurances given in EIA and EMP shall be adhered strictly

GENERAL CONDITIONS

SI.NO 1: The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.

SI.NO 2 : No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB.

SI.NO 14: The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.

SI.NO 21: Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.

SI.NO 23: The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.

SI.NO 24 : The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.

SI.NO 25 : Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.

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CIN : L27109TN1995PLC067863
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ISO 9001

SLNO 26 : In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.

SLNO 27 : The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.

SLNO 28: Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
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ISO 9001

ANNEXURE -I

UNDERTAKING LETTER AND DETAILS OF GREEN BELT DEVELOPMENT DOCUMENT

KANISHK STEEL INDUSTRIES LTD

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ISO 9001

To **Date: 22/04/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on dated 13.02.2025.

3. Letter from MoEF&CC, IRO, No. F.No. EP/12.1/2024-25/SEIAA/98/TN/630 dated 21.04.2025

With reference to the above reference letter regarding the requisition to submit the Action Taken Report/ Clarification and Undertaking towards the non/partial and agreed to comply compliance observed during the site visit of M/s Kanishk Steel Industries Limited at Plot No. B-27 (N, M & S), SIPCOT Industrial Complex, Gummidipoondi, Tiruvallur District.

We hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

STATUTORY COMPLIANCE:

SI.NO. I: The green belt developed should be more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Department.

SPECIFIC CONDITIONS

SI.NO 18: The green belt of 3 to 10 meter width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department

GENERAL CONDITIONS

SI.NO 10: Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least80%.

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
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GREENBELT DEVELOPMENT MAINTENANCE IN AND AROUND FACTORY

The existing plant has been developed with a greenbelt area of **1 hectare (33.17%)**, and an additional **1.005 hectares (33.33%)** is being developed as part of the proposed expansion project, thereby meeting the **CPCB greenbelt norms**. The greenbelt is maintained at the proposed plant, with native species planted in consultation with a horticulturist. It has been developed along the plant boundary and in designated open spaces.

KSIL currently maintains **256 trees** along the periphery of the existing plant. Additionally, **123 new trees** have recently been planted as part of the expansion, bringing the **total number of trees** at the project site to **379**.

Furthermore, greenbelt development initiatives have been undertaken **outside the project site** as part of our extended environmental efforts:

- **Forest trees** have been planted over **2.5 acres** at two locations within the **Gummidipoondi SIPCOT complex** (300 trees).
- **Tree plantation and maintenance** have been carried out at **Triveni Alloys Limited**, with **400 trees** planted across **1.7 acres**, located approximately **0.025 km** from the KSIL site, opposite the factory premises.
- A **green cover initiative** was also implemented at **Kilpauk Water Works, Chennai**, where **245 trees** were planted across **2 acres**, as permitted.

These initiatives reflect KSIL's commitment to enhancing green cover and promoting environmental sustainability. **Replantation activities** are carried out wherever necessary to maintain the required **33.33% greenbelt** coverage. Additionally, **artificial bird habitats** have been provided to support local avian species.

Since there is insufficient land within the plant premises, **greenbelt development has also been undertaken in and around the site** with prior **SIPCOT permission**, utilizing **SIPCOT land & common land**. The total greenbelt development area, including both inside and outside the site premises, amounts to **6.2 acres (2.5 hectares)**, which represents **88.9%** of the total area. Thus, the combined greenbelt coverage (inside and outside) is **116.25%** (i.e., **88.9% + 33.33%**), exceeding the regulatory requirements.

The details and numbers of trees in the existing plant are listed in Table - 1. The photographs of the existing greenbelt are shown in Figure – 1.

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E-mail : sales@kanishksteels.in

ISO 9001

Table 1: DETAILS OF TREES IN THE EXISTING PLANT

Sr. No.	Name of the Trees	Numbers of Trees
1	Banyan Tree	2
2	Mast Tree	12
3	Neem Tree	2
4	Mango Tree	4
5	Tamarind Tree	2
6	Ficus Religiosa Tree	9
7	Coconut Tree	9
8	Teakwood Tree	27
9	Almond Tree	9
10	Palm Tree	4
11	Guava Tree	1
12	Andrographic Paniculata Tree	10
13	Portia Tree	5
14	Pungai Tree	10
15	Mahogary	120
16	Badam Tree	5
17	Other Trees	25
18	New Trees Planted	123
	Total	**379**

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CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001






EXISITNG TREE PLANTING AT KSIL

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001





NEW TREE PLANTING AT KSIL

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001







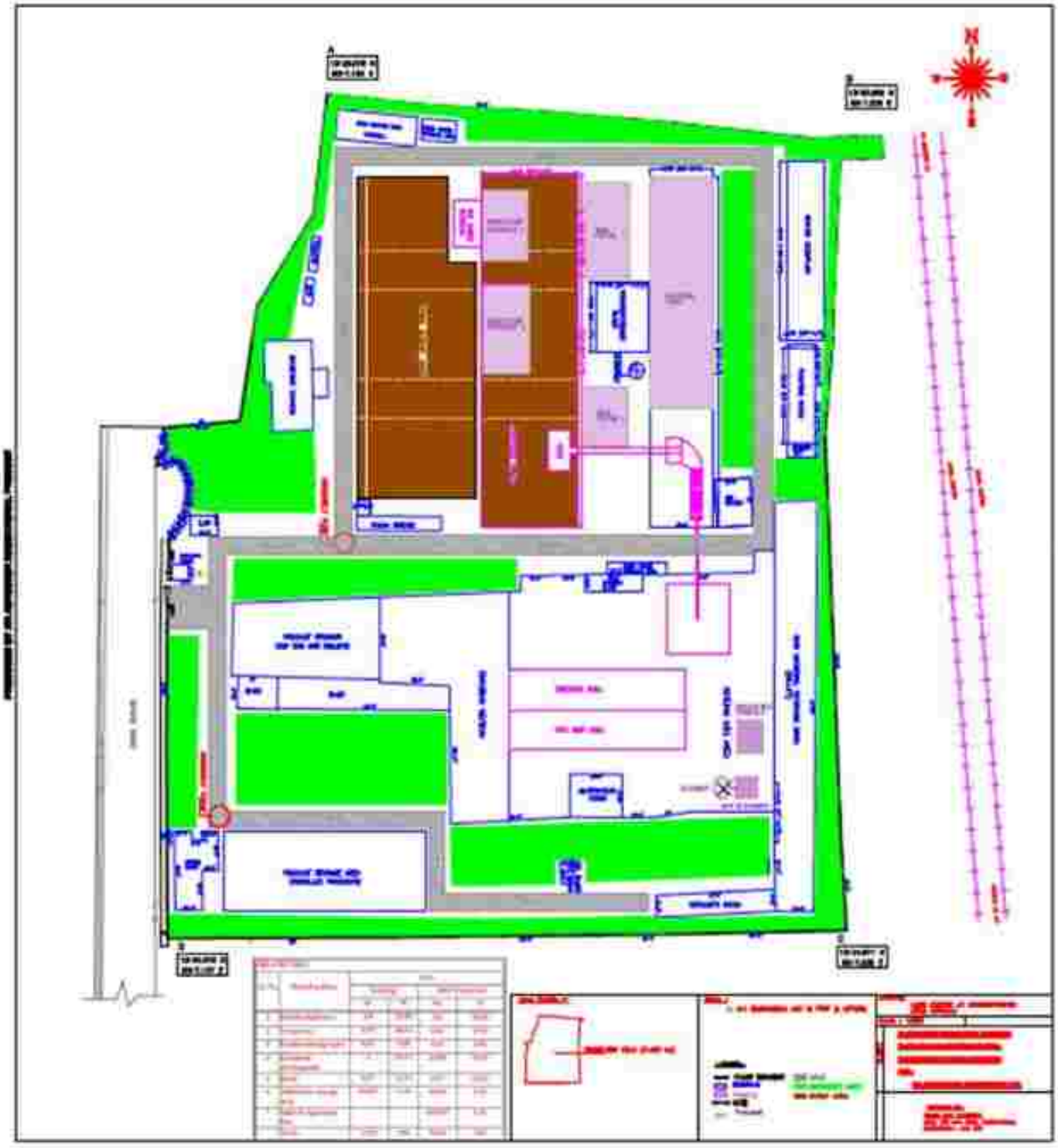


EXISITNG TREE PLANTING MAINTANANCE ATTRIVENI ALLOYS,GUMMIDIPOONDI BY KSIL

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

KSIL GREEN BELTLAYOUT PLAN



Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

TRIVENI ALLOYS LIMITED

A-14 & B-71, Sipcot Industrial Complex
GUMMIDIPOONDI - 601 201

To

Date: 4, Oct. 2017

M/s Karishk Steel Industries Ltd.,
B 27 (M), SIPCOT Industrial Complex,
Gummidipoondi 601 201.

Dear Sirs,

We hereby allot you around 2 acres at our premises towards the northern side for your Plantation works.

The plantation area will have to be segregated by proper fencing, fencing by yourselves.

The maintenance of the plants, watering, cleaning, growth etc., will have to be managed by your own people.

Thanking you,

Yours faithfully,
For Triveni Alloys Limited,

Authorised Signatory.

for KARISHK STEEL INDUSTRIES LTD.

Authorised Signatory

STATE INDUSTRIES PROMOTION CORPORATION OF TAMILNADU LIMITED
(A GOVT. OF TAMILNADU UNDERTAKING)
SIPCOT INDUSTRIAL COMPLEX
PROJECT OFFICE, GUMMIDIPOONDI – 601 201.

Telephone: 044-27922355
Tele Fax : 044-27922242
Email: pmsipcotgpd@gmail.com
CIN .U74999TN1971SGC005967

Lr.No.PO/SIC/GPD/Misc/2019 **dt: 02.05.2019**

To.
M/s. Kanishk Steel Industries Ltd.,
SIPCOT Industrial Complex,
Gummidipoondi – 601201.

Sir,

Sub: SIPCOT Industrial Complex, Gummidipoondi – Tree plantation and maintenance – reg.

Ref: Your letter dated: 24.04.2019

****

With reference to the letter cited, you have planted the avenue plants in A.O.Block premises to an extent of about 1.50acres and infront of the OSR-8 abutting main road to an extent of about 1.00acres (200nos.+100nos. = 300nos.) during October'2018 and being maintained the same till now.

Hence, it is informed that, you are requested to maintain the trees to the above said location further one years.

Kindly acknowledge, the letter receipt of this letter.

Yours faithfully,

PROJECT OFFICER
SIPCOT. GUMMIDIPOONDI

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 900

Date:- 24.04.2019

To

The Project Manager,
Sipcot Industrial Complex,
Gummidipoondi-601201.

Dear Sir,

Sub:- Tree Plantation.

We have planted forest trees on about 2.5 Acrs of land (2 places) at sipcot complex and are maintaining the same on a daily basis.This was done at the behest of TNPCB complex greening project.

We request you to please issue as a letter/certificate for our records.

Thanking you,

Yours Faithfully,

For KANISHK STEEL INDUSTRIES LIMITED.

Director.

25/4/2019
AE/SIPCOT/GPD.

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

Ph : 25552261(G)

CASH BILL

Mob : 9444052261
9952992182

ஜீவா நர்சரி கார்டன்

950

JEEVA NURSERY GARDEN

No : 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051.(M.M.C Post)
Near Parvathi Nagar Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s. [illegible] கிரீன்ஹவுஸ்

Bill No. :

Date. 11/11/17

S.No.	Particulars	Qty	Rate	Amount	
1	100 [illegible]	400	80	32,000	∞
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
	Total			32,000	∞

For Jeeva Nursery Garden

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date:20/09/2018

To

The Managing Director,
Chennai Metro Water Supply & Sewarage Board,
Chintadripet,
Chennai .

Respected Madam,

Sub: Tree plantation at your Kilpauk Site.

We are planning to plant trees under urban afforestation from our CSR activities and are requesting your goodselves to permit us to plant trees on around 2acres at your Kilpauk Water Works site. We shall be glad to provide any help necessary towards the same. Requesting your guidance and kind permission.

Thanking You,

Yours Faithfully

For KANISHK STEEL INDUSTRIES LTD.,

Director.

Copy To

1). The Executive Engineer,
Chennai Metro Water Supply & Sewarage Board,
Kilpauk Water Works,
Chennai .

24 SEP 2018

2). The Member Secretary,
Tamilnadu Pollution Control Board,
Guindy – Chennai.

3). The Joint Chief Environmental Engineer (M),
Tamilnadu Pollution Control Board,
Arumbakkam – Chennai.

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

Mylapore, Chennai - 4 Ph: [illegible]
Door No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,

CASH BILL

Mob. 94440 52261
99529 92182

ஜீவா நர்சரி கார்டன்

JEEVA NURSERY GARDEN

No. 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051. (M.M.C. Post)
Near Parvathi Nagar, Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s.....

Bill No. : 287

Date. 13/10/18

S.No.	Particulars	Qty	Rate	Amount
1.	[illegible]	15	55	825 00
2.	[illegible]	5	100	500 00
3.	[illegible]	5	10	50 00
4.	[illegible]	5	120	600 00
5.	[illegible]	5	100	500 00
6.	[illegible]	5	100	500 00
7.	[illegible]	5	100	500 00
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.	3,475/-			
21.				
22.				
23.				
24.				
25.				
	Total			3475 00

For Jeeva Nursery Garden

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Compl
Ph : (044) 2792 21[illegible]

CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No. 1, Pumping Station Road, Chintadripet, Chennai-600 002

Executive Engineer
Regional Office-I

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s. Kanishk Steel Industries ltd. Gummidipoondi, Thiruvallur – 601 201 has been done Green Coverage at Kilpauk water works, Chennai – 10 for an area of 2 acres on sponsorship to Metro water.

Executive Engineer/RO-I

CASH BILL

Mob. 94440 52261
99529 92182

ஜீவா நர்சரி கார்டன்

JEEVA NURSERY GARDEN

No. 1, Kalasathamman Koil Street, Selavoyal, Chennai - 600 051. (M.M.C. Post)
Near Parvathi Nagar, Bus Stop, Mail : jeevanurserygarden@gmail.com

M/s. ரவிச் T.M.T

Bill No. : 286

Date. 10/10/18

S.No.	Particulars	Qty	Rate	Amount
1.	[illegible]	210	50	10500 00
2.	[illegible] Seetha Jul.	5	100	500 00
3.	[illegible] Drum	10	10	100 00
4.	[illegible] Amla	5	100	500 00
6.	[illegible] Mango	5	120	600 00
7.	[illegible] Jack	5	100	500 00
8.	[illegible] Guava	5	60	300 00
19.	12,000 /			
	Total			13000 00

For Jeeva Nursery Garden

M/S KSIL MOU WITH HOSPITAL

AND

EMPLOYEES MEDICAL EXAMINATIONTEST REPORT

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

MEMORANDUM OF UNDERSTANDING

A Memorandum of Understanding was made on **1ST JANUARY, 2023** at Chennai, Tamil Nadu.

BETWEEN

"HNX Healthcare Pvt Ltd" hereinafter referred to as **"HNX Healthcare"** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"HNX Healthcare Pvt Ltd"**

AND

"KANISHK STEEL INDUSTRIES LTD" has its office at NO 8-27 M & N Sipcot Industrial Complex, Gummidipoondi – 601201 (Formely OP STEEL LIMITED, NO 8-27 M Sipcot Industrial Complex, Gummidipoondi-601201), Tamil Nadu, India, hereinafter referred to as **"KANISHK STEEL"** which expression shall unless it be repugnant to the context or meaning thereof be deemed to mean and include its assessors and assigns of **"KANISHK STEEL"**.

Whereas, **"KANISHK STEEL"** has had a mutual discussion for the purpose of Operation & Maintenance of Health Checkup and OPD / IP facilities for their existing & retired employees and to their dependents.

HNX Healthcare Pvt Ltd have agreed to provide Operation & Maintenance of Health Checkup and OPD/IP for their existing & retired employees and to their dependents visiting the Hospital at the below mentioned addresses:

ALPHA HOSPITALS GUMMIDIPOONDI	**340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201**

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Both the parties do hereby agree as follows:

This MOU is valid for **2 (Two)** years from **1ST JANUARY, 2023**

1. **HNX Healthcare** agrees to provide health checkups/ Pre employment health checks and all diagnostic treatments, consultants and other procedures for OP visits / IP and during emergencies to the employees of "KANISHK STEEL REFINERIES" (Existing & Retired employees and their dependents).

   As a Privileged member "**KANISHK STEEL**", associates and family members can avail the following benefits at **ALPHA Hospitals** by displaying their ID & letter from concerned authority.

   - In Patient 10% discount (Excluding cost of medicines, implants, consumables).
   - IP discount is not applicable during health insurance covering patient treatment expenses.
   - During outpatient treatment 10% discount will be given on investigations and consultations.
   - HNX Healthcare will provide half yearly health check-up camps and quarterly Health awareness talks for free of cost in a year and also conducts paid camps as many as the corporate requirements.
   - Ambulance services will be provided at free of cost for IP admission patients within Chennai limits.
   - Home-care services will be provided along with doctor and nurse based on the emergency need along with medicines at the patient place itself with special consideration will be on confirmation letter from the company stating to provide for the consent employee or retired person.
   - Health checkup packages / rates will be charged by HNX Healthcare as agreed, mentioned in the annexure-1

2. The employee will produce a letter from authority & employee ID card, at the time of admission applicable if the payment is done by "**KANISHK STEEL**".

3. In case of emergency/ accident/ serious illness, the employee can be admitted to the hospital on producing his identity card / mediclaim card, in such case we will extend necessary medical facilities and intimate you within 24hours. **"KANISHK STEEL"**, will respond immediately and mail the letter of treatment approval advise
4. HNX Healthcare will submit the hospital bill within 7 days attested by the hospital authority if the payment is made by **"KANISHK STEEL"** the payment will be cleared within 30 days through NEFT Payment.
5. HNX Healthcare will give Treatment to **"KANISHK STEEL"** existing & retired employees and their dependents, based on Cash basis or Credit basis, On submission of Authorization letter / Mail issued by the Company in favor of the employee.
6. One point of contact needed from the **"KANISHK STEEL"** for any emergency to be reported to ALPHA HOSPITALS, who will be trained by us for the first aid management and intimating to the hospital regarding the emergency, based on emergency requirement ambulance will be sent to receive the patient for further management.
7. Referral procedure
   "KANISHK STEEL"- Alpha Hospital - Secondary/ Tertiary care

Time duration: 45 - 50 mins MAX, they patient will get admitted in higher center after getting stabilized in Alpha Hopsitals

Governing Law, Dispute Resolution & Jurisdiction

a) This Agreement shall be governed by the Laws of India.

b) The agreement may be terminated by any of the parties by giving one month prior written notice to the other party.

c) In the event that the representatives of each Party fail to resolve the dispute, either Party shall be free to approach the Courts for resolution of the dispute.

d) The Courts of Chennai, Tamil Nadu shall have exclusive jurisdiction over any disputes arising out of this Agreement.

The parties have caused this MOU to be executed by their respective duly authorized representatives.

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

MR. ASHOK KUMAR BOHRA
Director & GM
KANISHK STEEL INDUSTRIES LTD
Authorized Signatory

Dr. GIRISH DEVANADAN. P
Medical Director
HNX Healthcare Pvt Ltd
Authorized Signatory

MR. BALA GOVIND. S
Chief Operating Officer
Alpha Hospital
Authorized Signatory

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX

ALPHA HOSPITAL

Annexure-1

Whole Body Health Checkup Details - Male- Rs 3999/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HbA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL / HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

ALPHA HOSPITAL 1623

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 801201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Per Rectal Examination (For Men)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Reticulocyte Count
PSA for Men
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Whole Body Health Checkup Details - Female - Rs 4499/-

Hematology
Hemoglobin
Red Blood cell count(RBC)
Total Count
Differential Count
Peripheral Smear
ESR
Platelet Count
Diabetes Assessment
Blood Sugar Fasting
HBA1c
Lipid Profile
Total Cholesterol
HDL
LDL
VLDL
Triglycerides
Total Cholesterol / HDL Ratio
LDL HDL Ratio
Liver Function Test
Total Protein, Albumin, Globulin
A / G Ratio
Alkaline Phosphotase
SGPT
SGOT
GGTP
Bilirubin - Total & Indirect
Kidney Assessment
Serum Urea
Serum Creatinine
Serum Uric Acid

LPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Cardiac Assessment
ECHO
Treat Mill Test
PFT (Pulmonory Function Test)
General Test
Complete Urine Analysis
Stool Examination
ECG (Resting)
X-Ray Chest
Ultrasound Abdomen Scan
Pap Smear (for Woman)
Serum Calcium &phosphorus & S.Electrolytes
HbsAg
Mammogram for Women
Reticulocyte Count
Ultrasound of Breast for woman if required
Breakfast
Clinical Opinion
Physicians Consultation
Speciality Dr. Consultation (as required)

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pre- Employment Health checkup - Rs 1400 /-
1 E.C.G
2 X-Ray Chest
3. Blood Tests
Complete Haemogram (which includes RBC Count, Hemoglobin, Total WBC Count, ESR, Packed Cell Volume, Differential Count)
Blood Sugar Fasting
Blood Grouping & RH Type
Urea, Creatinine
Cholesterol
Urine Routine
4. Ophthalmic Examination
5 ENT Examination (With Audiometry Test)
6 Spirometry
7 General Examination

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

HNX
HEALTHCARE PVT LTD

AUTHORIZED SIGNATURE

ALPHA HOSPITAL

Annexure :2

Locations details:

ALPHA HOSPITALS GUMMIDIPOONDI	340/2 A, RAJU COMPLEX, PAPPAN KUPPAM VILLAGE OPP MITSUBA GUMMIDIPOONDI 601201



HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Annexure: 3

Hospital Contacts:

Contact Person for all Appointments/ Enquiry:

1. Dr Vinod Babu / 7277723456
(Chief Executive Officer)
Timing: 24/7

2. Mr. NITIN PRASAD / 9790850909
(DGM - Corp. Relations)
Timing (9am – 6pm)



Health and Safety:

Health:

The company is dedicated to ensuring the safety and well-being of all its employees, both technical and non-technical. To this end, safety equipment including helmets, safety shoes, hand gloves, goggles, and face masks are provided regularly. It ensures that all workers entering the work area are properly equipped to handle the tasks at hand, reducing the risk of injury or accidents. The company takes this responsibility seriously, regularly inspecting and updating safety gear to comply with industry standards. By providing these essential protective items, the company not only complies with occupational safety regulations but also fosters a culture of safety and awareness among its employees.

Agreement with M/s. HNX Healthcare Private Limited:

KSIL places a high priority on the health and safety of its employees by partnering with nearby medical facilities, specifically M/s. HNX Healthcare Private Limited, to provide operation and maintenance of health checkups and OPD/IP services for both current and retired employees and their dependents at ALPHA Hospital, located at 3402 A, Raju Complex, Pappankuppam Village, Opp. MITSUBA, Gummidipoondi, which operates as a 24-hour facility.

This partnership ensures that employees have immediate access to professional medical care in case of health emergencies. Regular medical check-ups are conducted every fortnight for all laborers and staff, facilitating the early detection and treatment of any health issues. Additionally, the factory premises are equipped with a treatment room that includes beds and oxygen facilities to address immediate medical needs.

Benefits:

- In-Patient Services: A 10% discount is offered, excluding medicines, implants, and consumables. However, this discount is not applicable if the patient's treatment expenses are covered by health insurance.
- Out-Patient Services: A 10% discount is provided on investigations and consultations.
- Health Camps and Awareness: Half-yearly health check-up camps and quarterly health awareness talks on topics such as personal hygiene, HIV/AIDS, and COVID-19 are provided free of charge.

- Ambulance Services: Free ambulance services are available for in-patient admissions within Chennai limits.
- Home Care Services: Home care services, including a doctor and nurse along with necessary medicines, will be provided based on emergency needs. Special consideration is given when KSIL issues a confirmation letter for the employee or retired person requiring care.
- Health Checkup Packages: Health checkup packages are priced at Rs. 3999 for male employees and Rs. 4499 for female employees, as agreed with HNX Healthcare.
- Documentation: Employees must present an authority letter and employee ID card to avail of the benefits.
- Payment:All payments are made by Kanishk Steel.

Furthermore, Alpha Hospital has provided training in Basic Life Support (BLS). Senior officials of KSIL participated in First Aid Training – Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference.


ALPHA HOSPITAL

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

Sigamani T


ALPHA HOSPITAL

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

K V Babu



KSIL has also arranged for a Medical Officer to provide periodic health services. The Medical Officer visits the industry fortnightly, offering healthcare services to the employees.





In addition to the above arrangements, KSIL is committed to ensuring the health and safety of its employees by establishing a treatment center within the industry premises. The center is equipped with an emergency medical kit, first aid supplies, medicines, and a resting bed, all as recommended by the Medical Officer.



Figure 1: Treatment Center at KSIL

The management has implemented a system for health monitoring by providing a Master Medical Health Check-up every six months in collaboration with Alpha Hospital, Gummidippondi.

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pure-tone audiogram

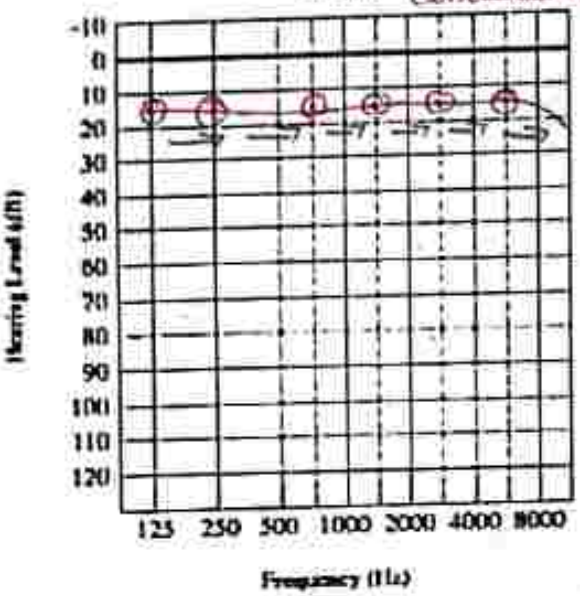
Name: MY. Andavam

Date: 18/01/2023

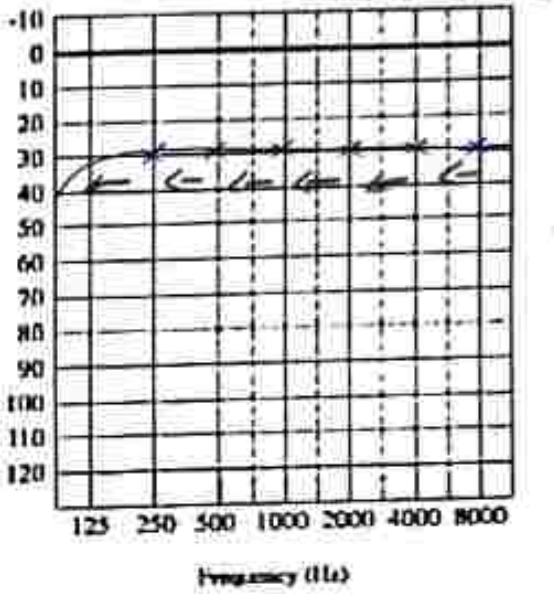
Date of birth: 15/03/1977

Case No: 01

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: 1

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name- Mr Andaram

Date – 18/01/2023

Age/Sex-46/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage, Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA
SADAYAN KUPPAM VILLAGE
THIRUVOTTIYUR 601 201

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 01
2. Department/Work :
3. Name of the worker : Mr. Anclaram
4. Age : 46
5. Sex : Male
6. Date of Examination :
   Vision — Rt eye - 6/6 } Both eyes extremely normal
   Lt eye - 6/6 }
7. Results : a) ISHIHARA CHARTS :
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN :
   Identifies Red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colourvision normal

ALPHA

HNX
HEALTHCARE PVT LTD

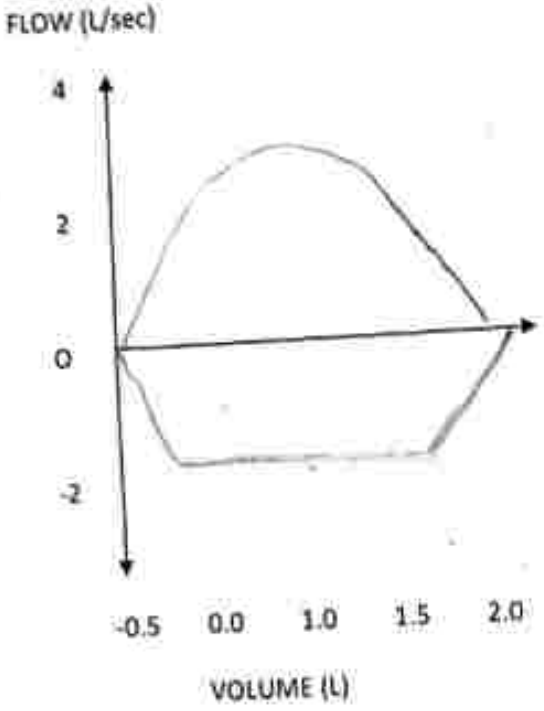
ALPHA HOSPITAL

NAME : Mr. Adavam

AGE/SEX : 46 / male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
88%	90%	101%	97%	87%	85 %



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

ID : 2304220025
Name: MT. Andaram
Sex : Male
Divisions:

DataTime: 2023-04-22 15:40
Age : 46
BP : mmHg
Bed No. :

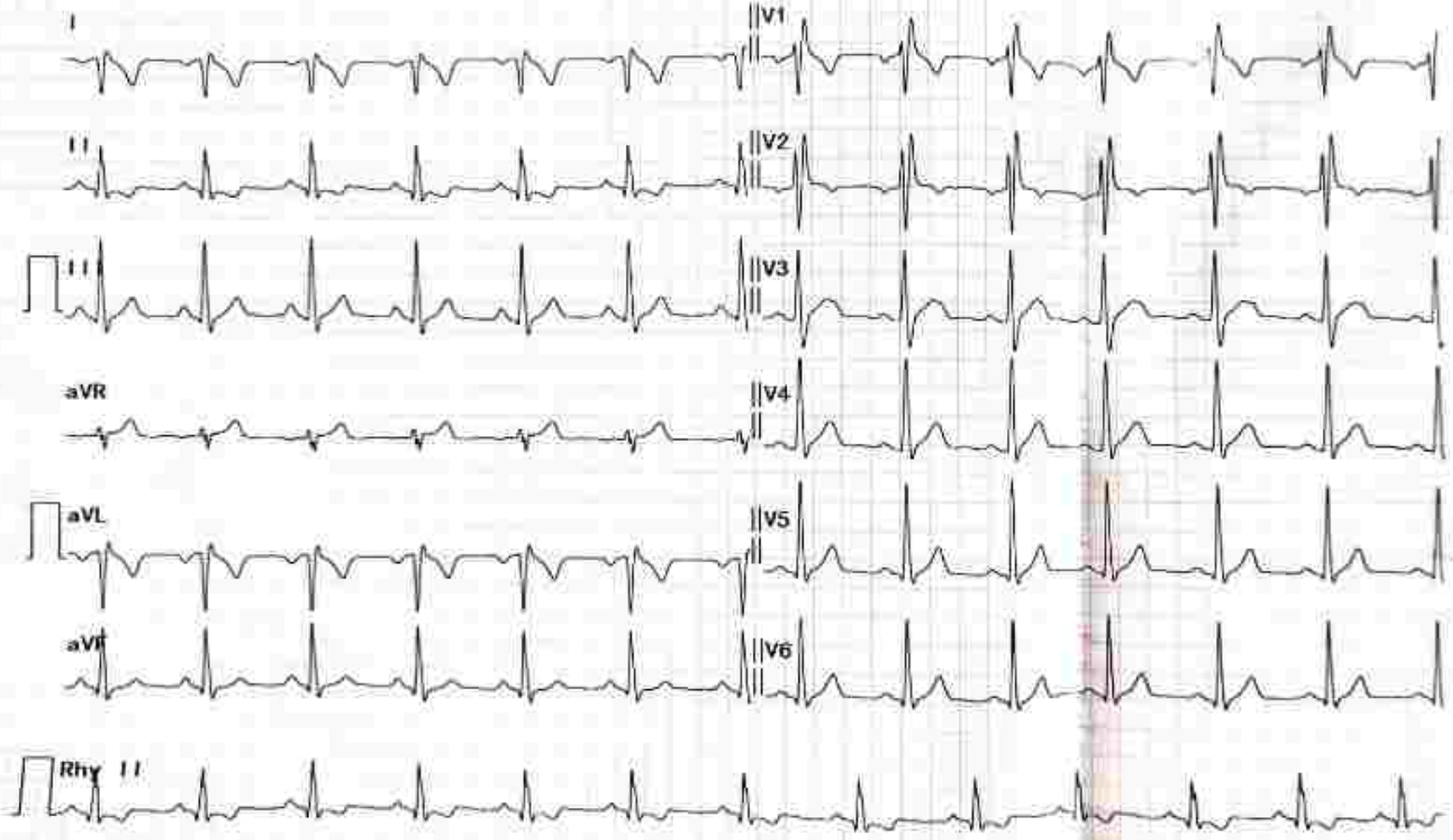
Height : cm
Weight : kg
Hospital No. :

HR 76 bpm
P Dur/PR int 111/159ms
QRS Dur 134ms
QT/QTC int 325/372 ms
P/QRS/T axis 110/131/139

RV5/SV1 amp 1.666/0.710mV
RV5+SV1 amp 2.376mV
RV6/SV2 amp 1.465/0.798mV

Minnesota Code
7-4-0
1-1-1(V2)
1-3-1(II)
4-3-1(V2)
4-1-0(I,aVL)

Diagnosis Info
800: Sinus Rhythm
502: IVCD(Intraventricular Conduction Block)
731: Suspect Anterior Infarction?(V2)
633: ST-T Abnormality(I,aVL)
204: Marked Right Axis Deviation



Diagnosis for reference. ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

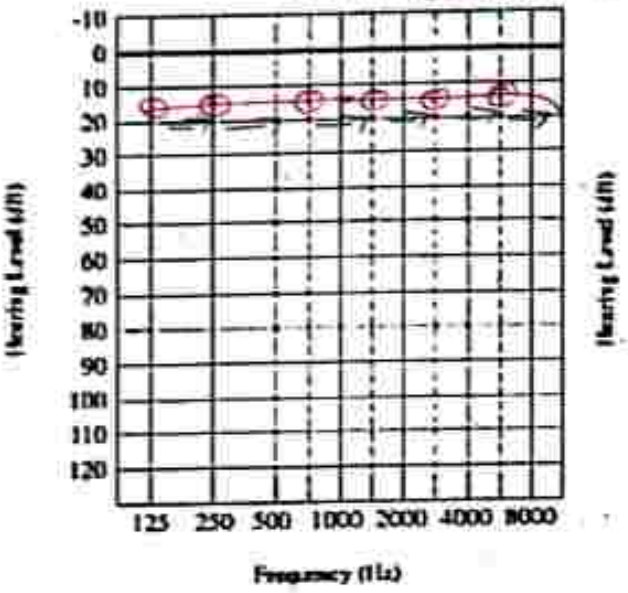
ALPHA HOSPITAL

Pure-tone audiogram

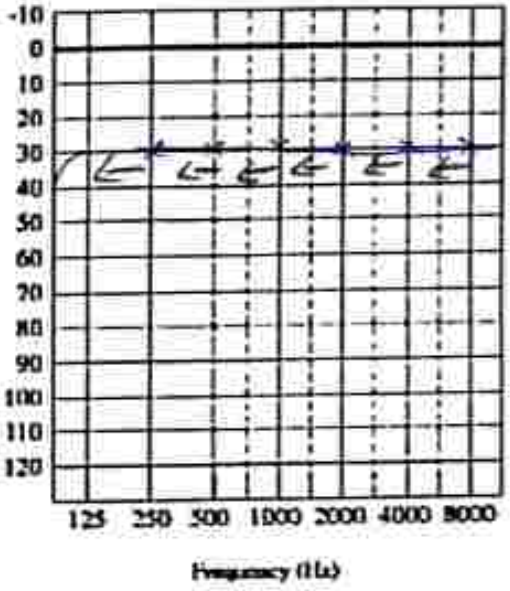
Name: MY. Shiv kumar singh **Date:** 18/01/2023

Date of birth: 01/01/1977 **Case No:** 08

RIGHT Air and bone Conduction



LEFT



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing Sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Sivakumar singh

Date – 18/01/2023

Age/Sex-46/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HOSPITAL
340 2A RAJU COMPLEX
BYPASS ROAD
VADIVEL M VILLAGE
SUMMIRAMPUNDI 601 201.

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 08
2. Department/Work :
3. Name of the worker : MR. Shiv Kumar Singh
4. Age : 46
5. Sex : Male
6. Date of Examination :
   Vision < Rt eye - 6/6 } Both eyes Extremely normal
   < Lt eye - 6/6 }
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN :
   Identifies Red / Green / Yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

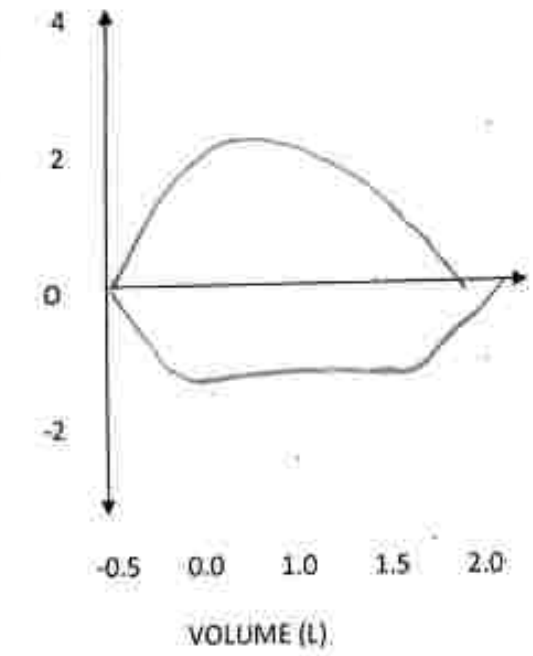
ALPHA HOSPITAL

NAME : Mr. Shiv Kumar Singh

AGE/SEX : 46 / male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80%	87%	100%	91%	95%	98%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220024
Name: Mr. Shiv kumar Singh
Sex : Male
Divisions:

DataTime: 2023-04-22 15:39
Age : 46
BP : mmHg
Bed No. :

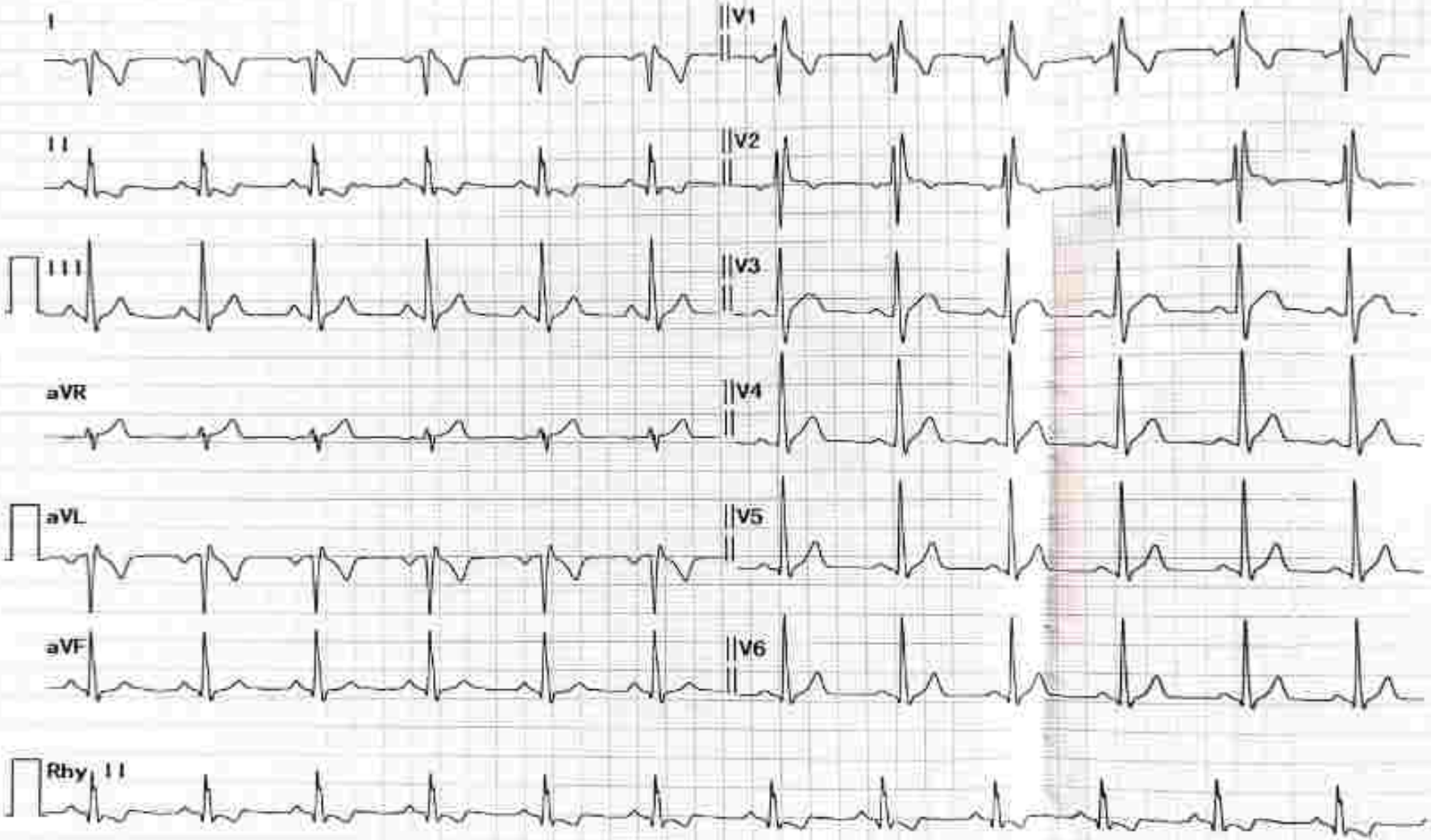
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	76 bpm
P Dur/PR int	104/156ms
QRS Dur	114ms
QT/QTC int	335/375 ms
P/QRS/T axis	118/123/156 °

RV5/SV1 amp	1.666/0.715mV
RV5+SV1 amp	2.381mV
RV6/SV2 amp	1.465/0.766mV

Minnesota Code
1-1-1(I)
1-3-1(II)
4-2-0(I, II, aVL)
5-1-0(I)
5-2-1(II)

Diagnosis Info
800: Sinus Rhythm
732: Suspect Lateral Infarction?(I)
633: ST-T Abnormality(I, II)
204: Marked Right Axis Deviation



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

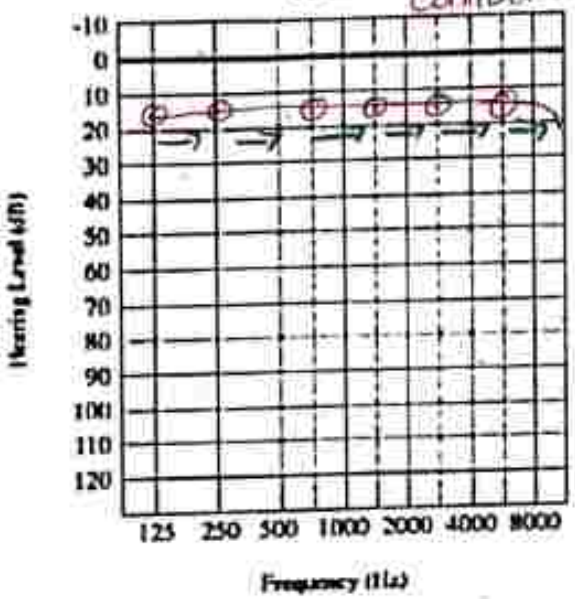
ALPHA HOSPITAL

Pure-tone audiogram

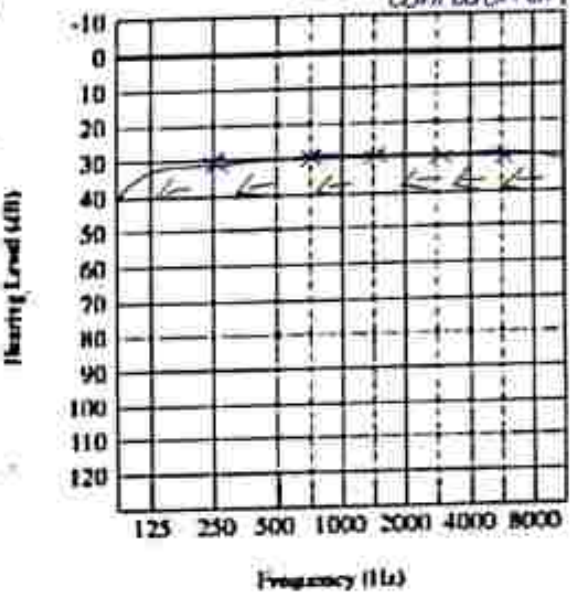
Name: MR. Achelal yadav **Date:** 18/01/2023

Date of birth: 01/01/1979 **Case No:** 03

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌟

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr Achelal yadav

Date – 18/01/2023

Age/Sex-44/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

ALPHA HOSPITAL

From

To

ALPHA HOSPITAL

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 03
2. Department/Work :
3. Name of the worker : Mr. Achelal yadav
4. Age : 44
5. Sex : Male
6. Date of Examination :
   Vision (Rt eye - 6/6) Both eyes Extremely normal
   (Lt eye - 6/6)
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN:
   Identifies Red / Green / Yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

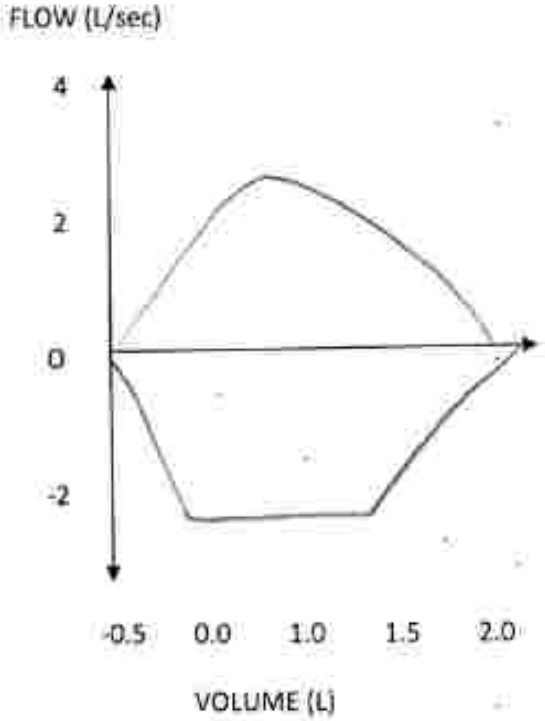
ALPHA HOSPITAL

NAME : Mr. ACHELAL YADAV

AGE/SEX : 44/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	86%	90%	96%	98%	102%



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220023
Name: MR. Achala yadav
Sex : Male
Divisions:

DataTime: 2023-04-22 [illegible]
Age : 44
BP : mmHg
Bed No. :

[illegible] HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	79 bpm
P Dur/PR int	106/156ms
QRS Dur	119ms
QT/QTC int	333/383 ms
P/QRS/T axis	118/126/155

RV5/SV1 amp 1.658/0.714mV
RV5+SV1 amp 2.372mV
RV6/SV2 amp 1.454/0.761mV

Minnesota Code
1-1-2(V1)
1-1-1(I)
1-3-1(II)
4-1-0(I)
4-2-0(II)

Diagnosis Info
800: Sinus Rhythm
151: Dextrocardia(Re-examination)?

I
II
III
aVR
aVL
aVF
V1
V2
V3
V4
V5
V6
Rhy II

Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 79bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

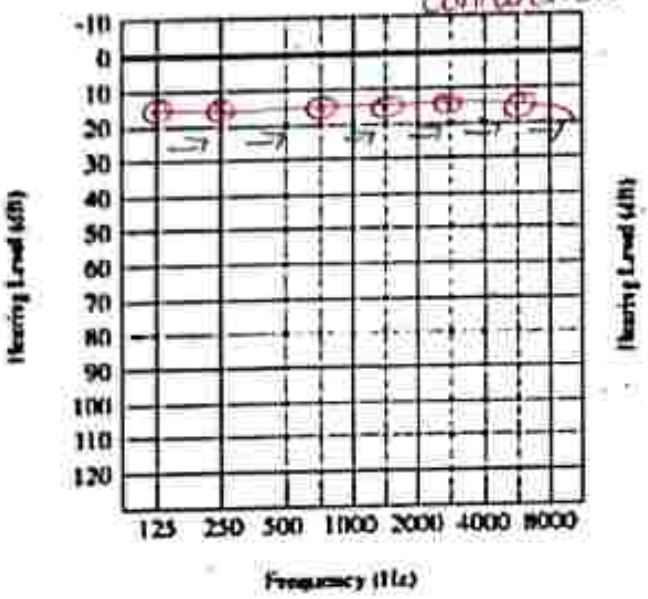
ALPHA HOSPITAL

Pure-tone audiogram

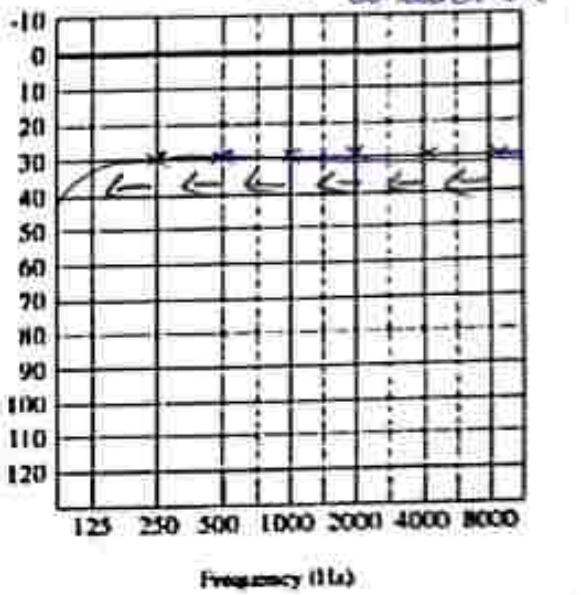
Name: MY. Ranjeet kumar **Date:** 18/01/2023

Date of birth: 01/01/1995 **Case No:** 04

RIGHT Air and bone conduction



LEFT Air and bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr Ranjeet kumar

Date – 18/01/2023

Age/Sex:28/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage, Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HOSPITAL
340 [illegible] COMPLEX
[illegible] ROAD
[illegible] VILLAGE
[illegible] 201

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 04
2. Department/Work :
3. Name of the worker : MY. Rageet kumar
4. Age : 28
5. Sex : Male
6. Date of Examination :
7. Results :
   Vision < Rt eye - 6/6 } Both eyes Extremely normal
   Lt eye - 6/6 }
   a) ISHIHARA CHARTS
   Identifies all chart correctly
   b) ELDERS GREEN LANTERN :
   Identifies red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

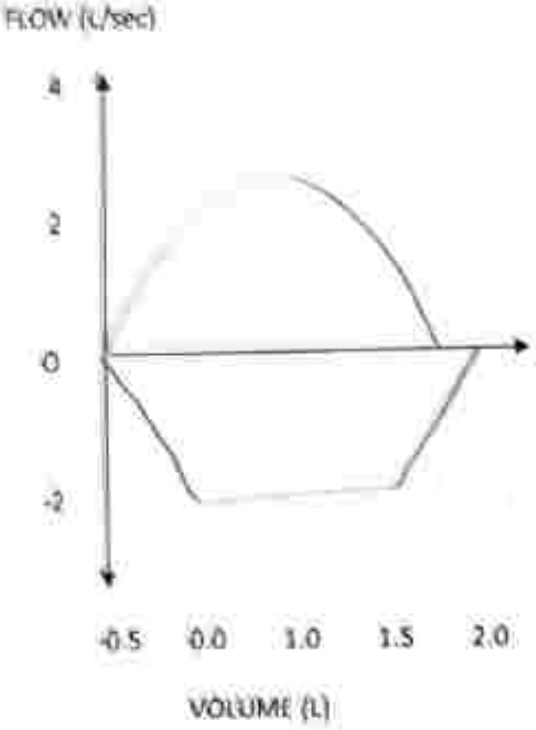
ALPHA HOSPITAL

NAME : Mr. Ranjeet Kumar

AGE/SEX : 28/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
88%	84%	88%	90%	90%	102%



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

ID : 2304220022
Name: MY. Ranjeet kumar
Sex : male
Divisions:

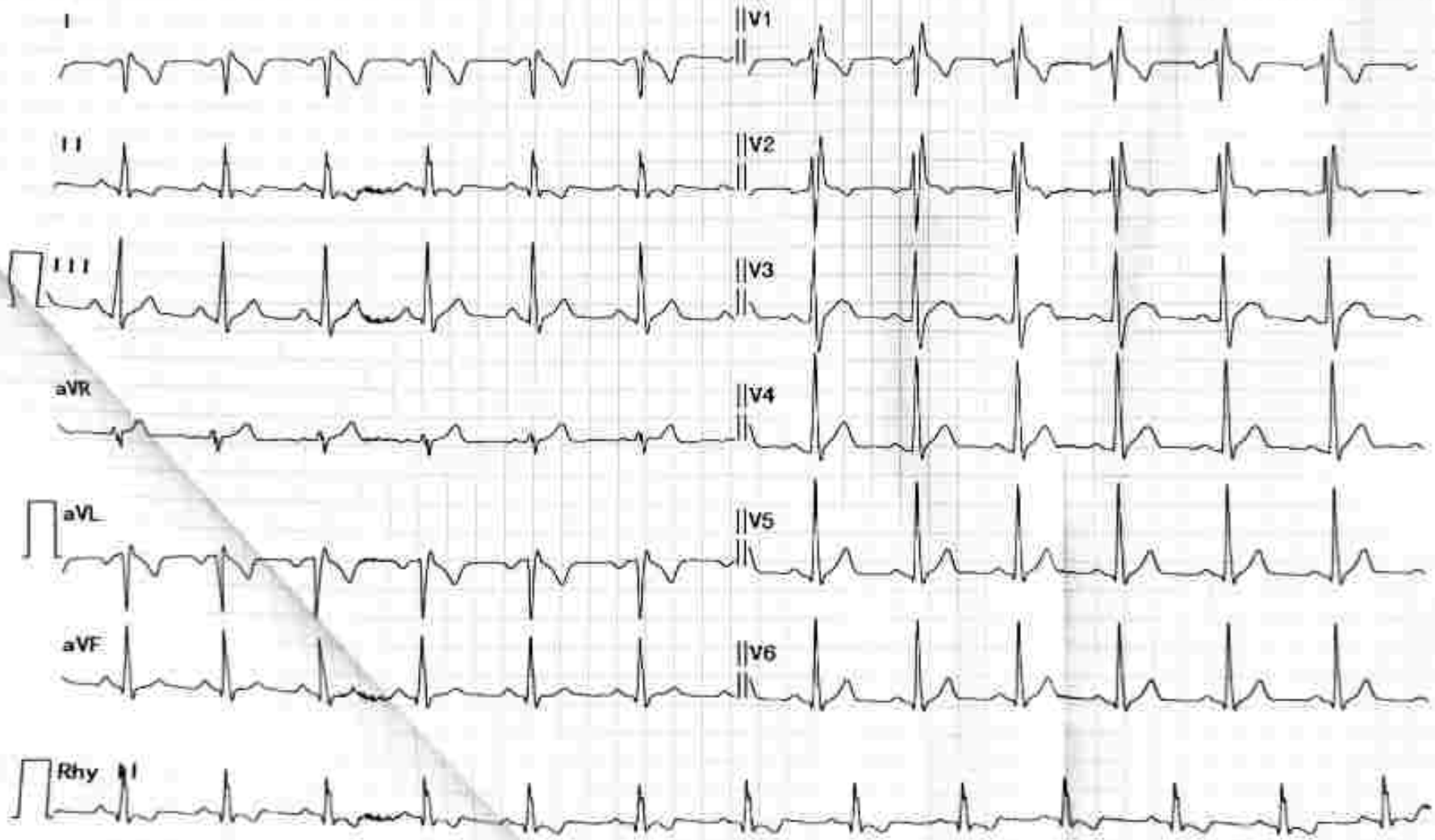
DataTime: 2023-04-22 15:37
Age : 28
BP : mmHg
Bed No.

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR	79 bpm	RV5/SV1 amp	1.677/0.744mV
P Dur/PR int	109/163ms	RV5+SV1 amp	2.421mV
QRS Dur	113ms	RV6/SV2 amp	1.462/0.873mV
QT QTC int	323/374 ms		
P/QRS/T axis	121/119/150 °		

Minnesota Code
1-1-1(I,V2)
1-3-1(II)
4-2-0(V1)
4-1-0(I,aVL)
4-3-1(II)

Diagnosis Info
800: Sinus Rhythm
731: Suspect Anterior Infarction?(V2)
732: Suspect Lateral Infarction?(I)
633: ST-T Abnormality(I,aVL)
203: Right Axis Deviation



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 79bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

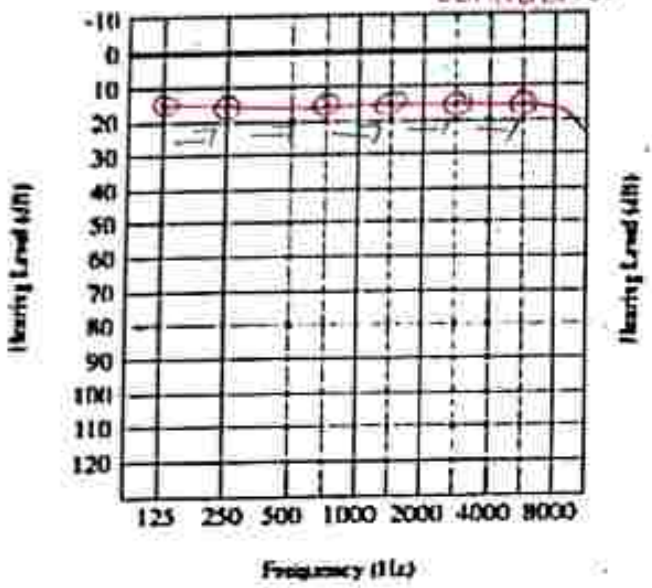
ALPHA HOSPITAL

Pure-tone audiogram

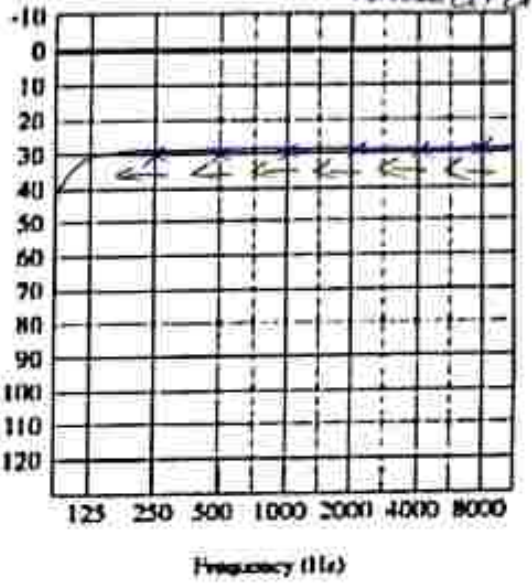
Name: MY. Ganesh prasad Behera **Date:** 18/01/2023

Date of birth: 18/06/1998 **Case No:** 05

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr Ganesh Prasad behera

Date – 18/01/2023

Age/Sex-30/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

ALPHA HOSPITAL

From

To

ALPHA HOSPITAL
340 [illegible] COMPLEX
[illegible] ROAD
MOHANLAL SUKHADIA NAGAR
[illegible]

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 05
2. Department/Work :
3. Name of the worker : MR. Ganesh prasad behera
4. Age : 30
5. Sex : male
6. Date of Examination :
7. Results : vision < Rt eye - 6/6 } both eyes extremely normal
   Lt eye - 6/6 }
   a) ISHIHARA CHARTS
   Identified all chart correctly
   b) FIDERS GREEN LANTERN.
   Identifies Red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : vision and colour vision normal

ALPHA [illegible]

HNX
HEALTHCARE PVT LTD

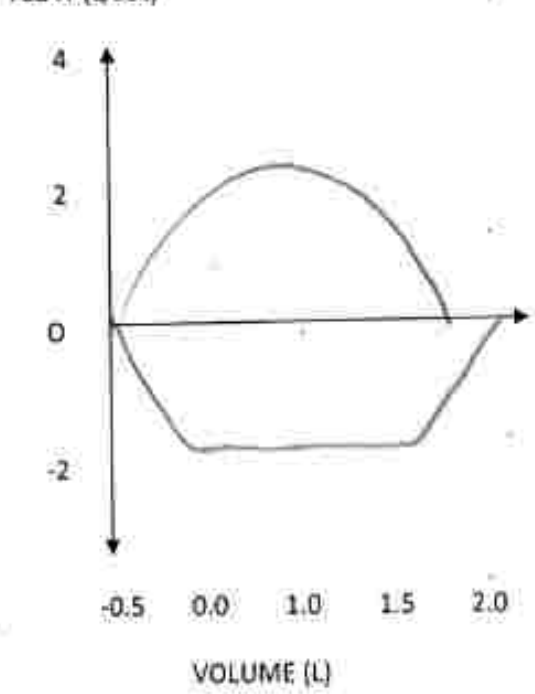
ALPHA HOSPITAL

NAME : Mr. Ganesh prasad Behera

AGE/SEX : 30/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
84 %	86 %	88 %	90 %	92 %	100 %



Tester Signature

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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV
Contact : 8925414999

ALPHA HOSPITAL

ID : 2304220021
Name: MT. Ganesh Prasad Behera
Sex : Male
Divisions:

DataTime: 2023-04-22 15:36
Age : 30
BP : mmHg
Bed No. :

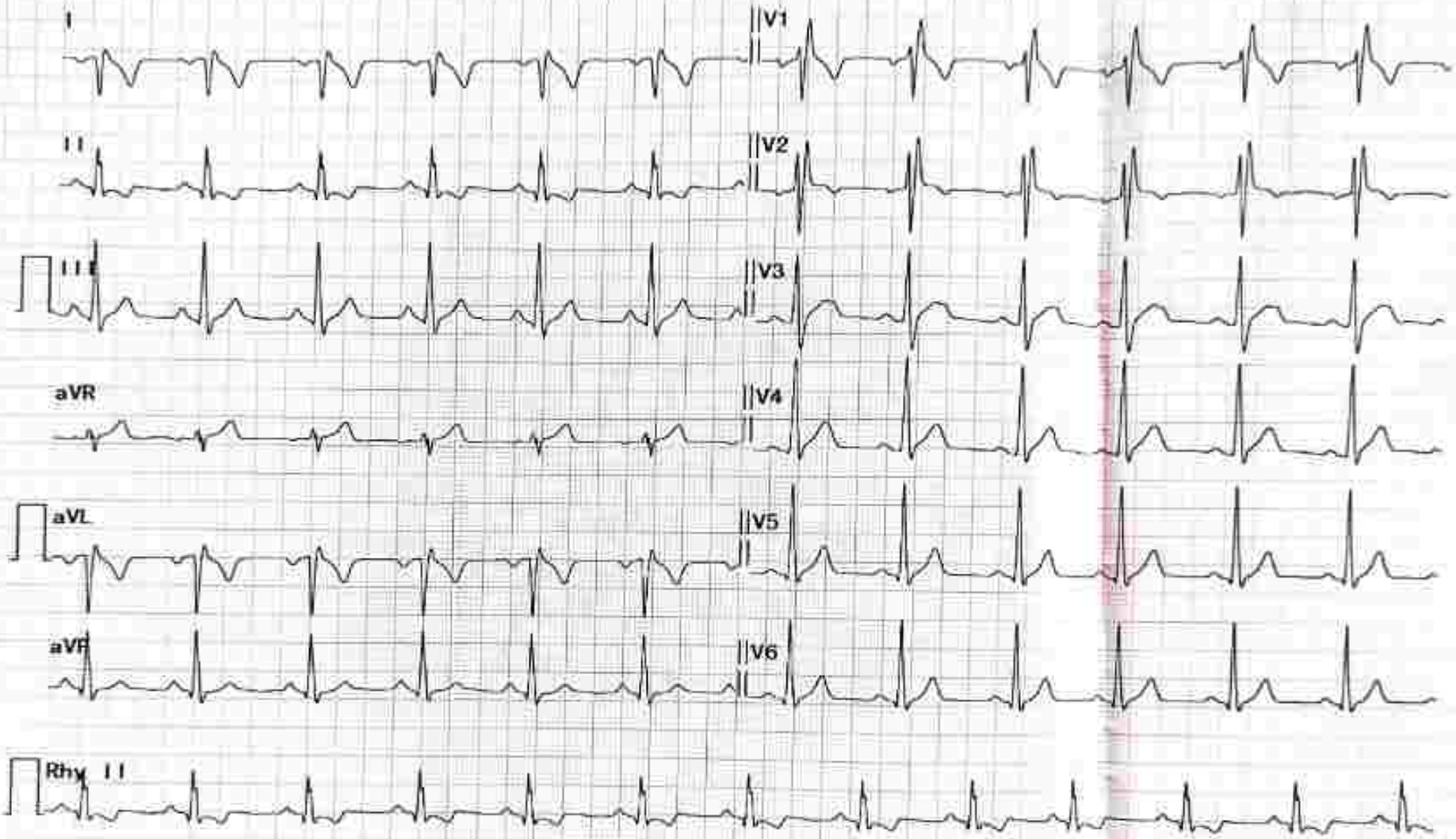
Hospital : ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	80 bpm
P Dur/PR int	106/158ms
QRS Dur	116ms
QT/QTC int	333/380 ms
P/QRS/T axis	116/124/158 °

RV5/SV1 amp 1.693/0.730mV
RV5+SV1 amp 2.423mV
RV6/SV2 amp 1.476/0.807mV

Minnesota Code
1-1-1(I)
1-3-1(II)
4-1-0(I)
4-2-0(II)
5-1-0(I)

Diagnosis Info
800: Sinus Rhythm
151: Dextrocardia(Re-examination)



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 80bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

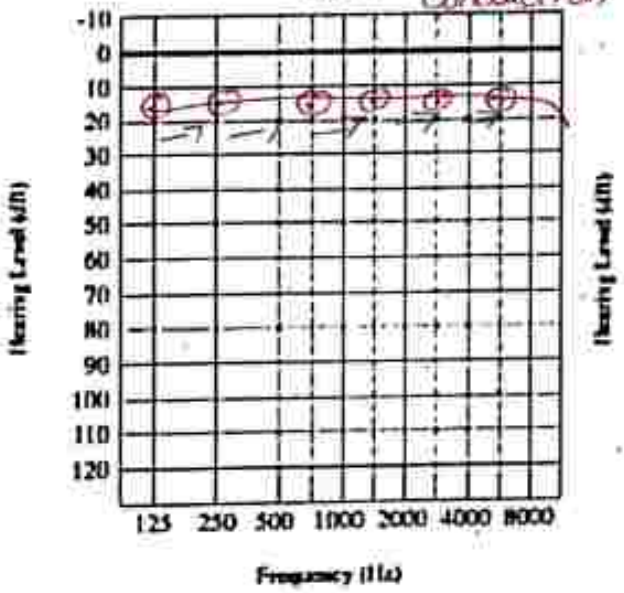
ALPHA HOSPITAL

Pure-tone audiogram

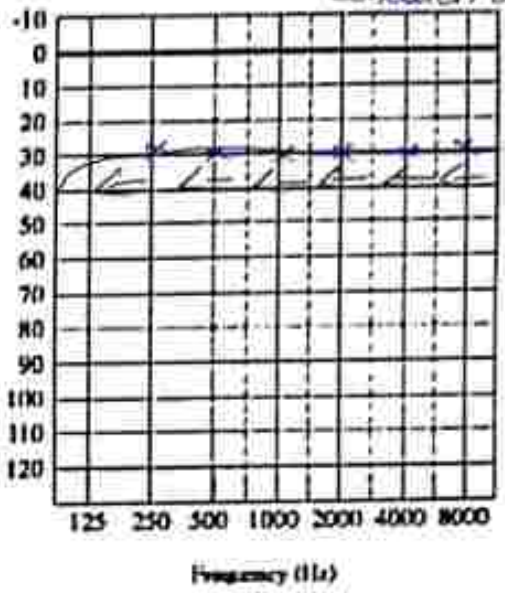
Name: MR. Tarkeshwar Nath Ram **Date:** 18/01/2023

Date of birth: 01/01/1987 **Case No:** 06

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Tarkeshwar nath ram

Date – 18/01/2023

Age/Sex-36/Male

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 06
2. Department/Work :
3. Name of the worker : Mr. Tarveshwar nathram
4. Age : 36
5. Sex : Male
6. Date of Examination :
   Vision < Rt eye - 6/6, Lt eye - 6/6 } Both eyes Extremely normal
7. Results :
   a) ISHIHARA CHARTS :-
   Identifies all chart correctly
   b) ELDERS GREEN LANTEEN :
   Identifies Red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

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HEALTHCARE PVT LTD

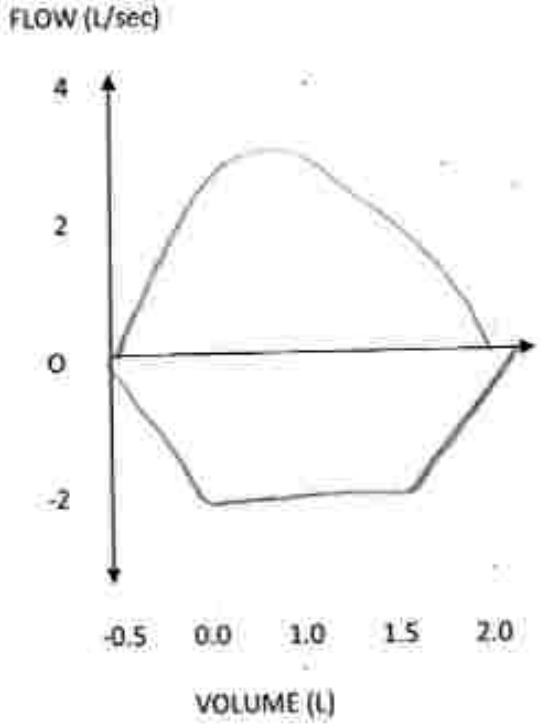
ALPHA HOSPITAL

NAME : Mr. Tarkeshwar NATH Ram

AGE/SEX : 36/Male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80%	82%	86%	88%	92%	104%



Tester Signature

ALPHA HOSPITAL

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No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220020
Name : MY. Tarkeshwar nath
Sex : male pem
Divisions:

DataTime: 2023-04-22 15:36
Age : 86
BP : mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR	75 bpm
P Dur PR int	109/160ms
QRS Dur	116ms
QT/QTC int	329/365 ms
P QRS T axis	112/120/151

RV5/SV1 amp	1.706/0.760mV
RV5+SV1 amp	2.466mV
RV6/SV2 amp	1.481/0.876mV

Minnesota Code
1-1-1(I,V2)
1-3-1(II)
4-5-0(V1)
4-1-0(I)
4-2-0(II)

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 75bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pure-tone audiogram

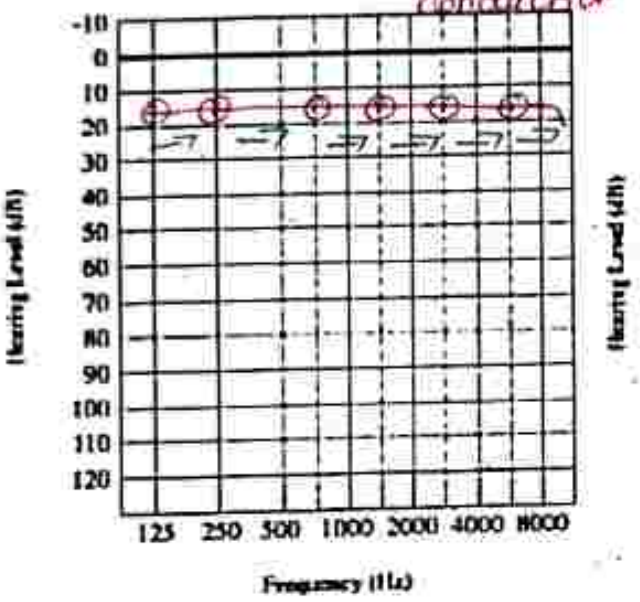
Name: MY. ASHOK KUMAR

Date: 18/01/2023

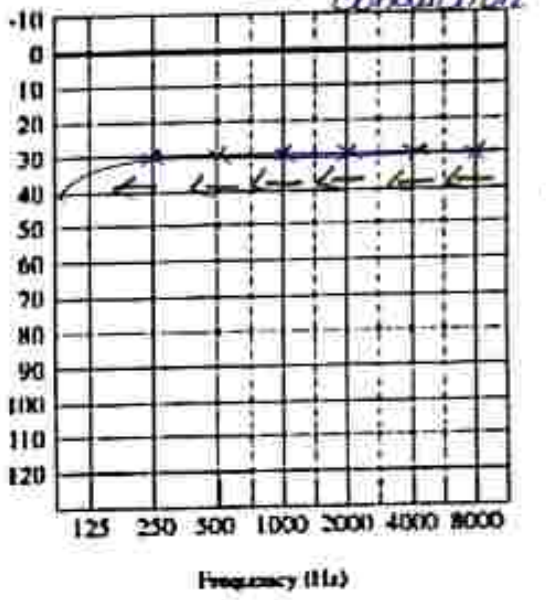
Date of birth: 05/09/2002

Case No: 07

RIGHT Air and Bone conduction



LEFT Air and Bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

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(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Ashok kumar

Date – 18/01/2023

Age/Sex-20/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

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(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HEL

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 07
2. Department/Work :
3. Name of the worker : MR. Ashok kumar
4. Age : 20
5. Sex : Male
6. Date of Examination : Vision) RH eye - 6/6 } both eyes Extremely normal
   Lt eye - 6/6
7. Results :
   a) ISHIHARA CHARTS:
   Identifies all chart correctly
   b) ELDERS GREEN LANTEEN:
   Identifies Red | Green | yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA H

HNX
HEALTHCARE PVT LTD

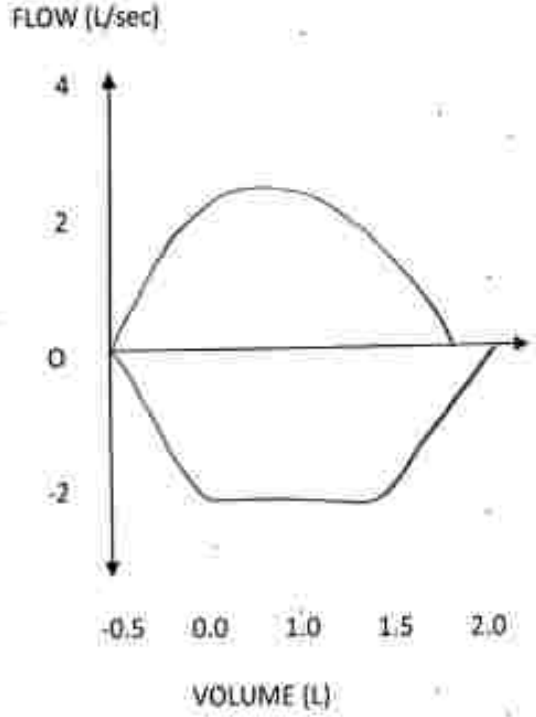
ALPHA HOSPITAL

NAME : Mr. ASHOK KUMAR

AGE/SEX : 20/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
86%	90%	94%	96%	98%	120%



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220043
Name: Mr. Ashok kumar
Sex : Male
Divisions:

DataTime: 2023-04-22 16:18
Age : 20
BP : mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

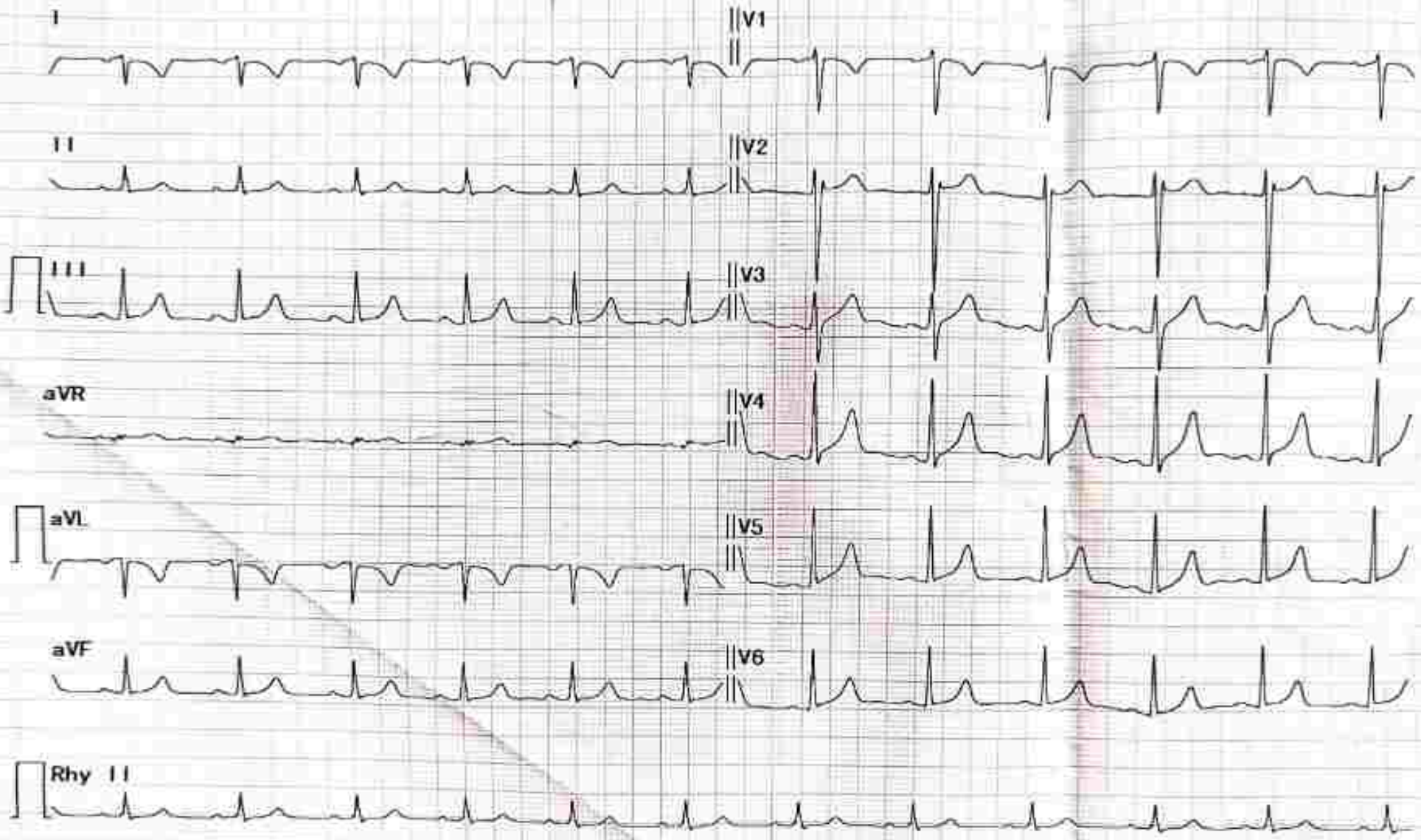
HR	73 bpm
P Dur/PR int	99 /154ms
QRS Dur	92 ms
QT/QTC int	374/413 ms
P/QRS/T axis	128/126/134

RV5 SV1 amp 1.446/0.998mV
RV5+SV1 amp 2.444mV
RV6/SV2 amp 1.114/1.726mV

Minnesota Code
4-2-0(I, aVL)
5-2-1(I, aVL)
9-4-1(V3)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 73bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

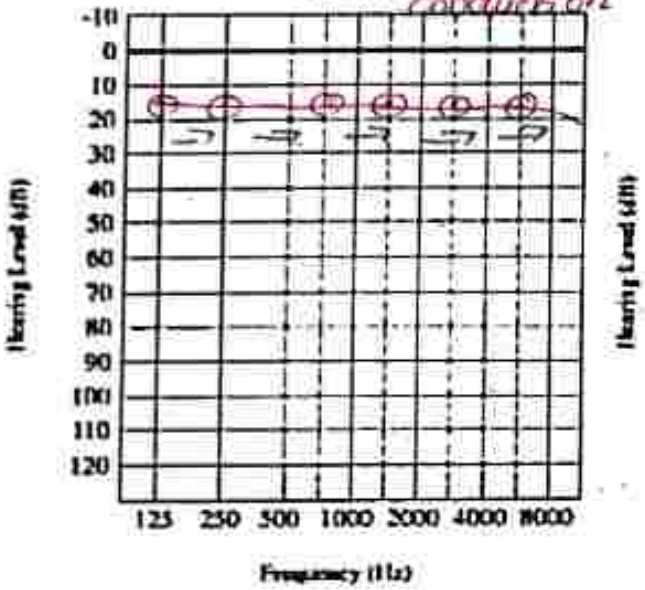
ALPHA HOSPITAL

Pure-tone audiogram

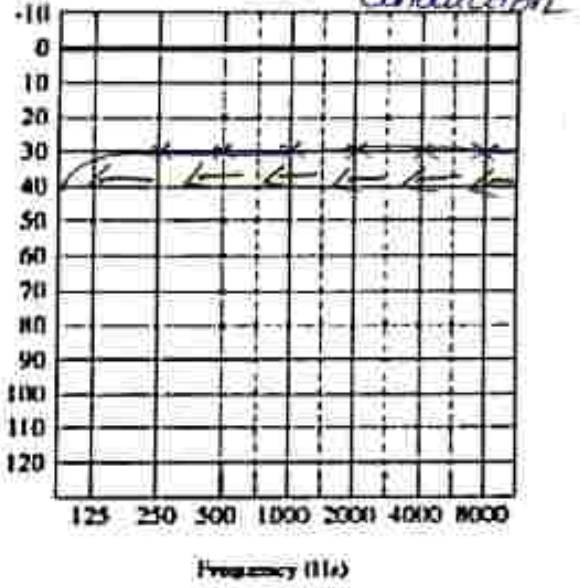
Name: Mr. Sumit Kumar **Date:** 18/01/2023

Date of birth: 01/01/2000 **Case No:** 08

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL

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(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr Sumit kumar **Date** –18/01/2023

Age/Sex-23/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

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A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage, Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA H

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 88
2. Department/Work :
3. Name of the worker : MR. Sumit kumar
4. Age : 30
5. Sex : Male
6. Date of Examination :
7. Results :
   a) Vision: Rt eye - 6/6, Lt eye - 6/6 } Both eyes extremely normal
   a) ISHIHARA CHARTS:
   identified all charts correctly
   b) FLUKER GREEN LANTERN:
   identified red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

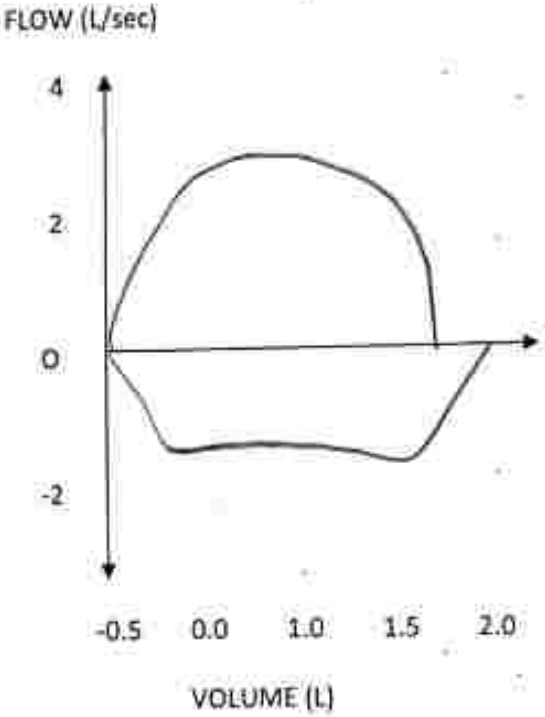
ALPHA HOSPITAL
REACHING UNREACHED

NAME : mr. SUMIT KUMAR

AGE/SEX : 23/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	86%	88%	90%	92%	98%



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220041
Name: Mr. Sumit kumar
Sex : Male
Divisions:

DataTime: 2023-04-22 16:17
Age : 23
BP : / mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

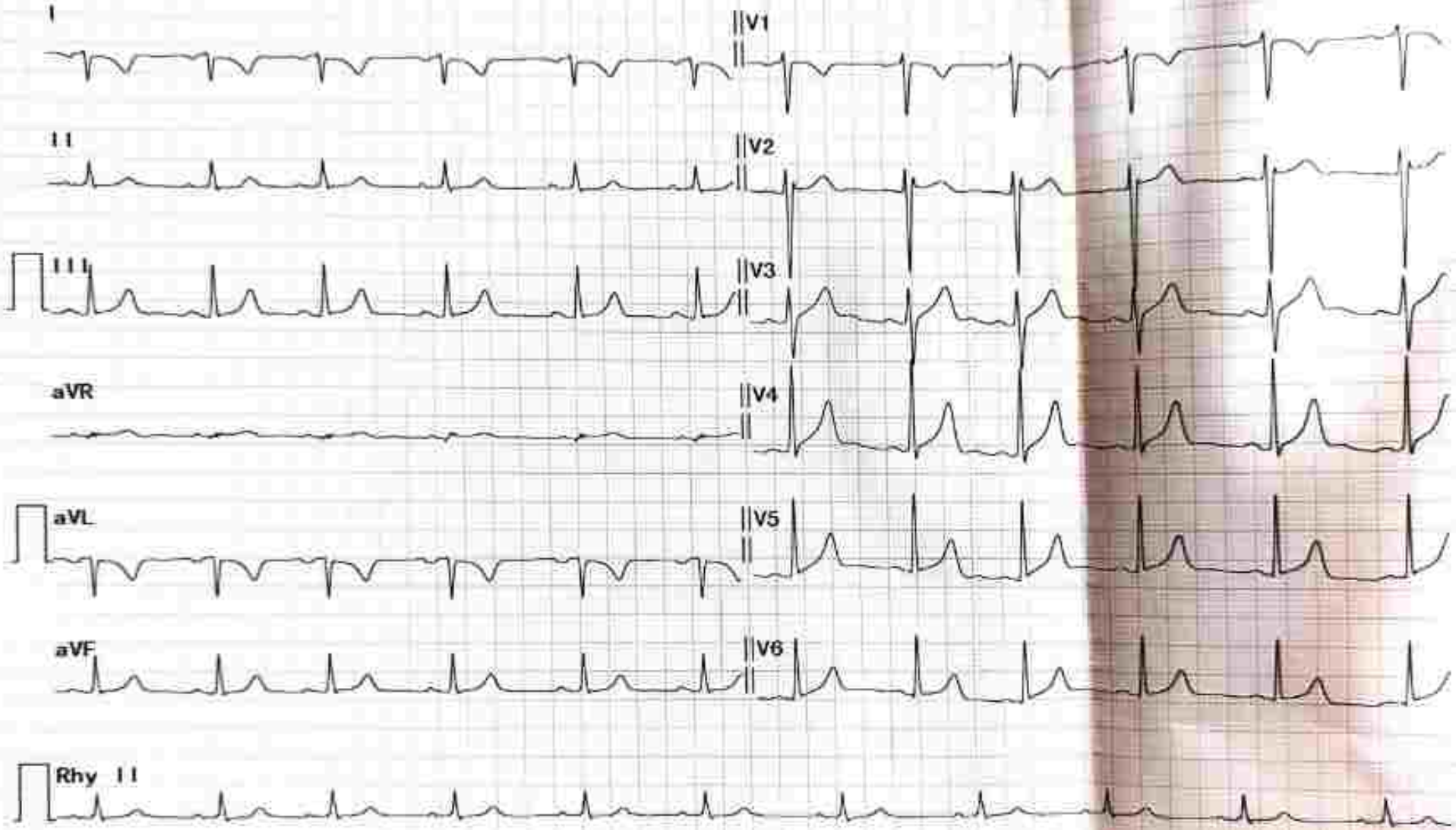
HR	64 bpm
P Dur/PR int	97 /149ms
QRS Dur	88 ms
QT/QTC int	378/395 ms
P/QRS/T axis	132/122/135

RV5/SV1 amp	1.441/1.012mV
RV5+SV1 amp	2.453mV
RV6/SV2 amp	1.117/1.734mV

Minnesota Code
4-2-0(aVL)
5-2-1(I,aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 64bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

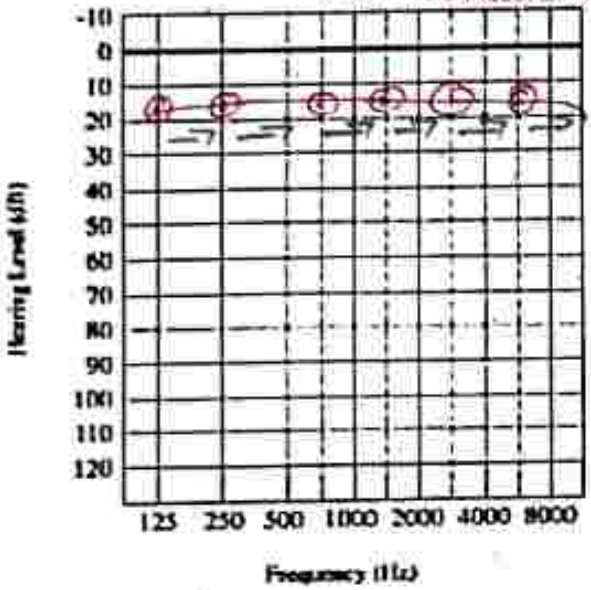
ALPHA HOSPITAL

Pure-tone audiogram

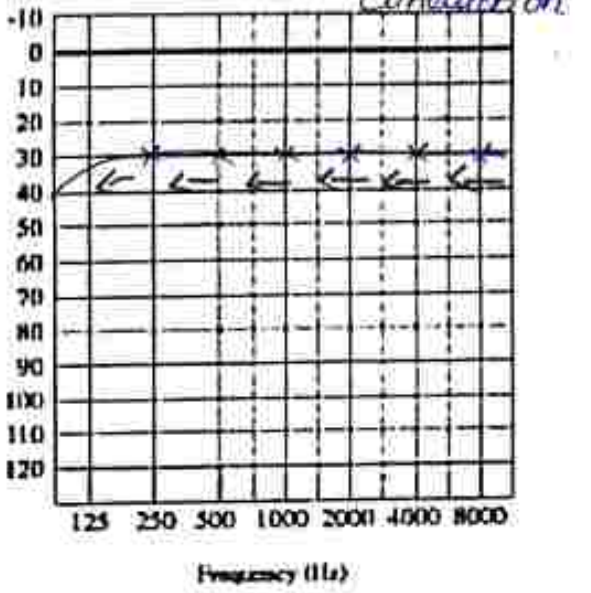
Name: MT. Vashishtha Mahato **Date:** 18/01/2023

Date of birth: 01/01/1973 **Case No:** 09

RIGHT Air and Bone Conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Vashishtha mahato

Date –18/01/2023

Age/Sex-50/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HOSPITAL
340 2A RAJDANGA MORE
[illegible]

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 09
2. Department/Work :
3. Name of the worker : Mr. Vasudeva Mahato
4. Age : 50
5. Sex : Male
6. Date of Examination : Vision / Rt eye – 6/6 / Lt eye – 6/6 } both eyes Extremely normal
7. Results :
   a) ISHIHARA CHARTS :-
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN :
   Identifies Red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : vision and colour vision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

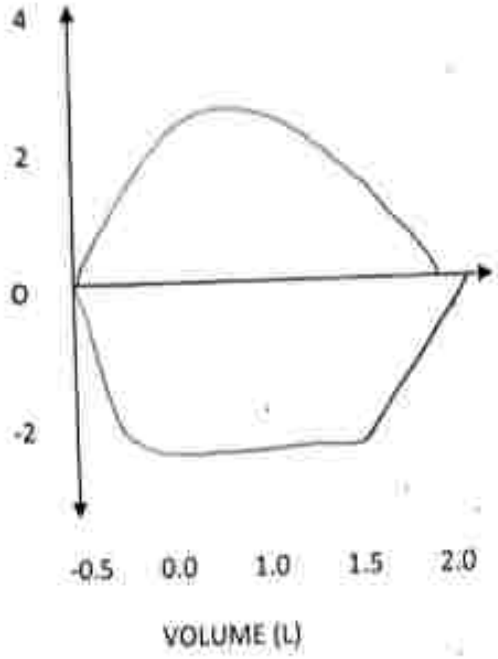
NAME : mr. vashista mahato

AGE/SEX : 50/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
80%	84%	96%	88%	90%	94%

FLOW (L/sec)



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220040
Name: Mr. Vashishtha mahato
Sex : Male
Divisions:

Datatime: 2023-04-22 16:17
Age : 60
BP : mmHg
Bed No.

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR 70 bpm
P Dur/PR int 87 /147ms
QRS Dur 90 ms
QT/QTC int 372/409 ms
P/QRS/T axis 134/123/137 °

RV5/SV1 amp 1.443/0.994mV
RV5+SV1 amp 2.437mV
RV6/SV2 amp 1.109/1.726mV

Minnesota Code
4-2-0(1)
5-2-1(I, aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 70bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

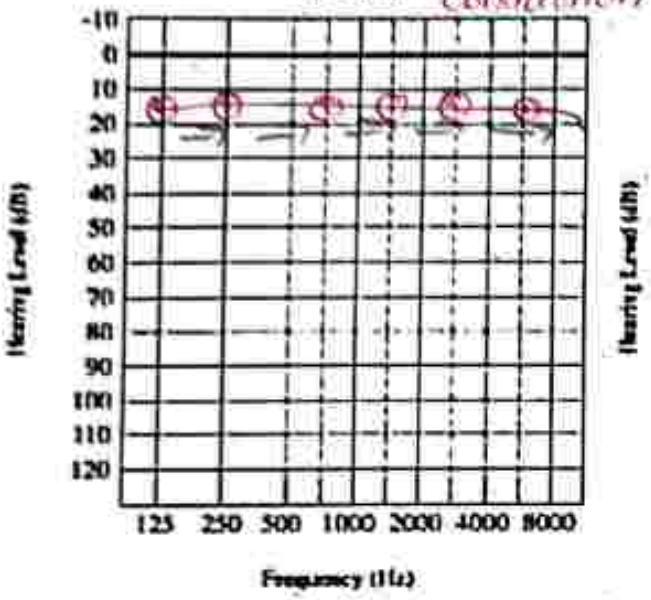
ALPHA HOSPITAL

Pure-tone audiogram

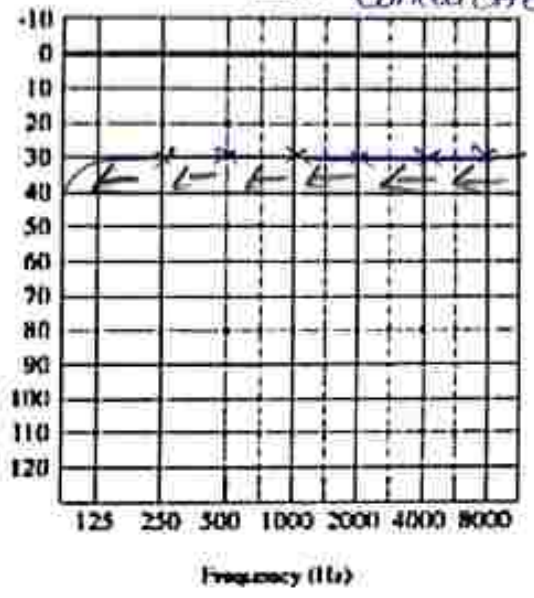
Name: MT. Narsingh mohanthy **Date:** 18/07/2023

Date of birth: 20/05/1976 **Case No:** 10

RIGHT Air and Bone conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr. Narsingh mohanthy **Date** –18/01/2023

Age/Sex-46/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal	- No fractures or swellings
Visualised lung fields clear	- No mass or shadows
Hilum appears Normal	
Increased broncho	- Vascular markings
Cardiac shadow appears normal	
Cardiophrenic and costophrenic angles normal	- No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

ALPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage, Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HOSPITAL

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 20
2. Department/Work :
3. Name of the worker : MY Narsingh Mohanthy
4. Age : 46
5. Sex : male
6. Date of Examination :
7. Results : Vision - Rt eye -6/6, Lt eye -6/6 } both eyes extremely normal

a) ISHIHARA CHARTS :-
Identifies all charts correctly
b) ELDERS GREEN LANTERN:
Identifies Red / Green / yellow colours correctly

8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colour vision normal

HNX
HEALTHCARE PVT LTD

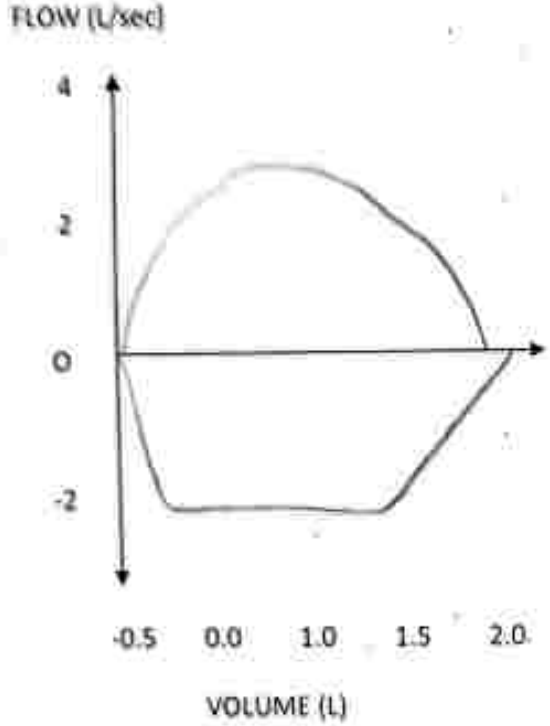
ALPHA HOSPITAL

NAME : mr. narsingh mohanty

AGE/SEX : 46/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
86 %	85 %	89 %	90 %	91 %	106 %



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220039
Name: Mr. Maribigh motanthu
Sex : male
Divisions:

DataTime: 2023-04-22 16:16
Age : 46
BP : / mmHg
Bed No. :

Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

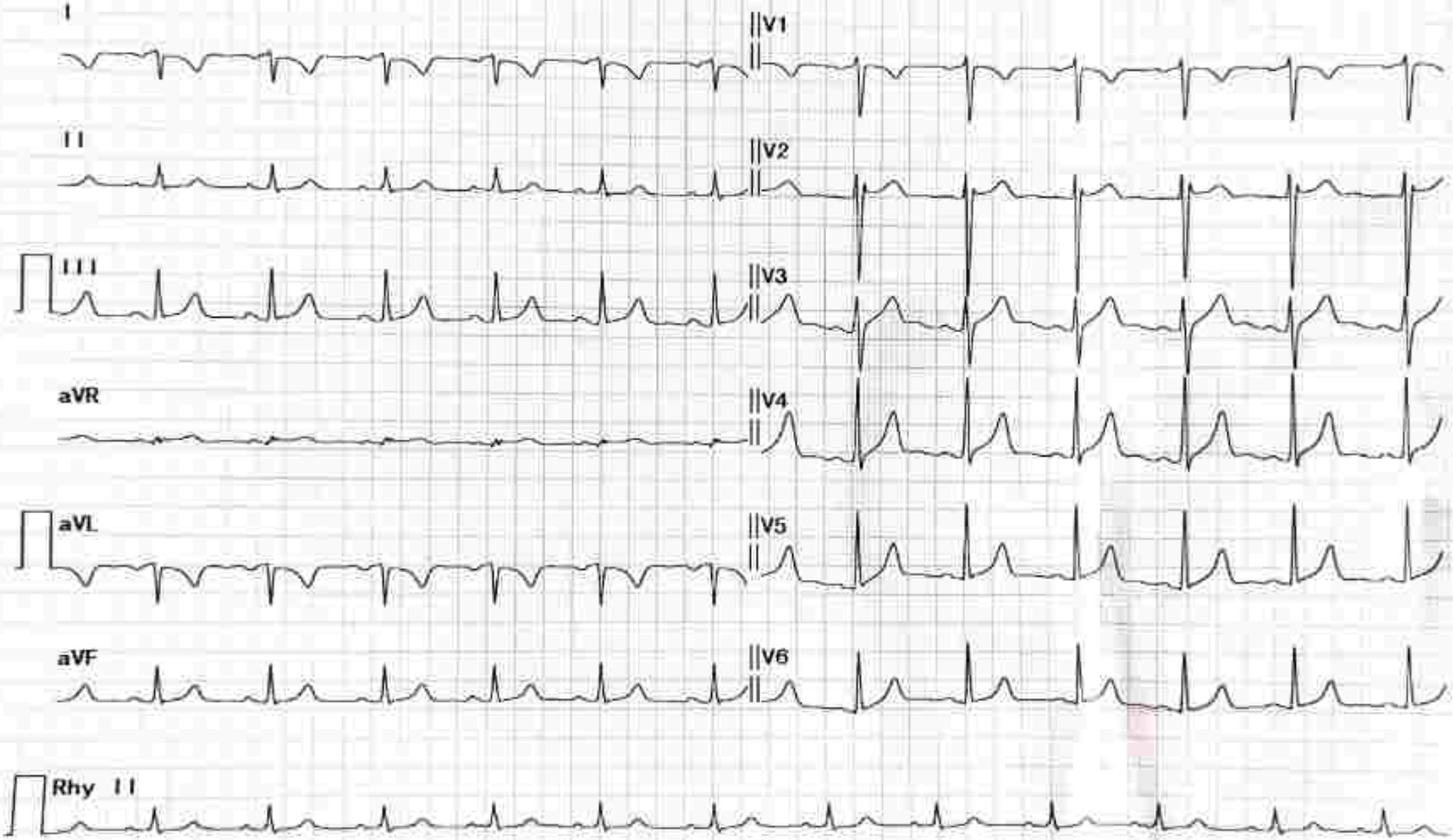
HR	76 bpm
P Dur PR int	94 146ms
QRS Dur	92 ms
QT/QTC int	372/420 ms
P/QRS/T axis	124/125/135

RV5/SV1 amp	1.430/0.988mV
RV5+SV1 amp	2.418mV
RV6/SV2 amp	1.095/1.708mV

Minnesota Code
4-2-0(1)
5-2-1(I,aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 76bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

HNX
HEALTHCARE PVT LTD

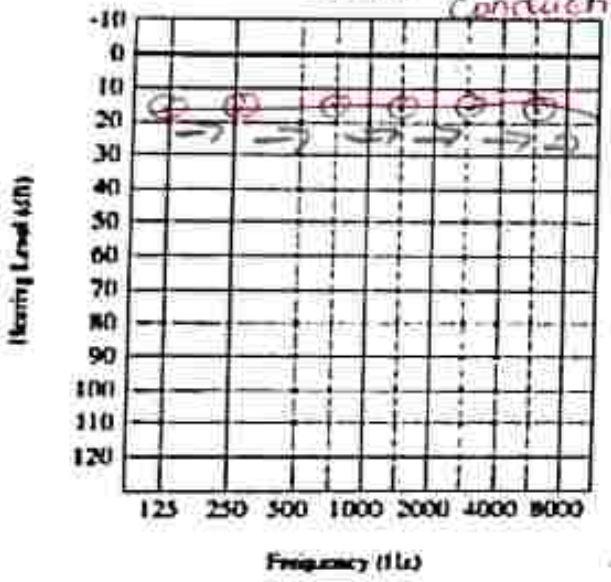
ALPHA HOSPITAL

Pure-tone audiogram

Name: Mr. Debadinandan pattakaik **Date:** 18/01/2023

Date of birth: 18/09/1999 **Case No:** 14

RIGHT Air and bone conduction



LEFT Air and bone conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⅃

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity is with normal limits

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Debakindandan pattakaik

Date –18/01/2023

Age/Sex-23/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

LPHA HOSPITAL

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,

Gummidipoondi,Thiruvallur 601201. GSTIN : 33AAFCH7087Q1ZV

Contact : 8925414999

From

To

ALPHA HOSPITAL

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 15
2. Department/Work :
3. Name of the worker : Mr. Debakindandan pattakaik
4. Age : 43
5. Sex : male
6. Date of Examination :
7. Results :
   Vision < Rt eye - 6/6, Lt eye - 6/6 } Both eye Extremely normal
   a) ISHIHARA CHARTS :
   Identifies all charts correctly
   b) ELDERS GREEN LANTERN :
   Identifies red / Green / yellow colours correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist :
10. Remarks : Vision and colourvision normal

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL
REACHING UNREACHED

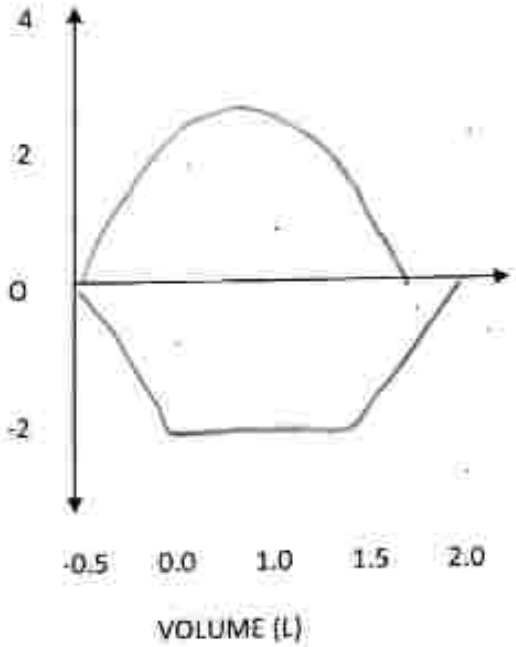
NAME : Mr. DEBALINDAN DAW PATTAKIK

AGE/SEX : 23/male

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
82%	90%	92%	96%	100%	102%

FLOW (L/sec)



Tester Signature

ALPHA HOSPITAL
REACHING UNREACHED

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304220035
Name: Mr Debasundardar
Sex : male - pattabi
Divisions:

DataTime: 2023-04-22 16:14
Age : 23
BP : / mmHg
Bed No. :

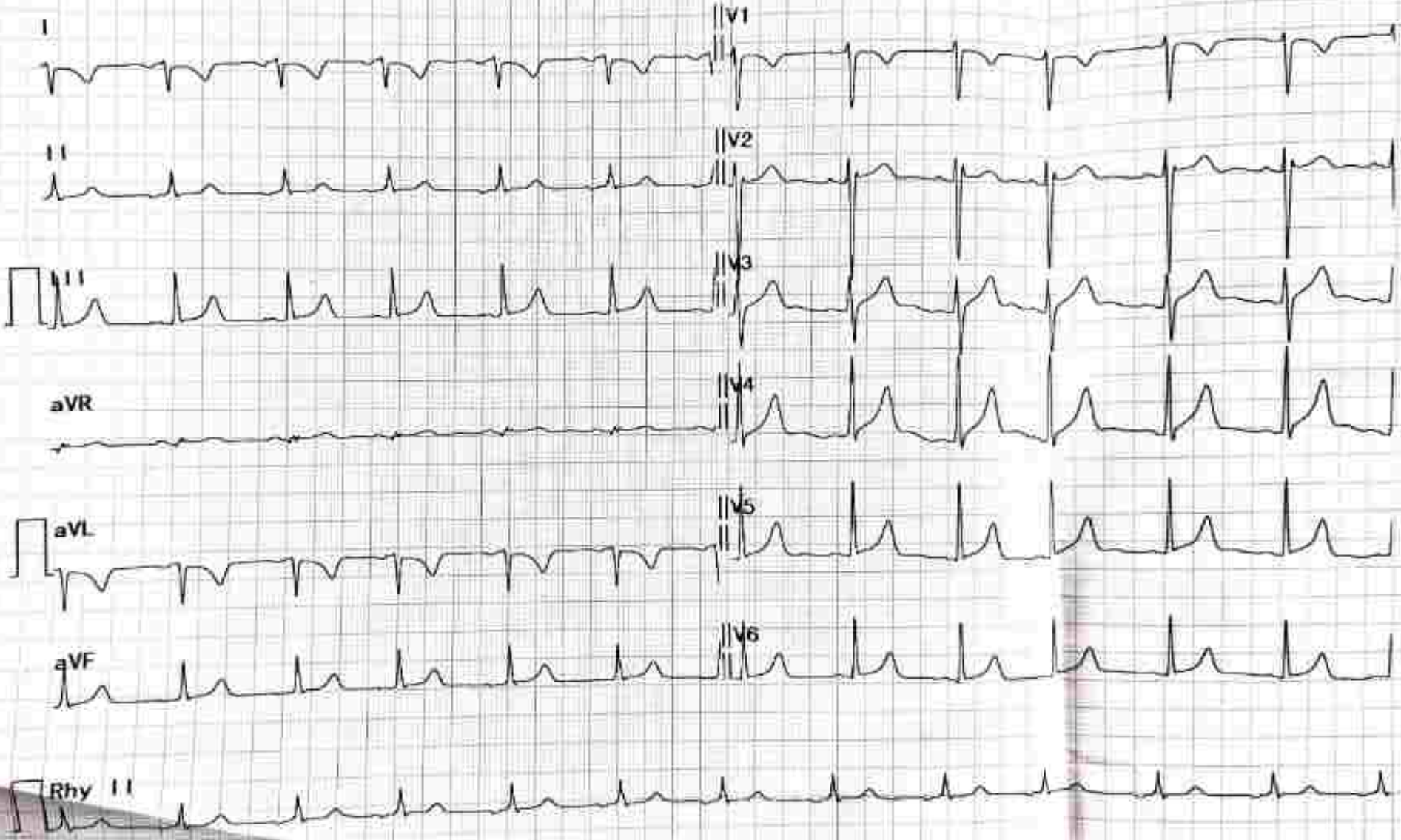
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No.:

HR	74 bpm	RV5/SV1 amp	1.427/0.988mV
P Dur/PR int	92 /146ms	RV5+SV1 amp	2.415mV
QRS Dur	91 ms	RV6/SV2 amp	1.089/1.718mV
QT/QTC int	371/415 ms		
P QRS/T axis	186/126/134		

Minnesota Code
4-2-0(I,aVL)
5-2-1(I,aVL)
2-2-0

Diagnosis Info
800: Sinus Rhythm
112: Arm Leads Reversed?

Normal ECG



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 74bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec

Confirmed By:

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

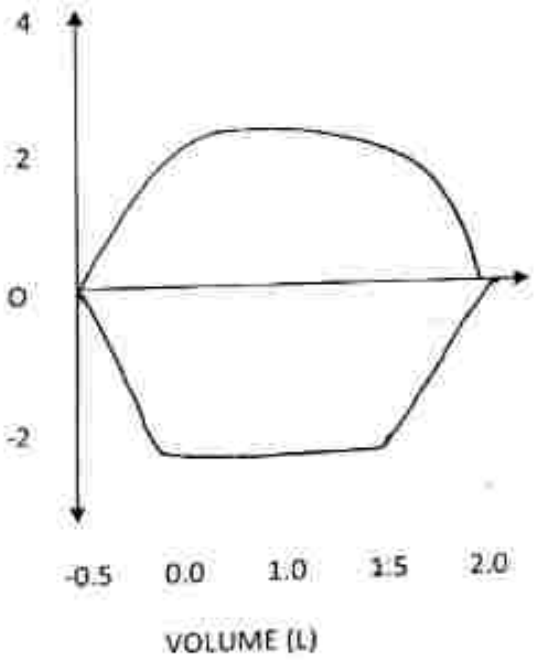
NAME : Mr. Rohit

AGE/SEX : 31 / M

PFT REPORT

FEV1	FVC	FEV1/FVC	TLC	RV	DLCO
87%	90%	95%	98%	87%	78%

FLOW (L/sec)



Tester Signature

ALPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Pure-tone audiogram

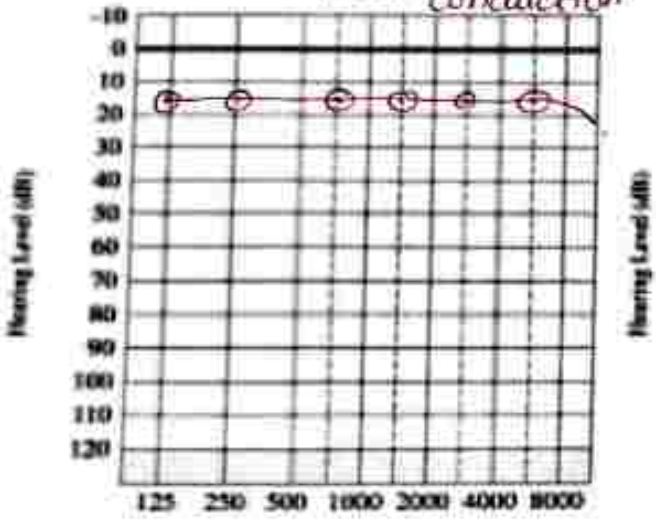
Name: MY. Rahil

Date: 18/01/2023

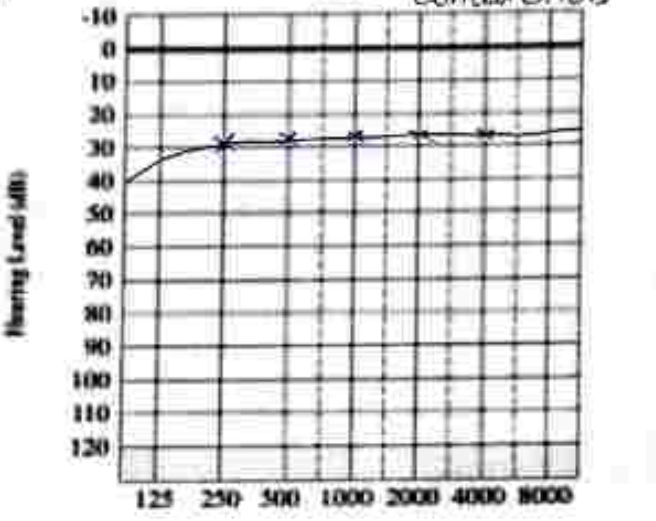
Date of birth: 28/03/1998

Case No:

RIGHT Air and Bone conduction



LEFT Air and Bone Conduction



	Right	Left
Air conduction, masked if necessary	O	X
Bone conduction, not masked	Δ	
Bone conduction, masked	[	]
Uncomfortable loudness level	L	⌋

Audiometer type & serial number: _____

Earphone type: _____

Date of last objective calibration: _____

Tester: _____ Signature: _____

Comments: Hearing sensitivity with normal limits

ALPHA HOSPITALS

A Unit of HNX Health Care Pvt Ltd

(Opposite To Mitsuba Company,Gummidipoondi)

No.340/2A,Raju Complex, Bypass Road, Pappan Kuppam Village,

Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**

Contact : 8925414999

ALPHA HOSPITAL

HNX
HEALTHCARE PVT LTD

ALPHA HOSPITAL

Name-Mr.Rohit **Date** –18/01/2023

Age/Sex-31/M

Radiology Report – Chest X Ray PA View findings

The thoracic cage appears normal - No fractures or swellings

Visualised lung fields clear - No mass or shadows

Hilum appears Normal

Increased broncho - Vascular markings

Cardiac shadow appears normal

Cardiophrenic and costophrenic angles normal - No blunting

No free fluid. Visualised parts of vertebrae normal in appearance

Impression – Normal Study

Signature of the Radiologist

Dr D Prabhakaran MD [RD]

LPHA HOSPITAL

ALPHA HOSPITALS
A Unit of HNX Health Care Pvt Ltd
(Opposite To Mitsuba Company,Gummidipoondi)
No.340/2A,Raju Complex, Bypass Road, Pappan KuppamVillage,
Gummidipoondi,Thiruvallur 601201. **GSTIN : 33AAFCH7087Q1ZV**
Contact : 8925414999

ID : 2304040003
Name: Mr. Rohit
Sex : Male
Divisions:

DataTime: 2023-04-04 19:41
Age : 31
BP : / mmHg
Bed No. :

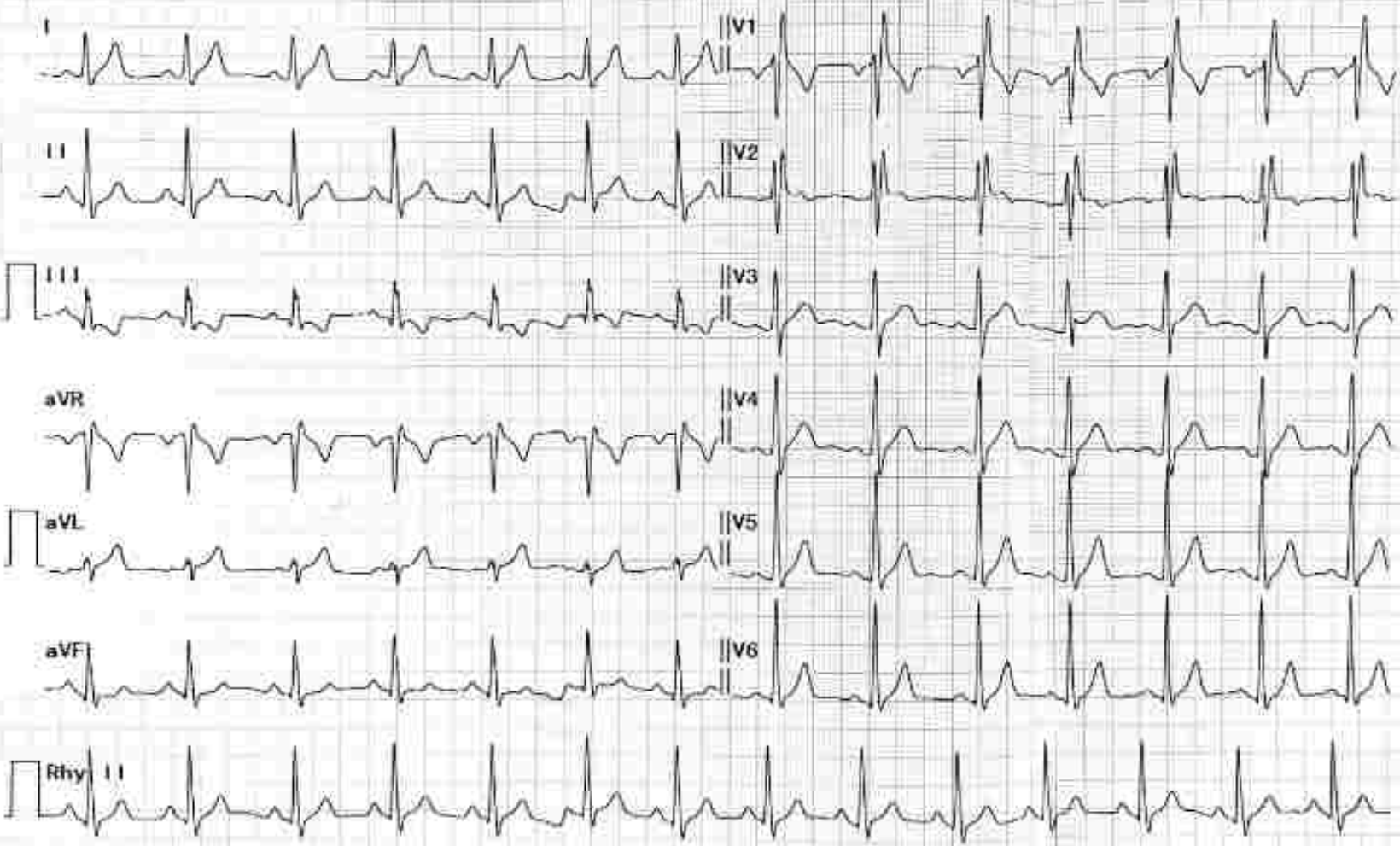
Hospital: ALPHA HOSPITAL
Height : cm
Weight : kg
Hospital No. :

HR 88 bpm
P Dur PR int 105 156ms
QRS Dur 120ms
QT QTC int 327 393 ms
P QRS T axis 56 52 17 °

RV5 SV1 amp 2.102 0.967mV
RV5+SV1 amp 3.069mV
RV6 SV2 amp 1.913 0.707mV

Minnesota Code
7-2-0
1-3-4(III, aVF)

Diagnosis Info
800: Sinus Rhythm
504: CRBBB(Complete Right Bundle Branch Block)



Diagnosis for reference, ask your doctor to confirm
AUTO PRINT 6X2+1R 88bpm 10 mm/mV 0.50Hz-25Hz AC 50Hz 25 mm/sec Confirmed By:

From

To

FORM 38

(Prescribe Under Sub Rule(4)of Rule 61k)

Record of Eye Examination

1. Serial No : 08
2. Department/Work : Kanishk Steels.
3. Name of the worker : Mr. Rohit
4. Age : 31
5. Sex : male
6. Date of Examination :
7. Results : Vision < Rt eye - 6/6 } Both eyes normal.
   Lt eye - 6/5 }
   Colour vision (a) ISHIHARA CHARTS: Identifies all charts Correctly
   (b) EDRIDGE GREEN LANTERN
   Identifies Red/Green/yellow Charts correctly
8. Signature of the Ophthalmologist :
9. Name of Hospital & Name the Ophthalmologist : Dr - Kalpana Aaradhana eye clinic
10. Remarks : Vision, & Colour vision normal.

ANNEXURE – III

COPY OF THE LETTER SUBMITTED TO PRINCIPAL CHIEF CONSERVATORS OF FORESTS AND CHIEF WILDLIFE WARDEN ,CHENNAI AND UNDERTAKING LETTER AND NOC - WILD LIFE CLEARANCE

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 10/03/2024

To
The Principal Chief Conservators of Forests and Chief Wildlife Warden ,
State Forest Headquarters
Guindy-Velachery Main Road,
Chennai – 600 032.

Sir,

Sub: Forests - Wildlife - Online application received from M/s. Kanishke Steel Industries Ltd., Expanding inside existing SIPCOT land (Industrial land use zone - SIPCOT Gummidipoondi) - National Board for Wildlife clearance requested - NOC Issued - Regarding.- Status of ConditionsRegarding.

Ref: 1.NOC letter from Principal Chief Conservator Forests (HoFF), State Forest Headquarters, Guindy letter No. Ref No. WL5/21519/2022 date 01/03/2024.

With reference to the above reference and status of the conditions stipulated in the letter

SI.NO.	CONDITONS	STATUS OF CONDITONS
1	The project proponent shall obtain all other statutory clearance and also submit Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary if required.	We obtained Consent to Establish (CTE) Air &Water ,Consent to operate (CTO) Air & Water from TNPCB and Hazardous waste Authorization from TNPCB and Environmental clearance from SEIAA-TN. No requirement of wild life conservation plan, since our unit is having recycling the water in the process in respect of cooling, Sewage is treated in sewage treated plant and completely unities inside the plant and tree plantation. Hence we are not disturbing the ecosystem in the Pulicat lake
2	The project proponent shall submit an undertaking stating that no disturbance will be caused to the wildlife during project implementation.	Fully complied Attached undertaking letter

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

3	The project proponent shall ensure that there is no discharge from the project area towards into the sanctuary.	Fully complied The domestic sewage (8.9 KLD) generated from the proposed expansion project is treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 8.5 KLD from this used for green belt development. The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 19 KLD is recirculated for the processes. Further Pulicat Bird Sanctuary (9.09 km) so there is no discharge from the project area towards into the sanctuary.
4	Any other conditions stipulated by the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Wildlife Warden, Chennai shall be followed.	We agree to comply

For M/s. **Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 10/03/2024

To
The Principal Chief Conservators of Forests and Chief Wildlife Warden ,
State Forest Headquarters
Guindy-Velachery Main Road,
Chennai – 600 032.

Sir,
Sub: Undertaking - The project proponent shall submit an undertaking stating that no disturbance will be caused to the wildlife during project implementation - Regarding.

Ref: 1.NOC letter from Principal Chief Conservator Forests (HoFF), State Forest Headquarters, Guindy letter No. Ref No. WL5/21519/2022 date 01/03/2024

With reference to the above reference, hereby submit this undertaking in connection with the proposed project to be implemented at **SIPCOT Industrial Area, Gummidipoondi, Tiruvallur District**, which is situated approximately **9.09 km from Pulicat Bird Sanctuary**.

We hereby assure that:

1. The proposed project activities will not cause any disturbance to the wildlife in and around the Pulicat Bird Sanctuary.

This undertaking is being submitted in compliance with the terms of reference for Wildlife Clearance in proximity to Protected Areas.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

NOC - WILD LIFE CLEARANCE

Ref No. WL5/21519/2022

O/o. Principal Chief Conservator Forests (HoFF),
State Forest Headquarters,
Guindy-Velachery Main Road,
Chennai - 600 032
Dated: 01-03-2024

Sub: Forests – Wildlife – Online application received from M/s. Kanishk Steel Industries Ltd., – Expanding inside existing SIPCOT land (Industrial land use zone – SIPCOT Gummidipoondi) – National Board for Wildlife clearance requested – NOC Issued – Regarding.

Ref: Government of India, Ministry of Environment Forests and Climate Change, New Delhi letter F. No. WL-6/33/2024-WL dated 28-02-24.

* * * *

Attention of the Wildlife Warden, Chennai is invited to the references cited. It is informed that the Standing Committee of National Board for Wildlife has recommended the proposal vide Agenda No. 78.3.25. Based on the above, No Objection is hereby granted to expansion of Steel Melting Plant and rolling mill over an area of 3.015 Ha of non forest land for the production of 76,000 TPA of Re-rolled products / structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Pvt Limited subject to following conditions:-

1) The project proponent shall obtain all other statutory clearance and also submit Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary if required.
2) The project proponent shall submit an undertaking stating that no disturbance will be caused to the wildlife during project implementation.
3) The project proponent shall ensure that there is no discharge from the project area towards into the sanctuary.
4) Any other conditions stipulated by the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Wildlife Warden, Chennai shall be followed.

The Wildlife Warden, Chennai is requested to send the annual compliance certificate on the stipulated conditions to be obtained from the User Agency to this office for onward submission to the Government of India. He is also

requested to send the Impact Mitigation Plan of Marine and Wildlife Conservation of Pulicat Birds Sanctuary to this office for approval.

Encl: As stated above

Sd/- Srinivas R. Reddy
Principal Chief Conservator of Forests
and Chief Wildlife Warden

To
The Wildlife Warden,
Chennai.

Copy to the Additional Principal Chief Conservator of Forests and Director, Arignar Anna Zoological Park, Vandalur, Chennai – 48 for information and necessary action.

Copy to M/s. Kanishk Steel Industries Pvt Limited, B-27, MNS SIPCOT Industrial Complex, Gummidipoondi – 601 021 for information.

/True Copy / By Order /

for Senior Draughting Officer

24/3/21

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC057863
E-mail : sales@kanishksteels.in

ISO 9001

ANNEXURES IV
EMP IMPLEMENTATION SCHEDULE AND EMP COST AND BANK ACCOUNT WITH HEAD WISE EXPENSES STATEMENT OF THE INVESTMENT

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC057863
E-mail : sales@kanishksteels.in

ISO 9001

EMP IMPLEMENTATION SCHEDULE

Sr.No	Recommendation	Requirement /Status
1	Air pollution control measures	Air pollution control measures provided in industry
2	Water pollution control measures	Water pollution control measures provided in industry
3	Noise control measures	Noise control measures provided in industry
4	Solid waste management	Solid waste management is implemented
5	Greenbelt development	Work in progress and will done at stage wise implementation

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

ENVIRONMENTAL MEASURES PLAN

Sr.No.	Description of Item	Cost (Rs. In Lakhs)
1	Air pollution control system	110.72
2	Water pollution control system	40.9
3	Environmental Monitoring	4.13
4	Greenbelt development, rainwater harvesting and others	4
5	Recurring Cost	11.14
	Total	**170.89**

Source: KSIL, Gummidipoondi

KANISHK STEEL INDUSTRIES LTD

Director

Air Bill				
S NO	Inv NO.	Party Name	Amount	
1	PK423209	PK Enterprises	720272	
2	PK423203	PK Enterprises	929368	
3	PK423202	PK Enterprises	803462	
4	PK423201	PK Enterprises	918335	
5	PK423206	PK Enterprises	1134452	
6	PK423207	PK Enterprises	1166902	
7	PK423204	PK Enterprises	1016983	
8	PK423208	PK Enterprises	993619	
9	PK423207	PK Enterprises	1166902	
10	TI/18	SR Enterlink	200600	
11	EX/23-24/2149	GSE Filter Pvt Ltd	266000	
12	EX/23-24/2361	GSE Filter Pvt Ltd	21616	
13	010	Mianzi Enterprises	9511	
14	CPS230688	Chennai Pneumatics	122062	
15	UE/24-25/150	Universal Equipments	123900	
16	119	A Gunaseeli	37088	
17		Kalyan Mechanical Works	200000	
18	PGS-095	Power Guard System	9440	
19	B 009	SSS Engineering & Contracto	1030941	
20		Chennai Pneumatics	200600	
		TOTAL	**11072053**	

21	1494/23-24	Nevco Engineers Pvt Ltd	413000	Environment

Water

S.NO	Inv No	Party Name	Amount
1	PCTEL/222/23-24	Paltech Cooling Tower	2665620
2	PCTEL/447/23-24	Paltech Cooling Tower	587726
3	PCTEL/637/23-24	Paltech Cooling Tower	49896
4	005	Viswa Equipment Pvt Ltd	787500
			4090742

Recurring cost

S.no	Inv No	Party Name	Amount
1	418	RS Electrical	324500
2	4663	TNT Paints	9723
3	4699	TNT Paints	27352
4	4700	TNT Paints	23293
5	4705	TNT Paints	17936
6	4795	TNT Paints	40781
7	4812	TNT Paints	24214
8	4889	TNT Paints	9204
9	4882	TNT Paints	18573
10	4916	TNT Paints	13339
11	UE/24-25/150	Universal Equipment	123900
12	790	GSE Filter	10384
13	54	Marine Machinery	49560
14	10569	Wadhawan Engineers	167395
15	10731	Wadhawan Engineers	33078
16	241	Chennai Pneumatics	67713
17	18	Chennai Pneumatics	21240
18	272	Chennai Pneumatics	9878
19	CPS230688	Chennai Pneumatics	122062
Total			**1114125**

For Mahavir Steel Industries Pvt. Ltd.

Director

Bill of Supply

Earth Sense Agro Products Pvt Ltd Farm
R.O. 43/1, Besant Avenue Road, Adyar, Chennai-20
B.O 1/185, Janappan Chatram Cross Road
Ahyyakkam Village, Ponneri Tk
Tamil Nadu - 600067, India
GSTIN/UIN: 33AABCH7654R1Z0
State Name : Tamil Nadu, Code : 33
Consignee (Ship to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33
Buyer (Bill to)
Kanishk Steel Industries Limited
B-27N, B-27M, B-27S, Sipcot Industrial Complex
Gummidipoondi-601201
Tamil Nadu - India
GSTIN/UIN : 33AABCK2367G1ZS
State Name : Tamil Nadu, Code : 33

Invoice No.	Dated
CS167/24-25	**10-Jan-25**
Delivery Note	Mode/Terms of Payment
Reference No. & Date	Other References
Buyer's Order No.	Dated
Dispatch Doc No.	Delivery Note Date
Dispatched through	Destination
Terms of Delivery	

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate (Incl. of Tax)	Rate	per	Amount
1	**Peltophorum**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
2	**Badham**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
3	**Gulmohar**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
4	**Pungai**	0601	**20 Nos**	100.00	100.00	Nos	**2,000.00**
5	**Spethodia Big**	0601	**20 Nos**	290.00	290.00	Nos	**5,800.00**
6	**Sapota Sapling**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
7	**Madulai**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
8	**Guava Plant**	0601	**5 Nos**	200.00	200.00	Nos	**1,000.00**
9	**Water Apple**	0601	**5 Nos**	280.00	280.00	Nos	**1,400.00**
10	**Potting Mix 20 Kg Bag**	3101	**200 Bag**	95.00	95.00	Bag	**19,000.00**
	Total						**₹ 38,000.00**

E. & O.E

Amount Chargeable (in words)
Indian Rupees Thirty Eight Thousand Only

HSN/SAC	Taxable Value
0601	19,000.00
3101	19,000.00
Total	**38,000.00**

Tax Amount (in words) : **NIL**

Company's Bank Details
Bank Name : **State Bank of India**
A/c No. : **35744653932**
Branch & IFS Code : **JANAPPAN CHATHIRAM & SBIN0007594**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

for Earth Sense Agro Products Pvt Ltd Farm

For Earth Sense Agro Products Pvt. Ltd.
Authorised Signatory

This is a Computer Generated Invoice

Authorised Signatory

SBI

Account Name	KANISHK STEEL INDUSTRIES LIMITED
Address	OLD NO.4 NEW NO.7 THIRU-VI-KA 3RD ST ROYAPETTAH HIGH ROAD MYLAPORE-600004 OLD NO.4 NEW NO.7 THIRU-VI-KA 3RD ST
Date	29 Apr 2024
Account Number	00000042267303781
Account Description	CA-PLATINUM-PUB-OTH-ALL-INR
Drawing Power	0.00
Interest Rate(% p.a.)	0.0000
MOD Balance	0.00
CIF No.	78321016803
IFS Code	SBIN0001793
MICR Code	600002043
Nomination Registered	No
Balance as on 1 Oct 2023	0.00

Account Statement from 1 Oct 2023 to 31 Mar 2024

Txn Date	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
10 Oct 2023	10 Oct 2023	BY TRANSFER-RTGS UTR NO: HDFCR52023101094394253-KANISHK STEEL INDUSTRIES LIMITED	TRANSFER FROM 3199856044300 / KANISHK STEEL INDUSTRIES LIMITED		45,00,000.00	45,00,000.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077016433-494811 GSE FILTER PRIVATE LIMITED	494811 GSE FILTER PRIVATE LIMITED	3,84,450.00		41,15,550.00
10 Oct 2023	10 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101077073383-494812 SSS ENGINEERING AND CONTRACTORS	494812 SSS ENGINEERING AND CONTRACTORS	10,13,467.00		31,02,083.00
11 Oct 2023	11 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023101177290337-494813 S R ENTERLINK	494813 S R ENTERLINK	2,00,600.00		29,01,483.00
16 Oct 2023	16 Oct 2023	CHQ TRANSFER-NEFT UTR NO: SBIN323289810702-494814 KALYAN MECHANICAL WORKS	494814 KALYAN MECHANICAL WORKS	1,96,000.00		27,05,483.00
27 Oct 2023	27 Oct 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023102780344376-494816 GSE FILTER PRIVATE LIMITED	494816 GSE FILTER PRIVATE LIMITED	2,66,000.00		24,39,483.00
1 Nov 2023	1 Nov 2023	TO CLEARING-Chq No. 494815 INB AGUNASEELI-494815	494815	37,088.00		24,02,395.00
7 Nov 2023	7 Nov 2023	CHQ TRANSFER-RTGS UTR NO: SBINR52023110782578851-494817 KALYAN MECHANICAL WORKS	494817 KALYAN MECHANICAL WORKS	2,00,000.00		22,02,395.00
23 Nov 2023	23 Nov 2023	CHQ TRANSFER-NEFT UTR NO: SBIN523327311970-494818 KALYAN MECHANICAL WORKS	494818 KALYAN MECHANICAL WORKS	94,000.00		21,08,395.00

ate	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
19 Dec 2023	19 Dec 2023	TO CLEARING-Chq No. 494819 HDF GSE FILTER PRIVATE LIMITE-494819	494819	21,616.00		20,86,779.00
3 Jan 2024	3 Jan 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024010393713672-494820 NEVCO ENGINEERS PVT LTD	494820 NEVCO ENGINEERS PVT LTD	4,13,000.00		16,73,779.00
2 Feb 2024	2 Feb 2024	CHQ TRANSFER-RTGS UTR NO: SBINR52024020299796536-494822 R S ELECTRICAL WORKS	494822 R S ELECTRICAL WORKS	3,24,500.00		13,49,279.00
12 Mar 2024	12 Mar 2024	A/C Keeping Chgs--		321.65		13,48,957.35

Please do not share your ATM, Debit/Credit card number, PIN and OTP with anyone over mail, SMS, phone call or any other media. Bank never asks for such information.

**This is a computer generated statement and does not require a signature.

KANISHK STEEL IND LTD (2024-25)

Old No 4 New No 7,
Thiru Vi Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004
E-Mail accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Apr-24 to 13-Feb-25

Date		Particulars	Vch Type	Vch No.	Debit	Credit
1-Apr-24	Cr	**Opening Balance**			**13,48,957.35**	
29-Apr-24	Dr	**CHENNAI PNEUMATICS**	BANK PAYMENT	CH NO: 494823		1,50,000.00
17-Jun-24	Dr	**POWER GUARD SYSTEM**	BANK PAYMENT	CH NO: 494824		9,440.00
24-Jun-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIJUN24/CA-001		10,384.00
25-Jun-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA-002		9,511.00
26-Jun-24	Dr	**UNIVERSAL EQUIPMENTS**	BANK PAYMENT	SBIJUN24/CA-003		75,000.00
26-Aug-24	Dr	ANGALAMN ENGINEERING AND TECH	BANK PAYMENT	SBIAUG24/CA-001		1,17,233.00
30-Aug-24	Dr	**MIANZI ENTERPRISES**	BANK PAYMENT	SBIJUN24/CA		18,290.00
	Dr	ANGALAMN ENGINEERING AND TECH	BANK PAYMENT	SBIAUG24/CA-002		2,12,280.00
12-Sep-24	Dr	**NEVCO ENGINEERS PVT LTD**	BANK PAYMENT	SBISEP24/CA-001		1,00,300.00
23-Dec-24	Dr	**GSE FILTER PRIVATE LIMITED**	BANK PAYMENT	SBIDEC24/001		1,00,016.00
					13,48,957.35	8,02,454.00
	Dr	**Closing Balance**				5,46,503.35
					13,48,957.35	**13,48,957.35**

KANISHK STEEL IND LTD (2023-24)

Old No 4 New No 7,
Thiru-Vi-Ka 3rd Street,
Royapettah High Road,
Mylapore,
Chennai 600 004.
E-Mail : accounts@kanishksteels.in

STATE BANK OF INDIA - ROYAPETTAH BRANCH Book

213, ROYAPETTAH HIGH ROAD,
CHENNAI

1-Oct-23 to 31-Mar-24

Date		Particulars	Vch Type	Vch No.	Debit	Credit
10-Oct-23	Cr	HDFC BANK- CURRENT A/C (NEW)	Contra	SBI/CONTRA1	45,00,000.00	
	Dr	SSS ENGINEERING & CONTRACTORS	BANK PAYMENT	CH NO:494812/RTGS		10,13,467.00
	Dr	S R ENTERLINK	BANK PAYMENT	CH NO:494813/RTGS		2,00,600.00
	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494811/RTGS		3,84,450.00
16-Oct-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494814/RTGS		1,96,000.00
21-Oct-23	Dr	A. GUNASEELI - CONTRACTOR	BANK PAYMENT	CH NO:494815/CHEQ		37,088.00
27-Oct-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494816/RTGS		2,66,000.00
7-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494817/RTGS		2,00,000.00
23-Nov-23	Dr	KALYAN MECHANICAL WORKS	BANK PAYMENT	CH NO:494818/RTGS		94,000.00
18-Dec-23	Dr	GSE FILTER PRIVATE LIMITED	BANK PAYMENT	CH NO:494819/RTGS		21,616.00
3-Jan-24	Dr	NEVCO ENGINEERS PVT LTD	BANK PAYMENT	CH NO:494820/RTGS		4,13,000.00
2-Feb-24	Dr	R.S. ELECTRICAL WORKS	BANK PAYMENT	CH NO:494822/RTGS		3,24,500.00
12-Mar-24	Dr	BANK CHARGES	BANK PAYMENT	BANK CHARGES		321.65
					45,00,000.00	31,51,042.65
	Dr	Closing Balance				13,48,957.35
					45,00,000.00	**45,00,000.00**

ANNEXURE V

HEALTH, SAFETY & ENVIRONMENTAL POLICY

& BOARD RESOLUTION

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

HEALTH, SAFETY & ENVIRONMENTAL POLICY

We Kanishk Steel Industries Limited are committed to implementation of OHSE Policy to create safe and Healthy Environment to all its stake holders (Employees, contractors, contract labours, trainees, suppliers, customers and Interested parties as an integral part of our manufacturing business)

Through:

- Compliance of all applicable legal and other requirements related to the Occupational Health, Safety and Environment (OHSE).
- Setting objectives and targets to climinate/control and minimize waste generation and environmental pollution, risks due to Occupational Health and Safety Hazards.
- Enhancement of environmental awareness amongst employees, customers, supplier's contractors and all interested parties by proactive communication and periodical training.
- Continuous improvement through periodical review of Occupational Health, Safety and Environmental Management System to ensure its suitability, adequacy and effectiveness.
- Communication OF HSE Policy to all employees, customers, supplier's contractors and all related parties.
- Co-oridination with concerned Government agencies/Regulatory bodies engaged in Occupational Health, Safety and Environmental activities

Approved by:

For M/s. Kanishk Steel Industries Limited,

(Ashok Bohra)
Director

KANISHK STEEL INDUSTRIES LTD

Director

Effective Date : 27/07/2023

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

BOARD RESOLUTION

RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF M/S KANISHK STEEL INDUSTRIES LIMITED (KSIL) IN THEIR MEETING HELD ON 08/08/2023

RESOLVED THAT the Environmental Policy of M/s Kanishk Steel Industries Limited (KSIL), as set out in this document, be and is hereby approved and adopted for implementation across all operations of the company.

RESOLVED FURTHER THAT the company shall implement necessary measures to ensure compliance with all environmental, forest, and wildlife norms and conditions, as prescribed by regulatory authorities.

RESOLVED FURTHER THAT the Managing Director and other authorized officials be and are hereby empowered to oversee the enforcement of this policy and to make necessary modifications in alignment with legal and regulatory requirements from time to time.

RESOLVED FURTHER THAT the Board of Directors shall periodically review the effectiveness of this policy and ensure continual improvement in environmental performance.

CERTIFIED TRUE COPY

For **M/s Kanishk Steel Industries Limited (KSIL)**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

Date: 08/08/2023

ANNEXURE VI

PRELIMINARY RISK ASSESSMENT

7.0 ADDITIONAL STUDIES

7.1 Risk Assessment and Disaster Management Plan

Hazard analysis involves the identification and quantification of the various hazards (unsafe conditions) that exist in the plant. On the other hand, risk analysis deals with the identification and quantification of risks, the plant equipment and personnel are exposed to, due to accidents resulting from the hazards present in the plant.

Risk analysis follows an extensive hazard analysis. It involves the identification and assessment of risks the neighbouring populations are exposed to as a result of hazards present. This requires a thorough knowledge of failure probability, credible accident scenario, vulnerability of population etc.

In the sections below, the identification of various hazards, probable risks in the proposed modernization of Steel Rolling Mill, maximum credible accident analysis, consequence analysis are addressed which gives a broad identification of risks involved in the plant. Based on the risk estimation for fuel and chemical storage, Disaster Management Plan (DMP) has been prepared.

7.1.1 Approach to the Study

Risk involves the occurrence or potential occurrence of some accidents consisting of an event or sequence of events. The risk assessment study covers the following:

- Identification of potential hazard areas;
- Identification of representative failure cases;
- Visualization of the resulting scenarios in terms of fire (thermal radiation) and explosion;
- Assessment of the overall damage potential of the identified hazardous events and the impact zones from the accidental scenarios;
- Assessment of the overall suitability of the site from hazard minimization and disaster mitigation points of view;
- Furnishing specific recommendations on the minimization of the worst accident possibilities; and
- Preparation of broad Disaster Management Plan (DMP), On-site and Off-site Emergency Plan, which includes Occupational and Health Safety Plan.

7.1.2 Hazard Identification

Identification and quantification of hazards in the steel industry modernization is of primary significance in the analysis, quantification and cost effective control of accidents. A classical definition of hazard states that hazard is in fact the characteristic of system/plant/process that presents potential for an accident.

Hence, all the components of a system/plant/process need to be thoroughly examined to assess their potential for initiating or propagating an unplanned event/sequence of events, which can be termed as an accident. The following two methods for hazard identification have been employed in the study:

- Identification of major hazardous units based on Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 of Government of India (GOI Rules, 1989); and
- Identification of hazardous units and storage units based on relative ranking technique, viz. Fire-Explosion and Toxicity Index (FE&TI).

7.1.3 Identification of Major Hazardous Units

Hazardous substances may be classified into three main classes such as flammable substances and unstable substances and toxic substances. The ratings for a large number of chemicals/substances based on flammability, reactivity and toxicity have been given in NFPA Codes 49 and 345 M. In the proposed project expansion, HSD will be stored in-built tank of DG set for generation of power in case of gnd failure. The details of HSD storage and its classification as per GOI rules are given in **Table-7.1.** Hazardous characteristics of HSD are listed in **Table-7.2.**

TABLE-7.1
APPLICABILITY OF GOI RULES TO FUEL

Sr. No.	Chemical/ Fuel	Listed in Schedule	Storage	Threshold Quantity (T) for Application of Rules	
				5,7-9,13-15	10-12
1	HSD	3 (1)	240 Lit – Inbuilt storage within DG set	25 MT	200 MT

TABLE-7.2
PROPERTIES OF STORAGE FUELS

Chemical/ Fuel	Codes/Label	TLV	FBP	MP	FP	UEL	LEL
			°C			%	
HSD	Flammable	5 mg/m³	369	338	32.9	7.5	0.6

TLV : Threshold Limit Value
MP : Melting Point
UEL : Upper Explosive Limit
FBP : Final Boiling Point
FP : Flash Point
LEL : Lower Explosive Limit

7.1.4 Common Causes of Accidents

Based on the analysis of past accident information, common causes of accidents are identified as:

- Poor housekeeping;
- Improper use of tools, equipment, facilities;
- Unsafe or defective equipment facilities;
- Lack of proper procedures;
- Failure to follow prescribed procedures;
- Jobs not understood;
- Lack of awareness of involved hazards;
- Lack of guides and safety devices; and
- Lack of protective equipment and clothing.

7.1.5 Failures of Human Systems

Major causes of human failures reported are due to:

- Stress induced by poor equipment design, unfavourable environmental conditions, fatigue, etc.;
- Lack of training in safety and loss prevention;
- Indecision in critical situations; and
- Inexperienced staff being employed in hazardous situations.

Often, human errors are not analyzed while accident reporting and accident reports only provide information about equipment and/or component failures. Hence, a great deal of uncertainty surrounds analysis of failure of human systems and consequent damages.

7.2 Hazard Assessment and Evaluation

7.2.1 Methodology

An assessment of the conceptual design is conducted for the purpose of identifying and examining hazards related to utility and support systems, environmental factors, facilities, and safeguards.

7.2.2 Preliminary Hazard Analysis (PHA)

A preliminary hazard analysis is carried out initially to identify the major hazards associated with storage and the processes of the plant. This is followed by consequence analysis to quantify these hazards. The various process activities involved in the plant purely mechanical operations those are not complex or hazardous. Hence, no major hazards with potential for any emergency situation exist in the process plants. The other hazards related to the Plant and storage areas are given below in **Table - 7.3**.

TABLE - 7.3
PRELIMINARY HAZARD ANALYSIS FOR PROCESS AREAS

Equipment	Process	Potential Hazard	Provision
Induction furnaces	The MS scrap is charged into the furnace where it gets melted and is converted to liquid metal	• Charging a furnace with impure or moist scrap metal and alloys. • Pouring or tipping the molten metal into a holding furnace or ladle. • Pouring the molten metal from ladles into molds.	✓ Barriers and other protecting covering, including the mobile shields should be used. ✓ Set up to protect workers againstthe splashes of molten metal and electromagnetic radiation. ✓ Using of PPE (Personal Protective Equipment) must reduce or eliminate the risks associated with the handling of molten metal in melting unit.
Power Transformers	Transmit the power from high tension to low tension	Fire and explosion	All electrical fittings and cables are provided as per the specified standards
Switch Yard Control Room	-	Fire in cable galleries and switch	As above

TABLE-7.4
PRELIMINARY HAZARD ANALYSIS IN GENERAL

PHA Category	Description of Plausible Hazard	Recommendation	Provision
Environ-mental factors	If there is any leakage and eventuality of source of ignition.	-	All electrical fittings and cables will be provided as per the specified standards. All motor starters are flame proof.
	Highly inflammable nature of fuels may cause fire hazard in the storage facility.	A well designed fire protection including protein foam, dry powder CO_2 extinguisher should be provided.	Fire extinguisher of small size and big size are provided at all potential fire hazard places. In addition to the above, fire hydrant network is also provided.

7.2.3 Maximum Credible Accident Analysis (MCAA)

Hazardous substances may be released as a result of failures or catastrophes, causing possible damage to the surrounding area. A disastrous situation may arise due to outcome of fire, explosion or toxic hazards in addition to other natural causes, which eventually lead to loss of life, property and ecological imbalance. Major hazards posed by flammable storage can be identified taking recourse to MCA analysis. Depending upon the effective hazardous attributes and their impact on the event, the maximum effect on the surrounding environment and the respective damage caused can be assessed.

The results of consequence analysis are useful for getting information about all known and unknown effects that are of importance when some failure scenario occurs in the proposed expansion activity and also to get information as how to deal with the possible catastrophic events. It also gives the residents in the project and people living in the vicinity of the area, an understanding of their personal situation.

Damage Criteria

The Inbuilt storage of HSD in the DG Set and unloading facility may lead to fire and explosion hazards. The damage criteria due to accidental release of any hydrocarbon anse from fire and explosion. The vapors of these fuels are not toxic and hence no effects of toxicity are expected.

Tank fire will occur if the radiation intensity is high on the peripheral surface of the tank leading to increase in internal tank pressure. Pool fire will occur when fuel collected in the dyke due to leakage gets ignited.

- **Fire Damage**

A flammable liquid in a pool will burn with a large turbulent diffusion flame. This releases heat based on the heat of combustion and the burning rate of the liquid. A part of the heat is radiated while the rest is convicted away by rising hot air and combustion products. The radiations can heat the contents of a nearby storage or process unit to above its ignition temperature and thus result in a spread of fire. The radiations can also cause severe burns or fatalities of workers or fire fighters located within a certain distance.

Hence, it will be important to know beforehand the damage potential of a flammable liquid pool likely to be created due to leakage or catastrophic failure of a storage or process vessel. This will help to decide the location of other storage vessels and decide the type of protective clothing the workers/fire fighters need, the duration of time for which they can be in the zone, the fire extinguishing measures needed and the protection methods needed for the nearby storage/process vessels. The damage effects on people and equipment due to thermal radiation intensity are presented in **Tables-7.5** and **Table-7.6** respectively.

TABLE-7.5
DAMAGE DUE TO INCIDENT RADIATION INTENSITIES

Sr. No.	Incident Radiation (kW/m^2)	Type of Damage Intensity	
		Damage to Equipment	Damage to People
1.	37.5	Damage to process equipment	100% lethality in 1 min. 1% lethality in 10 sec.
2.	25.0	Minimum energy required to ignite wood at indefinitely long exposure without a flame	50% Lethality in 1 min. Significant injury in 10 sec.
3.	19.0	Maximum thermal radiation intensity allowed on thermally unprotected adjoining equipment	-
4.	12.5	Minimum energy to ignite with a flame; melts plastic tubing	1% lethality in 1 min.
5.	4.5	-	Causes pain if duration is longer than 20 sec. however blistering is un-likely (First degree burns)
6.	1.6	-	Causes no discomfort on long exposures

Source: Techniques for Assessing Industrial Hazards by World Bank

The effect of incident radiation intensity and exposure time on lethality is given in **Table- 7.6.**

TABLE-7.6
RADIATION EXPOSURE AND LETHALITY

Radiation Intensity (kW/m^2)	Exposure Time (seconds)	Lethality (%)	Degree of Burns
1.6	--	0	No Discomfort even after long exposure
4.5	20	0	1st
4.5	50	0	1st
8.0	20	0	1st
8.0	50	<1	3rd
8.0	60	<1	3rd
12.0	20	<1	2nd
12.0	50	8	3rd
12.5	--	1	--
25.0	--	50	--
37.5	--	100	--

The Diesel is stored within the in-built storage tank so external storage is fuel is not necessary hence risk assessment has not been carried

7.2.4 Identification of Hazards, Assessment and their Management

The various hazards associated, apart from fuel storage with the plant process has been identified and has outlined in **Table-7.7.**

TABLE-7.7
HAZARD ANALYSIS FOR PROCESS IN STEEL PLANT

Sr. No.	Blocks/Areas	Hazards Identified
1	Induction furnace	Liquid metal
2	Switch-yard Control Room	Fire in cable galleries and Switch-gear/Control Room

7.2.5 Hazardous Events with Greatest Contribution to Fatality Risk

The hazardous event scenarios likely to make the greatest contribution to the risk of potential fatalities are summarized in **Table-7.8.** 'Onsite facility' refers to the operating site at AAP, whereas 'offsite facility' refers to transport and handling systems, which are away from the AAP operating site.

TABLE-7.8
HAZARDOUS EVENTS CONTRIBUTING TO ON-SITE FACILITY RISK

Hazardous Event	Risk Rank	Consequences of Interest
Onsite vehicle impact on personnel	3	Potential for single fatalities, onsite impact only
Entrapment/struck by Machinery	3	Potential for single fatalities, onsite impact only
Fall from heights	3	Potential for single fatalities, onsite impact only
Electrocution	3	Potential for single fatalities, onsite impact only
Storage stack collapse	3	Potential for single fatalities, onsite impact only

7.2.6 Risk Assessment Summary

The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:

- The industry is operating in SIPCOT Industrial complex with uninterrupted power supply & there is a petrol bunk within 3 km. There would not be necessity for bulk storage of Diesel hence the major impacts to community and environmental is less. Proper handling of fuel systems and machineries would reduce the probability; and
- The hazardous event scenarios and risks in general at this facility can be adequately managed to acceptable levels by performing the recommended safety studies as part of

detailed design, applying recommended control strategies and implementing a Safety Management System.

7.2.7 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector; and
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage; and
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

ON–SITE EMERGENCY RESPONSE PLAN



M/s Kanishk & OP Steel Industries Limited

TVR03471

Plot No. B-27 SIPCOT Industries Complex,
Gummidipoondi, Thiruvallur District,
Tamilnadu, India - 601201

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7	Emergency Preparedness Action and Mitigation Plans
8	Emergency Response Team
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12	Emergency Action During Natural calamities
13	Recovery procedure
14	Mutual Aid Scheme
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INTRODUCTION

This comprehensive Emergency management plan for M/s. OP STEEL LIMITED., was drafted in accordance with the guidelines of the Government of Tamil Nadu. The Emergency management plan covers natural and man-made disasters, emergency preparedness plans for on-site purpose and disaster relief and mitigation. Its prime objective is to mitigate the possible risks emanating from OP STEEL LIMITED, related operations Onsite and Offsite in Tiruvallur District of Tamil Nadu.

The Indian economy is rapidly industrializing and expanding. This rapid expansion has however increased the hazard, risk and vulnerability to the industry and the environment. The potential to have Industrial emergencies are low in frequency but are very significant in terms of loss of lives, injuries, environmental impact and property damage. Frequency and severity of Industrial related emergencies has increased in last few years due to rapid increase in Industrial sectors like Pharmaceuticals, Chemical Industries, Automobiles, telecommunication, storage, processing, and transportation of petrochemical products, specifically in densely populated areas. Industrial related accidents can occur due to lack of safety measure, technical breakdown, or due to a human error.

A single incident can initiate a series of uncontrolled phenomenon such as large spills, fires and explosions. These eventually target humans, environment and infrastructure/property in the area and can be in the form of immediate and residual or long term consequences.

Thus, it is imperative to develop preventive measures like adoption of safer engineering practices, improved performance of safety devices and reduction of human errors by regular checks.

The government has also issued guidelines and laws for disaster management and mitigation. The Umbrella Act EPA, 1986 enacted after the incidence of Bhopal Gas Tragedy in 1984, and the rules MSIHC Rules 1989, EPPR Rules 1996, and PLI Act 1991, besides The Factories Act 1948 (amended thereafter) provided a systematic approach to disaster management framework at national, state, district and local levels, in the context of Industrial related accident management and emergency response.

This On-site emergency plan comply with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (As amended in 2000), The chemical Accidents (Emergency Planning, Preparedness & Response) Rules, 1996 (Rules 5,6,7,8 Schedules VII & VIII and Rules 9, 10, 11& 12) Based on these Guidelines, this Emergency management plan was developed.

The prime objective here is to ensure that the occurrence of hydrocarbon related accidents are minimized and the risks posed to life, environment and property are reduced. The Emergency management plan calls for a proactive, participatory, well-structured, fail-safe, and multi-disciplinary approach involving all groups and is aimed to strengthening the various mechanisms from stages of planning to field operations.

OBJECTIVE OF THE PLAN

An emergency is said to have risen when operators in the plant are not able to cope with a potential hazardous situation i.e loss of an accident causes the plant to go beyond its normal operating

conditions, thus creating danger. When such an emergency evolves, chain of events which affect the normal working within the factory area and /or which may cause injuries, loss of life, substantial damage to property and environment both inside and around the factory takes place and DISASTER is said to have occurred.

Various steps involved in Disaster management plan can be summarized as follows:

1. Minimize risk occurrence (Prevention)
2. Rapid control (Emergency response)
3. Effectively rehabilitate damaged areas (Restoration)

Disaster management plan is evolved by careful scrutiny and interlinking of

- Types and causes of disaster
- Technical Know-how
- Resource availability

Types of Disaster:

a. Due to Fire and Explosion
b. Due to vapor Cloud
c. Due to Toxic Gas release from
d. Hurricane, Flood, Cyclone and other natural calamities

The overall objectives of the emergency plan will be:

- To localize the emergency and, eliminate it; and
- To minimize the effects of the accident on people and property.

- Elimination will require prompt action by operations and works emergency staff using, for example, fire-fighting equipment, water sprays etc. Minimizing the effects may include rescue, first aid, evacuation, rehabilitation and giving information promptly to people living nearby.
- Synchronized action from all the coordinating agencies with least possible delay.
- Effective rescue operation and treatment of the causalities.
- To train the people to act efficiently and with confidence in an emergency.
- To bring back normal situation in the least possible time.
- To minimize its occurrence.

The following three staged activities are suggested as they are co-related and provide better points for emergency preparedness, emergency action and subsequent follow-up.

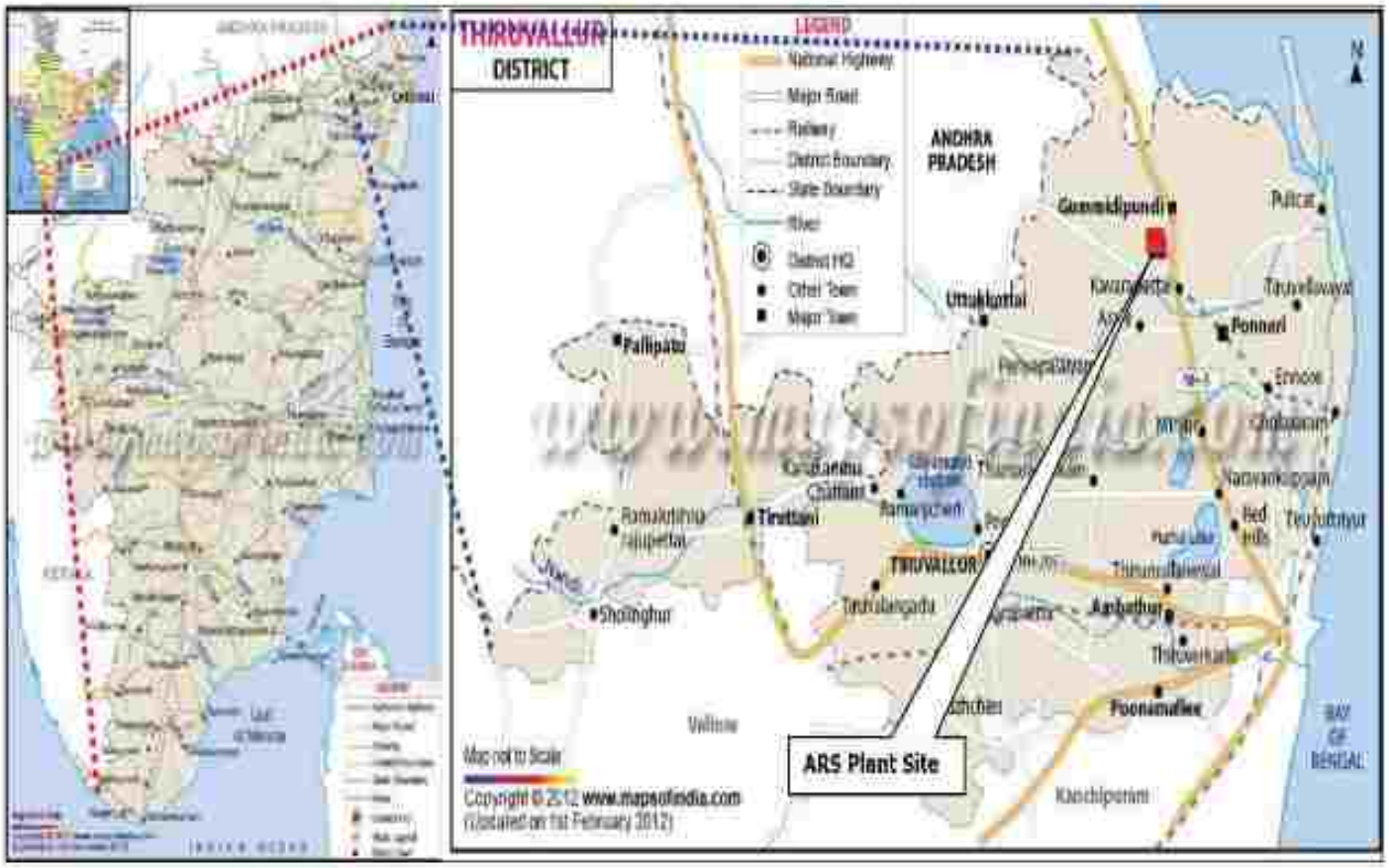
1. Pre- Emergency Activity
2. Emergency Time Activity
3. Post Emergency Activity

Description of site:

The plant is situated at SIPCOT Industrial Complex, Plot No. B-27 N, SIPCOT Industries Complex, Gummidipoondi, Thiruvallur District, Tamilnadu, India - 601201.The nearest highway to the plant is NH-5 which connects Guntur-Chennai at 0.7 km in East direction. The nearest Railway station to the plant site is Gummidipoondi Railway station which is located at a distance of 2.2 km in SE direction. The nearest airport is Chennai International airport at a distance of 46.7 km in South direction.

S.No	Particulars	Details		
1	Site Co-ordinates	S.No	Latitude	Longitude
		A	13° 41.588' N	80° 11.895' E
		B	13° 41.591' N	80° 12.051' E
		C	13° 41.702' N	80° 11.891' E
		D	13° 41.705' N	80° 12.041' E
2	Elevation above MSL	19 m		
3	Land use of the project site	Industrial Land use Zone (SIPCOT,Gummidipoondi)		
4	Nearest Highway	NH- 5 (0.7 km, East)		
5	Nearest Railway Station	Gummidipoondi R.S. (2.2 km, SE)		
6	Nearest Air Port	Chennai Intl. Airport (46.7 km, S)		
7	Nearest Sea Port	Ennore (30.3 km, SE)		
8	Nearest habitation	Kayalarmedu (0.4 km, NE)		
9	Nearest major town	Gummidipoondi (1.7 km, S)		
10	Ecologically sensitive zone	Pulicat Ecosensitive Zone (6.48 km, N)		
11	Reserved Forests	Puliyur forest R.F (6.8 km, W) Manali R.F (9.8 km, SW)		

12	State, National	Andhra Pradesh – Tamil Nadu (7.4 km, N)
13	Defence Installation/Historical Monuments	Nil in 10 km radius
14	Historical places	Nil in 10 km radius
15	Socio-economic factors	No resettlement and rehabilitation
16	Nearest river & water body	Thamarai Eari - 1.7 km, ESE Sri Amman Temple pond - 2.2 km, SSE Murugan Temple pond - 2.4 km, SE Siva Temple pond - 2.6 km, SSE Eddappalayam lake - 6.2 km, SE Pulicat lake - 6.39 km, NNW Rakkampalayam lake -7.1 km, NE Arani River -7.2 km, S Paatupalli lake - 7.6 km, E Poo-Vilambedu Pond - 8.5 km, W Kattavour Eari - 9.5 km, SE
17	Nearby Industries	1) M/s. Mitsuba India Private Limited 2) M/s. Xmold Polymers Pvt Ltd 3) M/s GP Sulphonates Pvt. Ltd
18	Nearby Fire Station	SIPCOT Fire Station (2.8 km, E)
19	Nearby Hospitals	1) ESI Hospital (1.66 km, ESE) 2) Frontier Mediville (1.70 km, SSE) 3) SDK Hospital (1.90 km, E) 4) Government Hospital, Gummidipoondi (2.48 km, E)


THIRUVALLUR
DISTRICT
LEGEND
National Highway
Major Road
Railway
District Boundary
State Boundary
River
District HQ
Other Town
Major Town
ANDHRA PRADESH
Gummidipundi
Pulicat
Uthukottai
Pallipattu
Ponneri
Tiruvallur
Ramakrishna Rajupettai
Shollinghur
Ambattur
Poonamallee
Vellore
Kanchipuram
ARS Plant Site
Map not to Scale
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(Updated on 1st February 2012)
BAY OF BENGAL
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Process Description

The conversion of iron scrap in to billets does not require any sophisticated technology. Various grades of scrap such as super melting scrap, bazaar melting scrap, commercial scrap, sponge iron are melted in electrically operated induction furnace and will be poured into the billets using a Continuous Casting Machine (CCM). Then the hot billets are directly fed into the rolling mill by Hot rolling technology.

Direct Hot Rolling Technology is one of the advanced production management technologies in steel sector, which represents awareness of green and energy-saving ideology. Contrary to the conventional process of storage and cooling of the billet, the sensible heat from the continuous-cast billets is utilized by charging them directly into the rolling unit.

In Direct Hot Rolling, the melt, tapped at approximately 1660-1700°C, is transferred to the continuous casting machine quickly without any significant heat loss and is poured into mould at around 1590°C. The melt is solidified and cooled down to a temperature of 1050 to 1100°C by PLC controlled water cooling and secondary direct spray cooling. The solidifying billet is cut immediately and is passed to the rolling mill, ensuring a minimal heat loss.

The whole operation is conducted at a particular temperature range and within a limited time span. The stages of rolling operation are comprised of heating of feed stock to rollable temperature, rolling the feeding stock in different mill stands, cropping the hot bar during the process of roiling between mill stands as applicable and subsequently finishing in form of hot rolled deformed bar in straight length. The hot bar coming

out of the last pass is then conveyed through a TMT line and collected in a cool bed after shearing. The bars at almost ambient temperature are sheared to commercial length, stored and kept ready for dispatch.

M/s. OP STEEL LIMITED., is committed to providing a safe and healthy workplace to all our employees and contractors, and to ensuring that all our activities contribute to the conservation and enhancement of the environment. To fulfill this, we are going to implement an Occupational Safety, Health and Environmental Policy.

By this policy, we strive to comply with India's Occupational Safety, Health and Environmental legislation and other related regulations and requirements; to promote and implement resource and energy conservation programs and practices to minimize the release of pollutants into our land, air and our waterways; to implement safety programs and measures to ensure the safety of all personnel involved in our activities; to train employees and contractors on the importance of environmental conservation and safe work practices, and their roles in complying with company rules and regulations; to work with our vendors and business partners towards realizing our safety policy; to ensure all accidents, work-related illnesses, diseases or near misses are reported and corrective measures are taken to prevent recurrence and to strive to prevent lost-time injuries or property damages due to accidents and Introduce healthy living programs to promote a healthy lifestyle amongst our employees.

No other source of adverse effects on occupational health & safety is likely to occur. However, MSDS of hazardous chemicals will be made

available with the management as well as concern personnel working with the materials or area likely to be affected by the materials. In general following are the key safety measure which has been adhered.

- ✓ Provision of all necessary equipment like portable detectors, online detectors, and other laboratory equipment are regular monitoring of workplace air and other conditions. (VOC, temperature, Humidity and Light Intensity).
- ✓ Compulsory use of necessary PPE's for all workers.
- ✓ Installation of fire extinguishers at required places.
- ✓ Regular workplace monitoring.
- ✓ Protection of Storage area.
- ✓ Separate area provision for container decontamination.
- ✓ Monitoring of occupational hazards like noise, ventilation , chemical exposure should be carried out at frequent intervals.
- ✓ Provision of proximity suits and self contained breathing apparatus.
- ✓ Display various instruction boards, cautionary notices etc. at different locations.

HAZARD ASSESSMENT AND RISK ANALYSIS

The hazard identification process must identify hazards that could cause a potential major accident for the full range of operational modes, including normal operations, start-up, and shut down, and also potential upset, emergency or abnormal conditions. The hazard identification process should reassess whenever a significant changes in operations has occurred or a new substance has been introduced.

Hazard identification and risk assessment involves a critical sequence of information gathering and the application of decision making process. These assist in discovering what could possibly cause a major accident, how likely it is that a major accident would occur and the potential consequences and what options there are for preventing and mitigating a major accident. These activities should also assist in improving operations and productivity and reduce the occurrence of incidents and near misses.

Industrial accidents result in great personal and financial loss. Managing these accidental risks in today's environment is the concern of every industry because the real or perceived incidents can quickly jeopardize the financial viability of a business. Many facilities involve various manufacturing processes that have the potential for accidents which may be catastrophic to the plant, work force and environment or public. The main objective of the risk management study is to propose a comprehensive but simple approach to carry out risk analysis and conducting feasibility studies for industries including planning and management of industrial prototype hazard analysis study in the Indian context.

Risk analysis and risk assessment provide details on Quantitative Risk Assessment (QRA) techniques used the world over to determine risk posed to people who work inside or live near hazardous facilities and to aid in preparing effective emergency response plans by delineating a Disaster Management Plan (DMP) to handle on-site and off-site emergencies. Hence, QRA is an invaluable method for making informed risk based process safety and environmental impact planning decisions, as well as being fundamental to any facility-sitting decision making. QRA whether site specific or risk specific for any plant is complex. It needs extensive study that involves process understanding, hazard identification, consequence modelling, probability date, vulnerability model/data, local weather, terrain conditions and local population data. QRA may be carried out to serve the following objectives:

- Identification of safety areas.
- Identification of hazard sources.
- Generation of accidental release scenarios for escape of hazardous materials from the facility.
- Identification of vulnerable units with recourse to hazard indices.
- Estimation of damage distances for the accidental release scenarios with recourse to Maximum Credible Accident (MCA) analysis.
- Hazard and Operability Study (HAZOP) in order to identify potential failure cases of significant consequences.

- Estimation of probability of occurrences of hazardous events through fault tree analysis and computation of reliability of various control paths.
- Assessment of risk on the basis of above evaluation against the risk acceptability criteria relevant to the situation.
- Risk mitigation measures based on engineering judgment, reliability and risk analysis approaches.
- Delineation/up-gradation of DMP.
- Safety Reports with external safety report/ occupational safety report.
- The Risk Assessment Report covers the following in terms of the extent of damage with recourse to MCA analysis and delineation of risk mitigation measures with an approach to DMP.
- Hazard identification: Identification of hazardous activities hazardous materials, past accident records etc.
- Hazard quantification: Consequence analysis to assess the impacts.
- Risk presentation.
- Risk mitigation measures.
- Disaster Management Plan.

Identification of Hazards

Identification of hazards in the proposed plant is of primary significance in the analysis, quantification and cost effective control of accidents involving materials and process. A classical definition of hazard stated that hazard is in fact the characteristics of system /plant/ process that presents potential for an accident. Hence, all the components of a

system/ plant/ process need to be thoroughly examined to assess their potential for initiating or propagating an unplanned event/ sequence of events, which can be termed as an accident. The following two methods for hazards identification have been employed in the study:

- Identification of major hazardous units based on Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 of Government of India (GoI Rules, 1989) and

- Identification of hazardous units and segments of plants and storage units based on relative ranking technique, viz. Fire-Explosion and toxicity Index (FE & TI). Details are given in EIA report. The brief of risk involved due to hazardous situation and the safety systems are given below:

Hazard Identification & Proposed Safety System

S.No	Plant Area	Causes	Consequences	Mitigation Measures
1.	Furnace Operation	Moisture containing scrap & recirculating water coming in contact with molten metal.	Steam Explosion	Usage of moisture free R.M Drying of R.M
2.	Transformer Area	Oil temperature build up Unsafe electrical installation Varying room temperature.	Sudden flashing of fire & bursting	Proper Electrical installation Transformer room temperature monitoring
3.	H.T electrical installation	Loose Fowls, cable cut, short circuits & burning of fuse	Sparks in the beginning & devastative fire if neglected	Properly laid cables & switches & fuse

4.	Extremely Hot Working area	Heat from Furnace, Unsafe clothing, seasonal factors e.g.temperature,pH & air movement	Heat Shocks	Rotation of workers Exhaust air ventilation Shielding from radiant heat
5.	Furnace & Moulding	Touching Hot Surface Splashing of molten metal Radiation	Burns	Providing specific PPE are to measures risk of manual operation Protective barriers to explosion
6.	Furnace & moulding	UV & IR radiation of high intensities from molten metal pouring	High Radiation	Safety education to workers Labelling of risky areas Providing suitable PPE

Exposure Limits

The exposure level of work zone concentrations are within the Permissible Exposure Level (PEL) as specified in Section 41F, Sch-II of Factories Act, 1948 (Permissible Level of certain Chemical Substance in Work Environment) and the OSHA standards for Permissible Noise Exposures which are reproduced below:

S.No	Duration per day in Hours	Sound Level dB(A) slow response	Remarks
1.	8	90	1. No noise environment excess of 115 dB (A) is to be produced. 2. For any period of exposure falling between any figures indicated in column I, the permissible sound level is determined by exposure.
2.	6	92	
3.	4	95	
4.	3	97	
5.	2	100	
6.	1½	102	
7.	1	105	
8.	½	110	
9.	¼ or less	115	

All effects shall be made to comply with the standards after the operation of proposed expansion.

Ambient Air Quality Standards in respect of noise:

Area Code	Category of Area	Level in dB (A) Leq	
		Day Time	Night Time
(A)	Industrial Area	75	70
(B)	Commercial Area	65	55
(C)	Residential Area	55	45
(D)	Silence Zone	50	40

Hazard Assessment & Evaluation

A preliminary hazard analysis shall be carried out to identify major hazards associated with storages in the facility. This is followed by consequence analysis to quantify these hazards. Finally the vulnerable zones are plotted for which risk reducing measures are deduced and implemented.

Before evaluating the environmental risks the following terms related to environmental risks are defined.

Term	Environmental Risks
Harm	Damage to person, property or the environment
Hazard	Situation that poses a threat to life, health, property or the
Risks	The likely hand of harm or harmful occurrence and its severity, Environmental risk is a measure of potential threats to the environment, life & property.
Consequences	Effect due to the occurrence of event endangering the environment temporarily or permanent.
Environmental Disorder	The consequences is so severe that it can extensively damage anyone or all the four components of environment namely: · Physiochemical · Biological · Humans & · Aesthetic

Environmental Risk Evaluation

Risk Analysis (RA) is a sort of scrutinizing vehicle for establishing the perversely in risk management that concerns human health and the environmental quality in general. Though the proposed facility is not manufacturing, storage or handling any potentially hazardous/toxic chemicals as scheduled in the MSIHC Rules 1989 and its subsequent amendments, the Risk Management measures for the proposed project are:

- The adaption of best safety practices.
- Incorporation in design and engineering facilities/protection measures for release to air, water, environment and land.
- Electrical safety by quick response circuit breakers.
- Adequate fire protection system.

Frequent Causes of Accidents

- Fire and explosion, explosives, flammable material.
- Struck by falling objects.
- Snapping of cables, ropes, chains & slings.
- Handling heavy objects.
- Electricity (electrocution).
- Poor illumination.
- Falls from height inside industrial units or on the ground.
- Struck by moving objects.
- Slipping on wet surfaces.
- Sharp objects.

- ❖ Oxygen deficiency in confined spaces.
- ❖ Lack of personal protective equipment (PPE), housekeeping practices Safety signs.
- ❖ Hackles, hooks & chains.
- ❖ Cranes, winches, hoisting and hauling equipment.

Physical Hazards

- Noise.
- Extreme temperatures.
- Vibration.

Hazardous Substances & Wastes

- ✓ Heavy and toxic metals.
- ✓ Organo metallic substances.
- ✓ Lack of hazard communication (storage, labelling, material safety data sheets).
- ✓ Fire-fighting liquids.
- ✓ Welding fumes.
- ✓ Volatile organic compounds (solvents).
- ✓ Inhalation in confined and enclosed spaces.
- ✓ Physical hazards.
- ✓ Noise.
- ✓ Extreme temperatures.
- ✓ Vibration Radiation.
- ✓ (UV, radioactive materials).

Mechanical Hazards

- Trucks and transport vehicles.
- Scaffolding, fixed and portable ladders.
- Impact by tools, sharp-edged tools.
- Power-driven hand tools, saws, grinders and abrasive cutting wheels.
- Failure of machinery and equipment.
- Poor maintenance of machinery and equipment.
- Lack of safety guards in machines.
- Structural failure.

Ergonomic & Psychosocial Hazards

- ✓ Repetitive strain injuries, awkward postures, repetitive & monotonous work, excessive workload.
- ✓ Long working hours, shift work, night work, temporary employment.
- ✓ Mental stress, human relations (aggressive behaviour, alcohol and drug abuse, violence).
- ✓ Poverty, low wages, minimum age, lack of education and social environment.
- ✓ General Concerns
- ✓ Lack of safety and health training.
- ✓ Poor work environment.
- ✓ Inadequate housing and sanitation.
- ✓ Inadequate accident prevention and inspection.
- ✓ Inadequate emergency, first-aid and rescue facilities.
- ✓ Lack of medical facilities and social protection.

Major Hazards

Induction Furnace

- ✓ Moist scrap being charged may cause explosion.
- ✓ Cooling water in contact with molten metal may cause explosion.
- ✓ Radioactive scrap being charged liberates extremely harmful radiation.
- ✓ Explosive material present in scrap may cause explosion.

Continuous Casting Machine

- Spillage of molten metal can occur resulting in damage to mechanical and civil structures, electrical cables and hydraulic equipments.
- Prevention and Control of Fire and Explosion
- Operational staff is being and shall be trained for safe work practices.
- Risk assessment to consider the potential impact of explosion in and outside the plant.
- Regular safety audits shall be undertaken.
- Refractories shall be preheated and dried before use.
- Scrap will be inspected, shredded and cut to size before put to use.

Nature of Hazards

Equipment/Process	Associated Hazard
Induction/LRF	Hot metal spillage/ steam and fire explosion
Continuous Casting Machine	Hot metal spillage
Rolling Mill	Hot metal spillage
Electrical rooms	Fire and Electrocution
Transformer area	Fire and Electrocution

Possible Hazards & Risks from Secondary Metallurgical Industries

The various process operations, which are having potentially high risk to human exposure and which have high levels of attention area identified in Table

Possible Risk

S.No	Plant Area	Possible Deviation from normal operation	Likely Causes	Consequences
1	Furnace	Re-circulating and cooling water coming in contact with the molten iron or slag.	Leakage of water from the walls Spurting of metal/slag	Explosion under extreme cases.
		Presence of Oil & Grease and other Impurities in raw materials.	Fire	Sudden fire & flames
2	High Power Transformer	Oil temperature being very high.	Varying room Temperatures.	Sudden flashing of fire
3	High Tension Electrical Installation	Heavy sparking at the pot heads and the joints.	Loose joints, cable cut, burning of fuses, short circuits etc.	Sparks in the beginning, devastating fire if neglected.

Specific Hazard & their Control

S.No.	Hazard	Reason	Control Measures
1	Molten Metal Explosion - Steam Explosion - Chemical Explosion	- Use of oxidized or rusted iron. -Damp refractories or tools. -Containers of aerosols mobile & phone batteries. -Accidentally mixing of oxidizing substance e.g. KNO3 (NH4)2NO3 in furnace. -Incorrect combination/ ratio of metals being processed.	- Checking the refractories moisture & strategies for pre-heating the furnace & the refractories. - Proper storage system to ensure against accidental use and outside the excessive heat area. Storage paints, solvents and other combustible material specially.
2	Heat Stress	- Working in extreme hot condition.	- Shielding heat radiations from hot surface. - Supply of clean drinking water - Educating workers about the symptoms of excessive heat exposure. - Short breaks & rotation of workers.

3	Burns	- Splashing of molten material - Touching of hot surface - radiation	- Providing specific PPE's - Providing protective barriers to minimum exposure. - Proper design & Process Control. - Automation to minimize risk associated with material handling or casting.
4	Light Radiation	- UV & IR radiations of high intensity from molten metal especially the pouring areas.	- Educating the workers regarding risks and safety measures. - Proper labelling of risky areas w.r.t radiation. - Shielding of workers and providing proper PPE's.

First Aid Measures

Following first aid measures will be taken:

a. Eye Contact: Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions and burns.

b. Skin Contact: Wash with cool water and a pH neutral soap or a milk skin detergent. Seek medical attention for rash, burns, irritation and dermatitis.

c. Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms.

d. Ingestion: Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention.

Exposure Controls & Personal Protection

Exposure Controls

- Control of dust through implementation of good housekeeping and maintenance.

- Proper fume and dust extraction system to control fume/dust emission in work zone.

- Use of PPE, as appropriate (e.g. masks and respirators).

- Use of mobile vacuum cleaning systems to prevent dust build-up on paved areas.

Personal Protective Equipment (PPE)

- Respiratory Protection: When the dust level is beyond exposure limits or when dust causes irritation or discomfort use respirator.
- Eye Protection: Wear Safety goggles to avoid dust contact with the eyes. Contact lenses should not be worn when handling the materials.

- Skin Protection: Wear impervious abrasion and alkali resistant gloves, boots, long sleeved shirt, long pants or other protective clothing to prevent skin contact.

Fire Fighting Facilities

- Keeping in view the nature of fire and vulnerability of the equipment and the premises, following fire protection facilities have been envisaged for the plant.

Hydrant System

- Internal hydrants will be provided in all major plant units at suitable locations and in different levels inside the plant buildings. Internal hydrants will also be provided for conveyor galleries. Yard

hydrants will be provided in the vicinity of each plant unit, normally along the road to meet the additional requirement of water to extinguish fire.

Portable Fire Extinguishers

All plant units, office buildings, laboratory, welfare buildings, etc. will be provided with adequate number of portable fire extinguishers to be used as first aid fire appliances. Sufficient quantities of the following extinguishers will be provided at strategic locations in the plant.

Other Safety Measures

- ✓ Safety training to the workers will be given.
- ✓ PPE will be provided to the workers.
- ✓ The maintenance and cleaning of bag filters will be carried out regularly.
- ✓ The dust removal efficiency of bag filters will be check regularly.
- ✓ Work place environment monitoring will be carried out regularly and records will be maintained.
- ✓ Good housekeeping will be implemented in the plant.
- ✓ First aid box will be provided.
- ✓ The industry will provide adequate lighting facility inside the plant premises.

- ✓ General ventilation will be provided to control dust levels below exposure limits.
- ✓ Fire extinguishers will be provided to withstand the fire or explosion condition.
- ✓ Pre-employment and periodical medical examination of workers will be done by government approved medical practitioners and the details will be recorded as per the Regulations.
- ✓ The industry will prepare on-site emergency plan.
- ✓ In case any emergency, arrangement of ambulance van will be done from nearest Hospital.
- ✓ Two main gates will be provided for entry and exit of the workers.

Disaster Management Plan (DMP) Disaster

Disaster is an unplanned event that can cause death or significant injuries to employees, customers or public. It is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering. As a result, they need protection, clothing, shelter, medical, social care and other necessities of life.

Disasters can be divided into two main groups, namely, natural and manmade. There can be no set criteria for assessing the gravity of a disaster, since this depends to a large extent on the physical, economic and social environment in which it occurs. However, all disasters bring in similar consequences that call for immediate action, whether at the local, national or international level for the rescue and relief of the victims.

Objectives of Disaster Management Plan

Disaster Management Plan (DMP) is the process of preparing for mitigating measures, responding to and recovering from an emergency. The DMP is aimed at ensuring safety of life, protection of environment, protection of installation, restoration of production and salvage operations, in this same order of priorities. For effective implementation of the DMP, it should be widely circulated and personnel training should be provided through rehearsals/ drills.

The DMP should reflect the probable consequences of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on available and reliable information, incident data from internal and external sources, and, if necessary, the reports of outside agencies.

The objective of the industrial DMP is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of causalities.
- Safeguard other people.
- Minimize damage to property and the environment.
- Initially contain and ultimately bring the incident under control.
- Provide authoritative information to the news media.
- Secure the safe rehabilitation of affected area.

- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the emergency.
- In effect, it is to optimize that the operational efficiency to rescue, rehabilitate and render medical help and restore normalcy.

Emergency Plan

Emergency planning is primary for the protection of plant personnel and people in nearby areas and the environment that could be affected by unplanned hazardous events. The emergency may arise from the leakage, explosion caused by over pressure in equipment, chemical storage and handling, fire due to combustible material and social disorder.

Furnace Hazard

Furnaces are associated with fire and electrical hazard due to sudden generation of pressure or temperature that leads to damage, injury and death. Temperature and pressure are closely related, and when flammable or combustible mixture is present in process equipment that leads to worst consequences. Thus, an engineering evaluation will be done for worst-case scenario.

Safety Measures

- Installation of automatic alarm.
- Explosion suppression system with detector technique and suppressant.
- Means of shutting off the power and raw material supply.
- Standard Operating Practices (SOPs) for starting sequence of furnace should include along with checkup for exhaust system prior to ignition
- Piping, valves and fitting should be metallic and be in accordance with NFPA-30.
(Flammable & combustible liquid code)

Fire & Explosion

Fire consequences can be disastrous, since they involve high voltage current and huge quantities of raw material with fuel either stored or in dynamic inventory in conveyors or hoppers or in nearby areas. Toxic releases can affect persons working around.

Preliminary Hazard Analysis has provides a basis for consequence estimation. Estimation can be made by using various pool fires, tank fire consequence calculations.

During the study of Risk Assessment, the nature of damages is worked out and probability of occurrence of such hazards is also drawn up. The aim

of DMP is to introduce the pragmatic guidelines for safe storage and warehousing of hazardous/ combustible materials, thus protecting human health and environment. The following control/ mitigating measures should be adopted.

- Eliminate all sources of ignition. However, it is difficult to ascertain.
- All the sources of ignition, especially if there are any moving parts.
- DCP type extinguishers are recommended.
- All emergency and safety related equipment must be frequently and regularly checked and maintained to ensure that their condition is satisfactory. Records should be kept of all checks and maintenance carried out on this equipment.
- The necessary first aid equipment should include emergency showers and eyewash facilities.
- The firefighting media should be selected according to mode of action and their use in combating or preventing the spread of fire. It may be water, dry chemical powder, carbon dioxide and foam.
- Extinguishers should be fitted with means to provide visual indications that the unit has partially or wholly been discharged.
- A fire detection alarm and automatically activated CO or equal fire suppression system should be provided in the electrical room.

EMERGENCY PREPAREDNESS ACTION & MITIGATION PLANS

TYPES OF EMERGENCIES

Onsite Emergency

If an accident/incident takes place in a factory, it affects are confined to factory premises, involving only the persons working in the factory and the property inside the factory is called as On-site Emergency.

Major emergency which may or may not cause material damage or injuries and likely to have impact on entire operation of the factory. Such Emergencies may be controlled using resources within the factory and resources available in the surrounding establishments, public and private fire brigades.

Off-site Emergency

If the incident/accident is such that it affects inside the factory are uncontrollable and it may spread outside the factory premises, is called Off-site Emergency.

PROBABLE EMERGENCY SCENARIOS

Probable Emergencies due to our operations could be

- Fire
- Explosion
- Spillage of Hazardous material

Probable Emergencies due to natural calamities and External Factors

- Earthquake
- Storms
- Lightning strike.
- Bomb Threat

EMERGENCY CATEGORIZATION

Emergencies are categorized with a view to assess the likely severity of emergencies, resources required to control such emergencies, both on-site and elsewhere and also for transportation emergencies. Emergencies identified under fire, explosion are based on the risk analysis study. A brief description of each such major emergency is given in the subsequent parts of this section.

Category - I

Minor emergencies which may or may not cause damage or injuries within any plant/section of the factory and which are not likely to develop to a magnitude that warrants evacuation of the personnel from the plant/section of the factory, and can be controlled effectively using the resources within the factory.

Category -II

Major emergencies which may or may not cause damage or injuries within any plant/section of the factory but are likely to develop or have developed to a magnitude that warrants evacuation of personnel from the plant/section of the factory, and can be controlled effectively using resources within the factory.

Category - III

Major emergencies which may cause material damage or injuries and likely to have an impact on entire operation of the factory. Such emergencies may be controlled using resources within the factory and resources available in the surrounding establishments.

Category - IV

This type of major emergency is likely to have an impact on a large geographical area perhaps involving the entire Area. Resources from central and state governments, civilian defence facilities may be required to control such emergency. During such emergencies, the management has to co-ordinate with district emergency authorities to initiate action as per off-site emergency plan apart from initiating actions as per its on-site emergency management plan.

The purpose of the On-site emergency plan is to provide guidance to personnel based at the site who are appointed to the Emergency Response Team (ERT) on the actions to be taken in the event of an incident or emergency. It details the procedures to be followed by members of the ERT to ensure a prompt and efficient response, should an incident or emergency situation occur. ERT organizations are staffed by site personnel who are assigned and trained in their respective emergency roles and responsibilities.

The ERP is complemented by the OP STEEL LIMITED., Fire Contingency Plan the necessary details, data and tactical procedures to enable facility based personnel to expeditiously deal with fire related emergencies in their early stages. The Incident Response Team will be composed of

Managers, Supervisors and personnel based at the site who will be on call at all times while on location for their tour of duty. Personnel who form an ERT will be informed of their responsibilities and trained in their role.

If an incident or emergency situation develops, the site ERT will be mobilized, and depending on circumstances at the time, resources from adjacent facilities will be called upon to provide assistance.

M/s. OP STEEL LIMITED., ensured through training / information that any person of the staff give brief and precise warning message indicating the place, type and seriousness of the accident, whenever he is witness to an abnormal initiating event. Depending on the nature and magnitude of the event and local condition such as meteorology, geographical layout, population distribution and accessibility, the important aspect to be considered is the type or level of an emergency.

ORGANIZATION

Emergencies very rarely occur as such they are not a day to day activity or a planned activity which a fixed time schedule. The activities during the emergencies are to be coordinated and this could be achieved by an organizational approach, which has quid response capabilities.

This organization is capable of quick response any time of the day or night to meet the disasters. The emergency response coordination is critical to the protection of properties and lives of the workers and community.

Emergency Response Team (ERT)

S.NO	CONTACT PERSON	ROLES AND RESPONSIBILITY
1	FACTORY MANAGER	Site Main Controller
2	HR MANAGER	Communication & Rescue Officer
3	SAFETY OFFICER	Incident Controller
4	SECURITY OFFICER	Fire Fighting Officer / Technical Officer
5	PRODUCTION INCHARGE / FACILITITY DEPT	Head Count Team Coordinator / Rehabilitation officer

CHAIN OF COMMAND

The duties and responsibilities of each individual coordinator are fixed such that the action is taken with logical approach. If any changes are to be made in the procedure, or in actions, the front end area coordinator should be able to respond in logical fashion. To achieve the above a chain of command is created with tiered structure that the supervisors can take a few independent decisions to achieve the overall objectives.

NOTICING & REPORTING EMERGENCY

The emergency in a plant may be noticed by a worker on the shop floor, or a security guard on his rounds or in fact by anyone else in the factory.

The person noticing the emergency should first inform to the security and then to Incident Controller of the particular shift who would be available in the factory. The security in turn will inform to the senior persons responsible for managing the emergency by phone or through a messenger and shift in-charge also would assess the situation and if the emergency is a major one falling under any of the categories other than category - I, will inform by phone or through a messenger to a senior person responsible for managing the emergency. This person, for the purposes of emergency plan, is designated as Incident Controller.

Incident Controller will manage emergency from the Emergency Control Centre. In the Night or after office hours Shift In- charge acts as Incident Controller.

DECLARATION OF EMERGENCY

During the General shift, the Site Main Controller has the authority to declare the major emergency (category-II to IV). During the Holidays, Weekly Off, Second Shift operations when the SMC is not available at the plant, then Shift Supervisor has the responsibility and authority to declare a major emergency based on his assessment. Major emergency is declared by sounding the siren.

The siren is an indication to the workers of the plant that an emergency situation has arisen and if so directed they may have to shut down the plant and move towards pre designated safer areas viz. Assembly Points (AP).

CONTROLLING THE EMERGENCY

The emergency operations are mainly controlled by the Site Main Controller (SMC). The SMC would be Head of the unit and in his absence deputies will be Incident Controller or Security Officer.

He will

- Direct the following emergency teams constituted for the purpose and monitors their work.
- Fire fighting Team
- Medical Team
- Evacuation cum Rescue Team
- Facility Support team
- Communication Team
- Security Team
- Rehabilitation Team
- Coordinates the work of external agencies such as fire brigades from mutual aid scheme, public fire services, external experts, etc. at the site of the incident.
- Provides feedback on progress to the SMC and also
- Organize for plant shut-down and evacuation when needed.
- The SMC will decide on the need for plant shutdown and evacuation and will guide the IC as necessary in emergency control operations.

EMERGENCY ORGANIZATION ROLES AND RESPONSIBILITIES

Site Main Controller:

- The Site Main Controller is responsible for activating the emergency plan and assuming overall command during the emergency situation.
- Immediately arrange for an informal on-spot meeting of the members preferably at the emergency control room to take stock of the situation and initiate necessary measures.
- Take on-spot decision on the steps to be adopted based on the type and extent of the emergency and authorize Emergency Response Team (ERT) members and other personnel to execute the specified tasks as decided in the on-spot meeting
- The Site Main Controller is responsible for assessing the emergency situation and coordinate the activities among other functions of emergency response organisations.
- The Site Main Controller is empowered to take any decision to mitigate the emergency situation like deploying additional resources, make immediate purchases etc.
- The Site Main Controller shall arrange all the required facilities through for the necessary medical aid, manpower, money, conveyance etc.
- The Site Main Controller shall be responsible for overall control of emergency situations and shall take decisions on shutdown/restart of the operations considering the degrees of risk and business continuity options.
- The Site Main Controller shall review the emergency situation either directly or through Incident Controller, initiate "Emergency Evacuation" and direct Plant Protection Team Coordinator to blow

"Emergency Siren".

- The Site Main Controller shall initiate and direct Communication Officer for getting external support if needed.
- The Site Main Controller shall be the spokesperson for any external communication during any emergency.
- The Site Main Controller will review the emergency and report to the senior management team on the same.
- The Site Main Controller declares "All Clear Signal" after ensuring the situation is safe and direct Plant Protection Team Coordinator to blow "All Clear Siren".

Alternate Emergency Response Controller:

- In the absence of Site Main Controller, Alternate Emergency Controller will assume the responsibilities of Emergency Response Controller.
- If Site Main Controller is not available assist him in performing the response actions.

Incident Controller:

- On receiving information about the emergency situation, Incident Controller shall try to communicate Fire Fighting Team Coordinator, Evacuation / Rescue Team Coordinator and First Aid Team Coordinator to mobilize their respective team members to incident spot / location.
- Access the magnitude of the incident either by direct witness or through the team members and pass the communication and situation status to Incident Controller.
- If the emergency situation is uncontrollable, advise the team to initiate "Emergency Evacuation".

- Direct the Fire Fighting officer to use the Fire Fighting Team member and contain the fire if it is safe to do so.
- If the situation is unsafe or "Emergency Evacuation" is declared, direct the Evacuation/Rescue officer along with his team to assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- Monitor the situation continuously and pass the communication to Site Main Controller.
- Direct rescue officer and his team to assist the injured person, if anyone found injured.
- Coordinate with rehabilitation officer and ensure that all employees reached "Safe Assembly Point".
- If in case of missing person after head count, direct the rescue team to search for the missing person, if the situation is safe to do so.
- Be vigilance and wait at the "Safe Assembly Area" for further communications.
- In the absence of Site Main Controller and Alternate Site Main Controller, Incident Controller will assume the responsibilities of Site Main Controller.

<u>Alternate Incident Controller</u>

- In the absence of Incident Controller, Alternate Incident Controller will assume the responsibilities of Incident Controller.
- If Emergency Response Coordinator is available assist him in performing actions during emergency situation.

Fire Fighting Officer

- On receiving information about the emergency situation, Fire Fighting officer shall take Fire Fighting Team Members to incident spot / location.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller, try to extinguish the fire, if it is safe to do so, along with the Fire Fighting Team with the available fire fighting equipment.
- In the absence of Communication officer and Alternate Communication officer, Fire Fighting Officer will assume the responsibilities of Communication Officer.

Fire Fighting Team Member

- On receiving information about the emergency situation, reach the incident spot along with Fire Fighting Officer.
- Act as per the instruction from Fire Fighting officer.
- Assist the Fire Fighting Team officer to extinguish the fire, if it is safe to do so, along with the Fire Fighting Team with the available fire fighting equipment.

Medical & First Aid Team

- On receiving information about the emergency situation, First Aid Team shall take First Aid Team Members to incident spot.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller administer first aid to the injured, assisted by First Aid Team.

Rescue Officer

- On receiving information about the emergency situation, Evacuation/Rescue Officer shall take Evacuation/Rescue Team Members to incident spot / location.
- Act as per the instruction from Incident Controller.
- As directed by Incident Controller, along with Evacuation / Rescue Team Members, search if any person is injured / needed aid.
- If the situation is unsafe or "Emergency Evacuation" is declared, support the Evacuation / Rescue officer along with his team to assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- If in case of missing person after head count, search for the missing person, if the situation is safe to do so, along with Evacuation / Rescue Team Member.

Evacuation / Rescue Team Member

- On receiving information about the emergency situation, reach the incident spot along with Evacuation / Rescue officer.
- If the situation is unsafe or "Emergency Evacuation" is declared, assist the employees in evacuating the shop floor and reaching the "Safe Assembly Point" safely.
- If in case of missing person after head count, search for the missing person, if the situation is safe to do so, under the direction of Evacuation / Rescue officer.

Technical Officer

- On receiving information/communication about the emergency situation, Technical Officer shall take plant protection team to the incident spot/location and try to initiate safe shut down of the affected area or the whole plant if it is safe to do so.
- Pass the communication about the power isolated areas to Incident Controller or Site Main Controller.
- Be in contact with the Incident Controller and assist them in containing the emergency situation.
- Direct the Plant Protection Team to initiate "Emergency Siren" on receiving "Emergency Evacuation" nod from Incident Controller.
- Ensure that Plant Protection Team members reach "Safe Assembly Area".
- Direct the Plant Protection Team to initiate "All Clear Siren" on receiving "All Clear" nod from Emergency Response Controller.

Head Count Team Coordinator / Rehabilitation officer

- On receiving information/communication about the emergency situation, Head Count Team Coordinator shall take Head Count Team Members to the incident security gate and collect head count details.
- Direct Head Count Team Members to "Safe Assembly Point" with the head count details and wait for further communication.
- If "Emergency Evacuation" is declared assist the employees reaching the "Safe Assembly Point" to stand in order and start head count.
- If any person is reported "Missing" Head Count Team Coordinator shall communicate the same to Incident Controller and Site main controller.

- Coordinate with Incident Controller and Site main controller and ensure that all employees area available/reported at "Safe Assembly Point".
- Upon receiving the "All Clear Siren" , Head Count Team Coordinator signal to the people to disburse from the assembly point.

Emergency Preparedness

- All Risks will be continually monitored in order to minimize the potential of an emergency.
- The Safety of personnel is foremost.
- Emergency Plans are formulated and reviewed in consultation with ERT Members.
- Plans are to be simple but effective.
- A central control is always available.
- Emergency attending personnel are required to be trained in their appointed duties.
- All personnel are regularly trained in appropriate response procedures.
- Emergency drills shall be conducted at least once in 6 months
- Records of tests and drills are maintained by HR Manager .
- Where practicable and appropriate, the participation of external emergency services in emergency drills should be encouraged
- Methods to respond to, mitigate and prevent incidents that require an Emergency Response shall be amended as required.

Reporting to Regulatory Authorities

- All reports to statutory authorities shall be deal by the Human resources or the person delegated by him/her for this purpose.

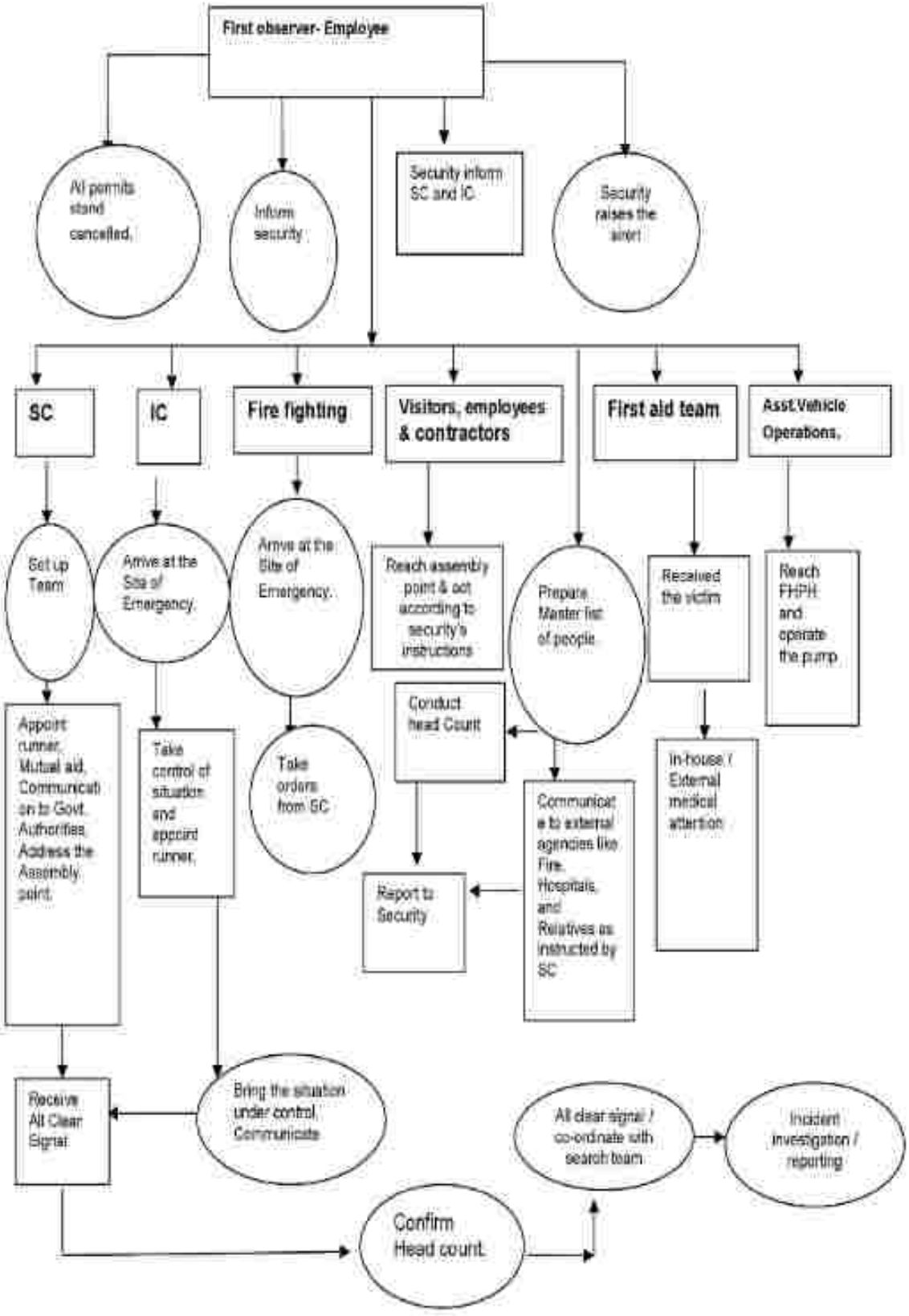
External Communication and Press Release

- Any external communication and press release about the emergencies shall be handled by the senior management team.

Investigation of Root Cause

- Investigation of the incident and identifying the root cause shall be initiated by the unit head by forming a team comprising the concerned department and the others as per procedure.

Emergency flow chart



Do's and Don'ts for Emergency Vehicle Driver

Do's

- Immediately start vehicle and reach rescue squad assembly point.
- Rescue squad members to emergency site.
- Take vehicle near to emergency site as directed.
- Take note of wind direction.
- Keep vehicle engine running.
- Always be on Driver's seat of the vehicle.
- Take the injured to the hospital as directed.

Don'ts

- Do not leave the vehicle.
- Do not take the vehicle very near to the site.

EMERGENCY MANAGEMENT INFRASTRUCTURE

Emergency Control Centre (ECC)

The Emergency Control Room located in the Admin office. The following infra-structural facilities will be available in the Emergency Control Room:

- P & T Telephones;
- Intercoms;
- Local Area Plan;
- Predominant wind direction and velocity charts;
- List of Fire Extinguishers
- Emergency Control Numbers List;

- Fire Suit;
- Breathing Apparatus Set;
- Face Masks;
- Emergency Lights;
- First Aid Items;
- White Board with Marker Pens;
- Sufficient numbers of Emergency Plan copies and
- Mega phone.

Assembly points

- Located well away from plant and equipment and nearer to exit of plants.
- To be conspicuously displayed.
- Assembly points are marked opposite to admin building.

Escape routes

- To lead away from each occupied area in plant towards assembly points
- Arrow markings were done along the route

Emergency Siren

Emergency siren has been provided with 1.0 KM range of audibility .The siren will operate on regular supply and also an emergency electrical supply.

Wind Sock

Wind socks to observe the wind directions installed on the top of the building.

DETAILS OF SYSTEM

(Warning / Alarm / Safety / Security / Sensor & Control System / Structural Design / Maintenance / Surveillance)

Warning, Alarm, Safety and Security Systems

The smoke detection sensor provided in all over the plant is set to raise alarm audible outside the plant. A security guard mans storage yard round the clock and unauthorized entry is restricted. Special precautions are taken during unloading like the standard precautions for parking a flammable container truck and removing ignition keys are followed.

Alarm and hazard control plans in line with disaster control and hazard control planning, ensuring the necessary technical and organization precautions

A manual hooter is available with the security office to be used during emergency and in situations when other events may need for evacuation of personnel. All the equipment in plant are serviced regularly by well-experienced maintenance.

Precautions in designing of the foundation and load bearing parts of the building

All constructions have been designed and installed by recognized engineering organizations as per good engineering practices. All necessary precautions have been taken regarding the designing of the foundation and load bearing parts of the buildings.

Continuous surveillance of operations

Qualified, experienced and well-trained personnel are available round the clock in three shifts. They take care of the continuous surveillance of all operations.

Maintenance and repair work according to the generally recognized rules of good engineering practices

Effective predictive and preventive maintenances are adopted in the plant to prevent equipment failures.

EMERGENCY PROTECTION FACILITIES

Fire protection system

Fire Protection system has been installed as per Tamil Nadu factories rule. The details of fire hydrant system as given in annexure.

Portable Fire Fighting Equipment's

Adequate numbers of DCP/CO2 extinguishers are provided at strategic locations and all extinguishers are clearly visible and easily accessible. The extinguishers are installed in such a way that the top of the extinguisher does not exceed 1.5 mts from the ground level.

The travel distance to any extinguisher in process area does not exceed 15 mts where as in the offsite area it does not exceed 30 mts as per OISD.

Fire extinguisher

The company has trained personnel for fire fighting and its intends to improve the fire fighting skills of their employee by conducting training on Fire fighting. There are portable fire extinguishers and the emergency response team who were trained in fire fighting is given in annexure.

EMERGENCY ACTIONS DURING NATURAL CALAMITIES

(Tsunami/ flood/ earth quake/storm)

Response

- Communication Officer will confirm the Information about the Natural Calamity with the Onsite Main Controller and he will inform to the Incident controller.
- Communication Officer will inform to all emergency coordinators.
- Communication Officer will inform to all employees in the plant in consultation with the Incident controller to assemble them in nearby Emergency shelters and Safe Assembly Points.
- Safety and fire coordinator must ensure the evacuation of persons to safe assembly point from the incident area and ensure the necessary arrangements through fire crew and emergency teams for engaging fire fighting/ rescue operations/ de-watering/ evacuations etc., and report to incident controller time to time to bring the situation under control.
- Communication Officer will inform the number of persons inside the plant to the Facilities Coordinator, Transport Coordinator and Medical coordinator.
- Facilities coordinator will arrange the additional facilities required for

the number of persons in the plant and he will inform the status to the Incident controller.

- Transport coordinator will arrange adequate Transport Facilities to evacuate the persons in the plant at that time and he will inform the status to the Incident controller.
- Medical coordinator will arrange adequate medical facilities to tackle the situation and he will inform the status to the Site emergency controller.
- Requirement to be evolved by the Transport coordinator and Facilities coordinator for additional transport and other facilities.
- Additional facilities will be arranged by the Transport coordinator and Facilities coordinator from the industries in Mutual Aid.
- Response Team Leader will ensure adequate number of Technical persons in plant for Safe Shutdown and he will inform the status to the Site emergency controller.
- Facility support team leader will ensure the availability of Power for Safe shutdown and Safe evacuation.
- Incident controller and Security coordinator will ensure that all Hazardous storage facilities and Installations are rendered safe and secured.
- Communication Officer will have liaison with the Deputy emergency coordinator to monitor the status continuously and will inform to the Incident controller.
- Requirement of the shutdown of the plant will be decided by response team leader in consultation with the Incident controller through Communication Officer.

- If required safe shutdown of the plant will be ensured by the response team leader.
- Location of the Safe assemble point and escape route for safe evacuation will be decided by the Transport and Security coordinator in consultation with the Incident controller.
- Safe evacuation of the people will be ensured by the Transport coordinator and security coordinator as per the Priority and Importance.
- In case of flood ensure the more no of fire tenders/ fire pumps from mutual aid factories, Govt agencies for de watering by safety and fire coordinator.

PRECAUTIONARY MEASURES TAKEN AND FOLLOWED DURING PANDEMIC SITUATION IN OUR FACTORY

We are hereby confirming that we have taken the following precautionary measures during the COVID-19 pandemic situation in our manufacturing facility.

- Body temperature is being tested for all the personnel while entering the factory premises and records are maintained.
- Blood Oxygen Level is being checked for all the personnel while entering the factory premises and records are maintained.
- Facemask is being given to all the personnel while entering the factory premises and ensuring all are wearing facemask within the premises

- A face shield is being given to employees in the workplace wherever required.
- Foot-operated hand sanitizing dispensers are placed in and around the workplace and these dispensers are regularly refilled
- Vehicle disinfection is being done while entering the factory premises.
- Social distancing is being followed while entering factory premises and all other areas.
- Acrylic partitions in the workplace and canteen are being done to maintain social distancing.
- Foot-operated water valves are placed in restrooms and dining areas.
- Restrooms are being disinfected once in two hours.
- Factory premises and workplaces are being disinfected twice a week by the external service provider.
- Workplaces are being disinfected every day after the completion of shift.
- Work From Home option is extended to employees to reduce the headcount.
- Kabasura Kudineer and Inji Kasayam are being given to all employees on alternative days.
- Pedestal fans are arranged to avoid the usage of air-conditioners.
- Windows and doors are opened whenever possible to ensure the venue is well ventilated.
- Running the factory operation with a limited number of employees as per the government guidelines.

- No migrant-workmen added newly during the pandemic situation.
- Pre-employment medical is being done for all the recruits.
- Ensuring workplaces are clean and hygienic.
- Surfaces and objects are wiped with disinfectant regularly.
- Continuous leaves of employees are being monitored and maintained.
- If someone feeling sick, they are advised to take leave and monitor themselves for symptoms for a minimum of 14 days.

If someone quarantined for 14 days, they advised to submit the RTPCR test report a day before reporting back to the office.

RECOVERY PROCEDURE

The procedures outlined in this section are intended for re-established normal operations at the earliest after an emergency. In addition, the procedure also provides for determining the cause of the accident, so that such incidents can be prevented in future.

This section is divided into five parts:

1. Incident investigation.
2. Establishing a recovery team.
3. Damage Assessment.
4. Clean up and restoration.
5. Post-Emergency and Recovery Reporting.

Deputy General Manager will arrange to organize suitable teams for the above tasks.

Incident Investigation

Incident investigation should be taken up to determine the cause of the emergency and means of preventing any such occurrences again.

Procedure

The investigation team should immediately seal off the incident scene and commence it's investigation to minimize the loss of any physical evidence.

The investigation of the scene should include,

1. Photographing the area.
2. Determining the point of origin of the Fire/Leak/Explosion, if applicable.
3. Note the position of valves, controls and devices.
4. Notes any unusual items in the area or any damage that is inconsistent with the type of incident.

Written or recorded statements are to be taken from all operators' involved, potential witnesses and others who might have pertinent knowledge about the incident.

Report

A final report is to be prepared to include the most probable cause(s) and recommended corrective measures.

The report should consider

1. Failure of equipment
2. Failure of maintenance
3. Failure of procedures

4. Inadequate training
5. Human error etc.

Corrective Actions

The investigation team is also responsible for conducting a review of response activities during the emergency to evaluate the adequacy of training, equipment and procedures.

The Chief Executive is responsible for ensuring that all corrective actions to prevent recurrence of the incident are taken and to ensure better responses to emergencies, if any in future.

Recovery Team

Purpose

In order to facilitate the restoration of normal operations of the company after an emergency, a team is to be constituted by Chief Executive to manage recovery activities, including damage assessment.

Organization

The Recovery Team's organization will vary depending on the nature of the incident and the extent of recovery operations. As a general rule, however, individuals representing Maintenance, Production, Safety, Quality Control, Accounts, Engineering etc., should be involved.

The recovery team is responsible for damage assessment, clean up and salvage operations and the restoration of normal operations.

A primary function of the recovery team will be to assess the damage to structures, equipment and materials.

Clean-up and Restoration Operations

As soon as incident investigations are completed and restoration plans have been made, clean up and restoration activities should commence.

Damaged Equipment

Prior to restoration of normal operations, all affected equipment's are to be tested and checked according to procedures established.

Post-Emergency Recovery Reports

The officer-in-charge of Safety is to hold review sessions with emergency response personnel to evaluate.

1. The adequacy of emergency response procedures.
2. The adequacy of the investigation of the cause of the incident
3. Summarize the post-emergency activities.
4. A full report is to be prepared and copies given to all persons as necessary. The final report will summarize all previous reports and reviews as mentioned in this section.

MUTUAL AID SCHEME

The essential elements of Mutual aid agreement

1. Mutual Aid Scheme must be a written document, signed by the Chief Executives of all the industries entering into agreement.
2. It should specify available quantity of materials / equipment that can be spared (not all which is in stock). This quantity should be mentioned as the critical minimum stock for each item and shall be maintained always.
3. Mode of requisition during an emergency:
   a) It should authorize the shift-in-charge to quickly deploy available materials/equipment without waiting for formalities like gate pass etc.
   b) It should spell out mode of replacement of material given during an emergency.
   c) It should specify key personnel who are authorized to request materials from other industries or who can send materials to other industries.
   d) It should clearly state the mode of receipt of materials at the affected unit without waiting for quantity/quality verification.
4. Revision number and period of validity should be mentioned.
5. This may be updated form time to time based on experience gained.

A mutual understanding of help in emergency is agreed upon between nearby industries.

REVIEW AND UPDATION OF PLANS

This On-site emergency plan needs constant review and updating based on the following requirements.

1. Major change in the operational activities and location
2. Valuable inputs from actual disasters
3. Lessons learnt from training
4. Inputs from mock drills/ simulation exercises
5. Lessons learnt from near-miss incidents
6. Changes in disaster profile
7. Technological developments/ innovations in identifying potential hazards
8. Changes in regulatory requirements

The most important component of testing this on-site emergency plan is to conduct mock drill or simulation exercise in order to identify the positive elements as well as gaps.

Need For Mock Drill

Mock drill exercise is pertinent to verify the level of preparedness and improve the coordination during emergencies. This has to be based on past experiences and lessons learnt.

They help in identifying the extent to which the Plans are effective and also aid in revising these if required. These drills enhance the ability to

respond faster, better and in an organized manner during the response and recovery phase.

The approach for conducting a mock-drill varies as per the complexity of scenario depending upon the potential hazards, response system of the institution.

Therefore, to ensure proper implementation of a drill programme, roles and responsibilities (SOPs) of the concerned personnel, departments, corporate bodies, and mechanisms for conducting the drill should be delineated clearly.

For Effective Mock Drill

Regardless of the size, complexity and risk involved in the implementation of the drill, an effective drill/exercise programme should have the following essential elements as prerequisites:

- Emergency Response Plan explaining institutional response structure, emergence response functions and standard operating procedures for various departments
- Updated database of resources, equipment and manpower available
- Mock-drill Scenario and detailed action plan for Mock-drill
- Updated Emergency Directory with important contact details of members of various Departments.
- Evaluation formats for concerned departments and definite criteria for evaluation
- Observers and Qualified evaluators

- Lessons learnt from the actual drills and exercises would be useful to revise operational plans.

The drills and exercises will help to -

- Identify planning gaps
- Revise Standard Operating Procedures (SOPs) to enhance coordinated emergency response
- Enhance capacities of professionals, departments and trained volunteers.

Observers /Evaluators

Their role is to observe the actions and decisions of the players, in order to later report what went well and what did not. The main focus is on the performance of functions and or/agencies, institutions and facilities being tested, keeping in mind the objectives of the exercise.

Tips for Conducting Mock Drill

- Organize the mock drill which is representative of a real situation.
- Create a list of all participants before starting the drill.
- Explain the objectives, duration, "do's and don'ts" clearly to all participants
- Inculcate the practice of escorting the vulnerable to safe assembly areas
- Finally there shall be a head count to ascertain everybody has safely reached the safe spot.

- The participants should be advised not to panic during the mock drill. At the same time, they should be advised to be alert and participate seriously.
- Prior to conducting the drill, the drill team members should be trained in the duties, responsibilities and activities related to their respective positions in the conduct of the drill.

Guidelines for Conducting Mock Drill

When conducting drills, a set process should be followed in order to minimize risks of injury to personnel, damage to equipment or the environment.

Pre-Drill Briefing

The drill coordinator should hold a pre-drill briefing with the participants, observers/evaluators to explain the scene and the ground rules for executing the drill.

Operational procedures should be reviewed and safety precautions should be considered and reviewed with the participants. In a scenario which has a potential to cause damage to the habitat, it is important to involve the community and discuss the possible chain of events with them.

Drill Initiation

The drill should be initiated by the mock drill coordinator in accordance with the planned drill scenario. The exact actions for the initiation should be identified.

Drill Activity

After the drill is initiated, every activity and response should be carried out according to the scenario and respective roles. Methods for receiving and delivery of messages can be verbal or written; on paper, by telephone, radio or fax. The drill scenario should be allowed to continue till completion of the stated objectives or as stated by the mock drill coordinator.

Guidelines for Drill Evaluation

Evaluation process is an important component of the drill. It is the act of observing and recording mock drill activity, by comparing the performed actions against the drill objectives.

Evaluation serves three functions:

- To evaluate personnel actions
- To evaluate the ability of the responding agencies to implement a plan
- To check the effectiveness of the standard operating procedures

During the pre-drill briefing, the drill planner, mock drill coordinator and evaluation team will review the drill activity and SOPs. An evaluation worksheet outlining the action processes to be observed as per the set timeline decided in the scenario exercise should be circulated. After the drill, an evaluation report will be prepared and the comments can be incorporated into the SOPs.

Evaluation Team

The team members may be identified from within or outside the participating agencies.

The mock drill coordinator may also serve as an evaluator. The size of the evaluation team will depend on the complexity and scale of the drill. Evaluators should be familiar with the local emergency management system, have expertise and knowledge of the plan and have analytical skills in keeping with the exercise design.

Elements for Evaluation

The evaluators should consider the following elements in their evaluation

- Notification, alerting and mobilization of disaster response personnel
- Adequacy of alerting procedures
- Timely activation and staffing of response facilities
- Accurate and timely assessment of emergency situation
- Emergency response facilities
- Adequate personnel as per the Response Plan
- Adequate response equipment
- On-site preparedness plans and procedures
- Assigned task forces, personnel's demonstrated familiarity with the plans and standard operating procedures
- Following the set process of the procedures and plans
- Communications capabilities between response facilities
- Adequate timely communication with field teams
- Use of primary and back-up communication systems

- Satisfactory handling of messages and communication from control room to the field site and vice-versa
- Adequate communications between emergency support functions
- Situation assessment
- To be able to demonstrate timely and coordinated information exchange between response facilities
- To be able to assess the emergency situation, classify the situation and develop initial mitigation/restoration activities in a timely and accurate manner.

Feed Back & improvements

Following the drill, the mock drill coordinator will hold a session to critique the drill along with the evaluators and drill team. The critical analysis highlights the successes, shortcomings of the drill scenario, personnel's actions, equipment accessibility etc. The feedbacks and improvements include an analysis of the expected versus the actual operating actions including a critical evaluation of the response mechanisms and response time. The process should first involve

- Self-evaluation by the participants
- Discussion of the evaluation notes, checklists and actions taken
- Overall drill performance.

Lessons learnt should be generated and shared with all the participating agencies to ensure improvements and effectiveness for live scenarios. The mock drill coordinator shall make the final determination of whether the drill objective was met or not.

Mock Drill Evaluation Report

The evaluation report summarizes the development, conduct and results of the drill/exercise. The report should present an overall evaluation of the exercise, state whether the exercise objectives were achieved, and cite any areas of noteworthy performance, discoveries, determinations, problems, and solutions identified as a result of the exercise.

Note: Schedule to conduct the Mock drill for any specified emergency will be planned by HR & Security team in the beginning of each year.

ANNEXURES

ANNEXURE -I

KEY PERSONNEL AND CONTACT NUMBERS

(Key personnel of the organization is assigned to them in caseof an emergency)

SL.NO.	CONTACT PERSON	DESIGNATION	CONTACT NUMBER
1	DEVARAJ	HR ADMIN	9940048721
2	GURUMOORTHY	ADMIN	9940048722
3	AVATAR SINGH	FOREMAN	9894136982
4	A.DHINAKAR	SUPERVISOR	9840472266
5	SIVARAJ	SECURITY	9578996506
6	D.SIGAMANI	MAINTENANCE INCHARGE	6381347452
7	K.V BABU	ELECTRICAL INCHARGE	9840824080

ANNEXURE -II

EXTERNAL ORGANIZATIONS ASSISTANCE

(Outside organizations involved in assisting during on-site emergency)

FIRE	
Control Room	101
Gummidipoondi	044 27929267 , 9445086160
Gummidipoondi SIPCOT	044 27922701 , 9445086161
Thiruvallur	044 27660299 , 9445086158
POLICE	
Control Room	100
Gummidipoondi SIPCOT	044 2792 2861
DSP - Gummidipoondi	9444254901
SP- Thiruvallur	044 2766 1010
HOSPITAL	
ALPHA HOSPITALS	8925414999
ESI Gummidipoondi	9445330518
Stanley Hospital	044 2528 2350
Govt.Gen.Hospital - Thiruvallur	044 27660242
Ambulance - Emergency	108
DIRECTRATE OF INDUSTRIAL SAFETY AND HEALTH	
Director	044-22502103
POLLUTION CONTROL BOARD	
TNPCB, Chennai	044-22353134
District Environment Engineer	044-27922465
DISTRICT AUTHORITY	
District Collector, Thiruvallur	044-2766 1600
ELECTRICITY BOARD	
Electricity sub station SIPCOT Gummidipoondi	9445850932

ANNEXURE -III

LIST OF PERSONAL PROTECTIVE EQUIPMENT

S.No	PPE's
1	Safety Helmet
2	Safety Goggles
3	Safety Shoes
4	PVC Apron
5	Cotton gloves Gloves
6	PVC gloves
7	Nitrile gloves
8	Leather apron
9	Cotton gloves
10	Nose mask
11	Boiler suit
12	Aluminized suit
13	Rubber gloves
14	Ear plug
15	Ear muff
16	Welding shield
17	Gas cutting visor
18	Heat resistant gloves
19	Nylon life line rope
20	Gum Boots
21	Safety Belt
22	Chemical Cover All
23	White goggles
24	Black goggles

ANNEXURE -IV
MOCK DRILL REPORT

தடுப்பே பணியில் 100 ஆவது இடம்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

FIRE MOCK DRILL REPORT

PLACE:

KANISHK & OP STEELS INDUSTRIES LTD

Plot No.B-27 (M) SIPCOT Industrial Complex,

Gummidipoondi – 601 201.

Date : 03.04.2023.

FIRE MOCK DRILL REPORT

Factory : KANISHK & OP STEELS INDUSTRIES LTD

MUTUAL MEMBERS PARTICIPATED:

1. Mr. Ashok Thakur, General Manager,
2. Mr.Avtar Singh, Foreman,
3. Mr.Dewaram Puniya, Production Manager,
4. Mr.K.V. Babu, Electrical Engineer,
5. Mr.Sigamani, Maintenance Incharge
6. Mr.Gurumoorthy,Cashier
7. Mr.Govindaraj, H.R. Asst.
8. Mr.S.Selvaraj, Fire Officer,

1.	Location	:	**Emergency Assembly Point**
2.	Date of Fire Mock Drill	:	**03.04.2023**
3.	Time	:	**14.30 hrs**
4.	Time of Siren	:	**16.30 hrs**
5.	Evacuation of total time	:	**02.00 minutes**
6.	Total Employee	:	Staff: **42** / Worker: **94** / C.L: **80** / H.K: **12** / Security: **12** / Total: **240**
7.	Safety, First Aid, Health	:	Lecture by S.Selvaraj, Fire Officer.
8.	Communication System	:	Land Line
9.	Rescue Operation if any	:	Disaster Management Methods of Rescue and Evacuation
10.	Participation, observation by external agency / visiting staff if any	:	N I L
11.	Details of equipment used	:	Different types of D.G.pumps and main pumps and jockey pumps operating system in panel board to all the staffs.
12.	P.P.E	:	Following as per norms
13.	Preventive measures	:	GOOD
14.	Drill effectiveness	:	GOOD
15.	Participation / Role clarity	:	Training given to operate all the hydrant point and monitors.
16.	Team work and Co-ordination	:	First aid training also carried out.

03/04/2023

17.	Performance of facilities	:	SATISFACTORY
18.	Housekeeping	:	GOOD
19.	Suggestions to improve	:	To conduct mock drill and fire drill as per the norms by Fire Department.
20.	Short comings if any	:	Given Train to Security to operate extinguisher with PASS Method
21.	All Clear	:	**16.35 Hrs.**
22.	Half yearly Mock Drill 2023	:	**SATISFACTORY**
23.	Information given to	:	
i)	Office of the Factory Depts	:	**044 – 28112155,**
ii)	Pollution control Board	:	**044 – 27664425**
iii)	Police Station	:	**044 – 27922996**
iv)	Local Hospital G.H.	:	**044 – 27929357**
v)	Fire Station, SIPCOT	:	**044 – 27922701**
vi)	District Emergency Authority	:	**044 – 27974073**
vii)	TNEB	:	**044 – 27922801**
24.	Alarm System	:	
	Is alarm Audible in all work area?	:	**Yes**
25.	Wind Direction Indicator	:	
	Whether the indicator for wind direction visible from all places in plant	:	**Yes, It is located near Building Tower.**
26.	Control Room and Communication System	:	
	Were the communication system and their maintenance adequate	:	**Security Incharge and H.R. Safety Department**
27.	Communication System available incase of power failure including the name of messenger?	:	**Yes** **Security person and Safety Department**

03/01/2023

29.07 03/01/2023.

Fire officer.
Fire and Rescue Station,
Gummidipoondi – SIPCOT

காக்கும் பணியில் 100 ஆண்டுகள்

Fire Loss is National Loss
Let us adopt Fire Safety Measures

CERTIFICATE

This is to certify that **M/s.KANISHK & OP STEELS INDUSTRIES LTD.,** Plot B-27, (M) SIPCOT Industrial complex,,Gummidipoondi Taluk– 601 201, periodically mock drill – 2023 on 03.04.2023 at 14.30 hrs to 16.30 hrs. between Staff and Labours, Security, Housekeeping Total 240 Members. Given Training and Lecture for about DG pump, main pump and jockey pump operating system in pump room panel board and training given to operate all the hydrant point and monitor system with fire fighting during summer seasons to all the staff and operate the Hydrant System first aid fire fighting portable extinguisher in the factory premises at the time of emergency.

Evacuation Drill Exercise also trains for Disaster Control Management Plan to all staffs by factory norms.

03/04/2023

Office Seal

29.03.2023

Fire officer,
Fire and Rescue Station,
Gummidipoondi – SIPCOT



























































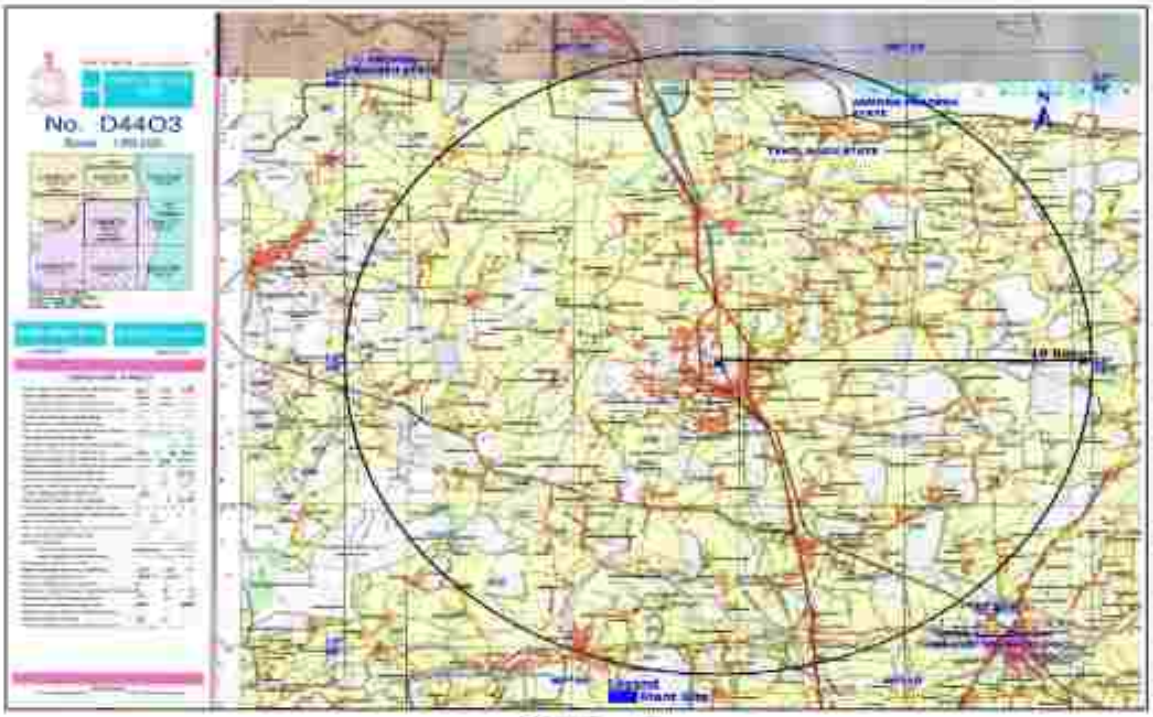


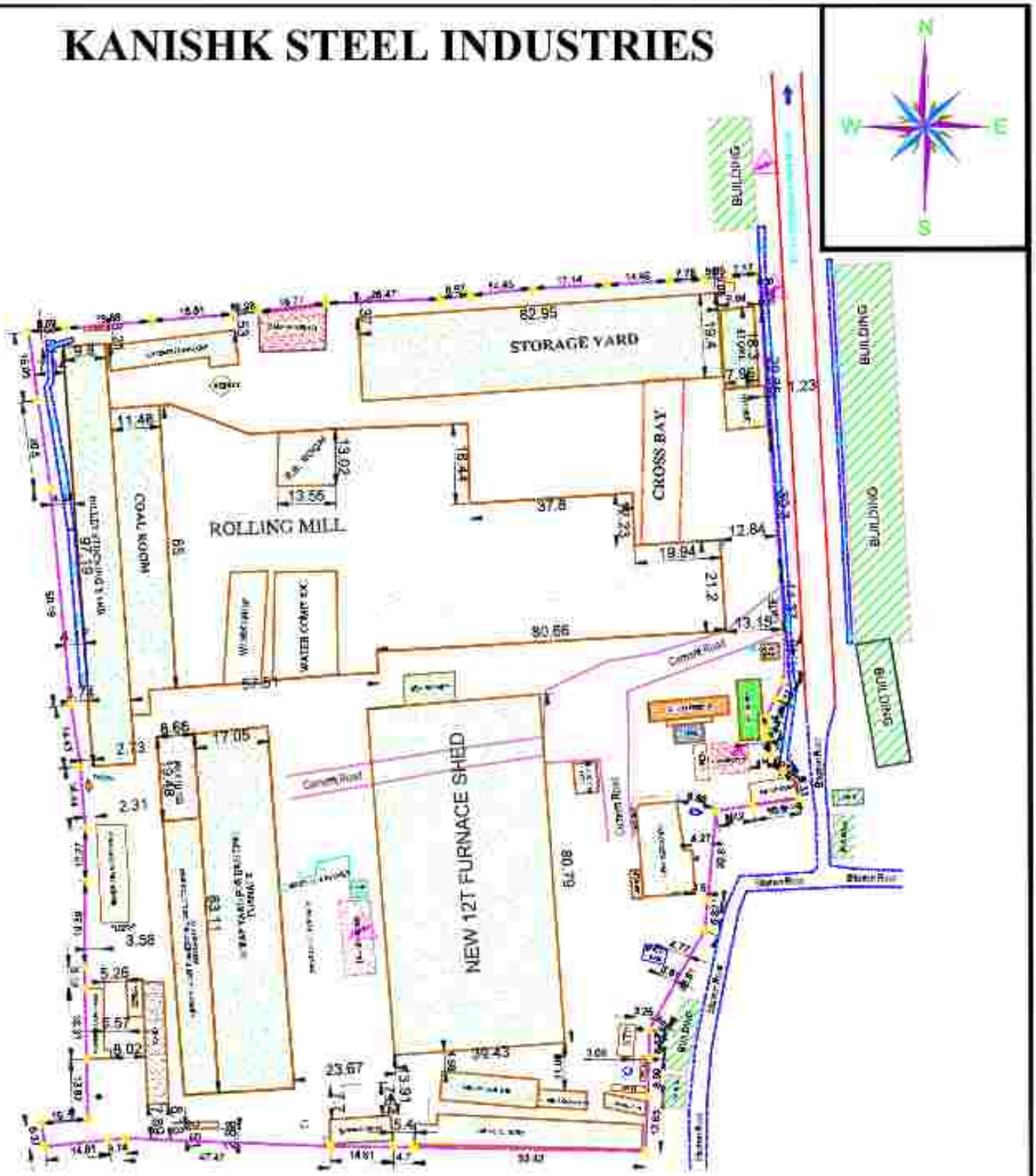
FIGURE - 1.2
10 KM RADIUS TOPOMAP USING SURVEY OF INDIA TOPOSHEETS

KANISHK STEEL INDUSTRIES LIMITED

Material Balance



KANISHK STEEL INDUSTRIES



NOTE :

1. All Dimensions & levels are in metres.
2. Drafting Shown on this Map is based on the Magnetic North.
3. - Benchmark has been established on the Road (CI. Pole) value of +100.00m arbitrarily.
4. Block levels have been taken at 5 meter intervals. Contours have been drawn at 0.25m intervals.

DISASTER MANAGEMENT PLAN
&
FUND DONATIONS DETAILS

detailed design, applying recommended control strategies and implementing a Safety Management System

7.2.3 Recommended Approach to Combat with the Possible Accidents

Considering all possible accident scenarios as analysed in the risk analysis, it is established that there will not be any major potential hazards in the project causing major damages inside and outside the boundary. In spite of this, the project authorities should be well prepared to handle any such eventuality as described below;

In case of Explosion:

The following measures and actions are to be taken:

- Evacuate the area in vicinity;
- Take all necessary actions to avoid escalation of the accident;
- If problem appears to be out of control, call fire brigade and police. Report to the District collector, and;
- Provide first aid to the victims as suggested in the Material Safety Data Sheets.

Spillage due to Diesel Storage Tank Rupture:

This accident scenario has considerable damage potential. In such scenario the following steps should be taken:

- Contain fuel supply to the tankers;
- Determine the extent of damage;
- Undertake all the emergency actions mentioned above.

7.3 Disaster Management Plan

The disaster management plan has been prepared inline with Tiruvallur District Disaster Management Plan, 2016. A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering, as a result, need protection, clothing, shelter, medical and social care and other necessities of life.

Disasters can be divided into two main groups. In the first, disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, avalanches, landslides, forest fires etc. The second group includes disastrous events occasioned by man, or man's impact upon the environment. Examples are armed conflict, radiation accidents, campus fires, river pollution, air, sea, rail and road transport accidents and can reach catastrophic dimensions in terms of human loss.

There can be no set criteria for assessing the gravity of a disaster in the abstract since this depends to a large extent on the physical, economic and social environment in which it occurs. What would be considered a major disaster in a developing country, ill-equipped to cope with the problems involved may not mean more than a temporary emergency elsewhere.

However, all disaster brings in their wake similar consequences that call for immediate action, whether at the local, national or international level, for the rescue and relief of the

victims. This includes the search for the dead and injured and removal of debris and social care, the provision of temporary shelter to the homeless food, clothing and medical supplies, and the rapid re-establishment of essential services.

7.3.1 Objectives of Disaster Management Plan (DMP)

The Disaster Management Plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it will be widely circulated and personnel training given through rehearsals/drills.
The Disaster Management Plan would reflect the probable, consequential severity of the undesired event due to deteriorating conditions or through 'Knock on' effects. Further the management should be able to demonstrate that their assessment of the consequences uses good supporting evidence and is based on currently available and reliable information, incident data from internal and external sources and if necessary the reports of outside agencies. To tackle the consequences of a major emergency inside the factory or immediate vicinity of the factory, a planned emergency document is prepared, called the "Disaster Management Plan"

The objective of the Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area; and
- Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the Emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

7.3.2 Specific Emergencies Anticipated

Fire consequences can be disastrous, since they involve huge quantities of fuel either stored or in dynamic inventory in pipelines or in nearby areas. Toxic releases can affect persons working around. Preliminary hazard Analysis has provided a basis for consequence estimation.

7.3.3 Emergency Organization

It is recommended to set up an Emergency Organization. A senior executive who has control over the affairs of the plant would be heading the Emergency Organization. He would be designated at Site Controller. Works Manager would be designated as the Incident Controller. In the case of stores, utilities, open areas, which are not under the control of the Production Heads, Senior Executive responsible for maintenance of utilities would be designated as Incident Controller. All the Incident Controllers would be reporting to the Site Controller.

Each Incident Controller, for himself, organizes a team responsible for controlling the incidence with the personnel under his control. Shift In-charge would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.

Emergency co-ordinators would be appointed who would undertake the responsibilities like fire fighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, Security In-charge, Personnel Department, Essential services personnel would be engaged. All these personnel would be designated as Key personnel.

In each shift, electrical supervisor, electricians and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/plant offices would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.3.3.1 Emergency Communication

Whoever notices an emergency situation such as fire, escalation of fire, leakage etc will inform his immediate superior and Emergency Control Center. A place nearer to the security office shall be identified as Emergency Control Center. The person on duty in the Emergency Control Center would appraise the Site Controller. Site Controller verifies the situation from the Incident Controller of that area or the Shift In-charge and takes a decision about an impending On Site Emergency. This would be communicated to all the Incident Controllers, Emergency Co-ordinators. Simultaneously, the emergency warning system would be activated on the instructions of the Site Controller.

7.3.4 Onsite Emergency Preparedness and Response for Accidents

7.3.4.1 Emergency Responsibilities

The responsibilities of the key personnel are appended below:

Site Controller:

On receiving information about emergency he would rush to Emergency Control Center (ECC) and take charge of ECC and the situation and;

- Assesses the magnitude of the situation on the advice of incident Controller and decides, Whether the affected area needs to be evacuated,
- Whether personnel who are at assembly points need to be evacuated,
- Declare Emergency and order for operation of emergency siren,
- Organizes announcement by public address system about location of emergency,
- Assesses which areas are likely to be affected, or need to be evacuated or need to be alerted,
- Maintains a continuous review of possible development and assesses the situation in consultation with Incident Controller and other Key Personnel as to whether shutting down the plant or any section of the plant is required and if evacuation of persons is required,
- Directs personnel for rescue, rehabilitation, transport, fire, brigade, medical and other designated mutual support systems locally available, for meeting emergencies.
- Controls evacuation of affected areas, if the situation is likely to go out of control or effects are likely to go beyond the premises of the factory, informs the District Emergency Authority, Police, Hospital and seeks their intervention and help,

- Informs the Inspector of Factories, Deputy Chief Inspector of Factories, TNPCB and other statutory authorities,
- Gives a public statement if necessary,
- Keeps record of chronological events and prepares an investigation report and preserve evidence,
- On completion of On Site Emergency and restoration of normalcy, declares all clear and orders for all clear warning.

Incident Controller:

- Assembles the incident control team.
- Directs operations within the affected areas with the priorities for safety to personnel minimize damage to the plant, property and environment and minimize the loss of materials.
- Directs the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency.
- Ensure that key personnel help is sought.
- Provides advice and information to the Fire and Security Officer and the Local Fire Services as and when they arrive.
- Ensures that all non-essential workers/staff of the affected areas evacuated to the appropriate assembly points, and the areas are searched for casualties.
- Has regard to the need for preservation of evidence so as to facilitate any inquiry into the causes and circumstances, which caused or escalated the emergency.
- Co-ordinates with emergency services at the site.
- Provides tools and safety equipment to the team members.
- Keeps in touch with the team and advice them regarding the method of control to be used.
- Keeps the Site Controller of Emergency informed of the progress being made

Emergency Coordinator - Rescue, Fire Fighting:

- Helps the incident Controller in containment of the emergency;
- Ensures fire pumps are in operating conditions and instructs pump house operator to be ready for any emergency with standby arrangement;
- Guides the fire fighting crew i.e. firemen, trained plant personnel and security staff;
- Organizes shifting of the fire fighting facilities to the emergency site, if required;
- Takes guidance of the Incident Controller for fire fighting as well as assesses the requirements of outside help;
- Arranges to control the traffic at the gate and the incident area;
- Directs the security staff to the incident site to take part in the emergency operations under his guidance and supervision;
- Evacuates the people in the plant or in the nearby areas as advised by Site Controller;
- Searches for casualties and arranges proper aid for them;
- Assembles search and evacuation team;
- Arranges for safety equipment for the members of this team;
- Decides which paths the evacuated workers should follow;
- Maintains law and order in the area, and if necessary seeks the help of police.

Emergency Coordinator-Medical, Mutual Aid, Rehabilitation, Transport and Communication:

- In the event of failure of electric supply and thereby internal telephone, sets up communication point and establishes contact with the ECC;
- Organizes medical treatment to the injured and if necessary will shift the injured to nearby hospitals;
- Mobilizes extra medical help from outside, if necessary;
- Keeps a list of qualified first aid providers of the factory and seek their assistance;
- Maintains first aid and medical emergency requirements;
- Makes sure that all safety equipment is made available to the emergency team;
- Assists Site Controller with necessary data and to coordinate the emergency activities;
- Assists Site Controller in updating emergency plan, organizing mock drills verification of inventory of emergency facilities and furnishing report to Site Controller;
- Maintains liaison with Civil Administration;
- Ensures availability of canteen facilities and maintenance of rehabilitation center;
- He will be in liaison with Site Controller/Incident Controller;
- Ensures transportation facility;
- Ensures availability of necessary cash for rescue/rehabilitation and emergency expenditure;
- Controls rehabilitation of affected areas on discontinuation of emergency;
- Ensures availability of diesel/petrol for transport vehicles engaged in emergency operation.

Emergency Coordinator - Essential Services:

- He would assist Site Controller and Incident Controller.
- Maintains essential services like Diesel Generator, Water, Fire Water, Compressed Air/Instrument Air, power supply for lighting.
- He would plan alternate facilities in the event of power failure, to maintain essential services such as lighting, refrigeration plant etc.
- He would organize separate electrical connections for all utilities and emergency services so that in the event of emergency or fires, essential services and utilities are not affected.
- Gives necessary instructions regarding emergency electrical supply, isolation of certain sections etc. to shift in-charge and electricians.
- Ensures availability of adequate quantities of protective equipment and other emergency materials, spares etc.

General Responsibilities of Employees during an Emergency:

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers if they are in-charge of process equipment should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

7.3.4.2 Emergency Facilities

Emergency Control Center (ECC):

For the time being, Office Block or a place nearer to the security office is identified as Emergency Control Center. It would have external Telephone, Fax, and Telex facility. All the Site Controller/ Incident Controller Officers, Senior Personnel would be located here. Also, it

would be an elevated place. The following information and equipment are to be provided at the Emergency Control Center (ECC).

- Intercom, telephone
- P and T telephone
- Safe contained breathing apparatus
- Fire suit/gas tight goggles/gloves/helmets
- Hand tools, wind direction/velocities indications
- Public address megaphone, hand bell, telephone directories
- (Internal P and T) factory layout, site plan
- Emergency lamp/torch light/batteries
- Plan indicating locations of hazard inventories, plant control room, sources of safety equipment, work road plan, assembly points, rescue location vulnerable zones, escape routes.
- Hazard chart
- Emergency shut-down procedures
- Nominal roll of employees
- List of key personnel, list of essential employees, list of Emergency Co-ordinators
- Duties of key personnel
- Address with telephone numbers and key personnel, emergency coordinator, essential employees.
- Important address and telephone numbers including Government agencies, neighbouring industries and sources of help, out side experts, chemical fact sheets population details around the factory.

Assembly Point:

Number of assembly points depending upon the plant location would be identified wherein employees who are not directly connected with the disaster management would be assembled for safety and rescue. Emergency breathing apparatus, minimum facilities like water etc. would be organized. In view of the size of plant, different locations are ear marked as assembly points. Depending upon the location of hazard, the assembly points are to be used.

Fire Fighting Facilities:

First Aid Fire fighting equipment suitable for emergency should be maintained in each section in the plant. This would be as per statutory requirements. However, fire hydrant line covering major areas would be laid. It would be maintained at 6- kg/cm^2 pressure. Fire alarms would be located in the bulk storage areas. Fire officer will be the commanding officer of fire fighting services.

Location of Wind Sock:

On the top of the Administration block and the top of each production blocks, windsocks shall be installed to indicate direction of wind for emergency escape.

Emergency Medical Facilities:

Stretchers, gas masks and general first aid materials for dealing with fire burns would be maintained in the medical center as well as in the emergency control room. Medical superintendent of the township will be the head of the casuality services ward. Private medical practitioners help would be also are sought. Government hospital would be approached for emergency help.

Apart from plant first aid facilities, external facilities would be augmented. Names of Medical Personnel, Medical facilities in the area would be prepared and updated. Necessary specific medicines for emergency treatment of Burns for Patients and for those affected by toxicity would be maintained. Breathing apparatus and other emergency medical equipment would be provided and maintained. The help of near by industrial management in this regard would be taken on mutual support basis.

Ambulance:

An ambulance with driver availability in all the shifts and an emergency shift vehicle would be ensured and maintained to transport injured or affected persons. Number of persons would be trained in first aid so that, in every shift, first aid personnel would be available.

7.3.4.3 Emergency Actions

Emergency Warning

Communication of emergency would be made familiar to the personnel inside the plant and people outside. An emergency warning system shall be established.

Emergency Shutdown

There are number of facilities which can be provided to help deal with hazardous conditions, when a tank is on fire. The suggested arrangements are:

1. Stop the production;
2. Dilute contents;
3. Remove heat;
4. Deluge with water; and
5. Transfer contents.

Whether a given method is appropriate depends on the particular case. Cessation of agitation may be the best action in some instances but not in others. Stopping of the feed may require the provision of by pass arrangements.

Methods of removing additional heat include removal through the normal cooling arrangements or use of an emergency cooling system. Cooling facilities, which use vaporing liquid, may be particularly effective, since a large increase in vaporization can be obtained by dropping pressure.

Evacuation of Personnel:

There could be more number of persons in the storage area and other areas in the vicinity. The area would have adequate number of exits and staircases. In the event of an emergency, unconnected personnel have to escape to assembly point. Operators have to take emergency shutdown procedure and escape. Time Office maintains a copy of deployment of employees in each shift, at ECC. If necessary, persons can be evacuated by rescue teams.

All Clear Signal:

Also, at the end of an emergency, after discussing with Incident Controllers and Emergency Co-ordinators, the Site Controller orders an all clear signal. When it becomes essential, the Site Controller communicates to the District Emergency Authority, Police, and Fire service personnel regarding help required or development of the situation into an Off-Site Emergency.

7.3.4.4 General

Employee Information:

During an emergency, employees would be warned by raising siren in specific pattern. Employees would be given training of escape routes, taking shelter, protecting from toxic effects. Employees would be provided with information related to fire hazards, antidotes and first aid measures. Those who would be designated as key personnel and essential employees should be given training to emergency response.

Public Information and Warning:

The industrial disaster effects related to this plant may mostly be confined to the plant area. The detailed risk analysis has indicated that the pool fire effects would not be felt outside. However, as an abundant precaution, the information related to chemicals in use would be furnished to District Emergency Authority for necessary dissemination to general public and for any use during an off site emergency. Factories of this size and nature are in existence in our state since long time.

Co-ordination with Local Authorities:

Keeping in view of the nature of emergency, two levels of coordination are proposed. In the case of an On Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency, local authorities help should be sought.

In the event of an emergency developing into an off site emergency, local authority and District emergency Authority (normally the Collector) would be appraised and under his supervision, the Off Site Disaster Management Plan would be exercised. For this purpose, the facilities that are available locally, i.e. medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered. Necessary rehearsals and training in the form of mock drills should be organized.

Mutual Aid:

Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc should be sought from the neighboring industrial management.

Mock Drills:

Emergency preparedness is an important step in planning of Industrial Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through carefully planned, simulated procedures. Similarly, the key personnel and essential personnel should be trained in the operations. Co-ordination meeting with the line Department officials for preparedness and implementation, viability and conduct of Mock Drill/ training should be conducted along with Divisional or Taluk level of Tiruvallur District.

Important Information:

Once the Plant goes into stream, important information such as names and addresses of key personnel, essential employees, medical personnel, outside the plant, transporters address, address of those connected with Off Site Emergency such as Police, Local Authorities, Fire Services, District Emergency Authority should be prepared and maintained.

7.3.5 Off-Site Emergency Preparedness Plan

7.3.5.1 Introduction

Off-site emergency plan follows the on-site emergency plan. When the consequences of an emergency situation go beyond the plant boundaries, it becomes an off-site emergency. Off-site emergency is essentially the responsibility of the public administration. However, the factory management will provide the public administration with the technical information relating to the nature, quantum and probable consequences on the neighbouring population. The off-site plan in detail will be based on those events, which are most likely to occur, but other less likely events, which have severe consequence, will also be considered. Incidents which have very severe consequences yet have a small probability of occurrence should also be considered during the preparation of the plan. However, the key feature of a good off-site emergency plan is flexibility in its application to emergencies other than those specifically included in the formation of the plan.

The roles of the various parties who will be involved in the implementation of an off-site plan are described below. Depending on local arrangements, the responsibility for the off-site plan should be either rest with the works management or, with the local authonty. Either way, the plan should identify an emergency co-ordinating officer, who would take the overall command of the off-site activities. As with the on-site plan, an emergency control center should be setup within which the emergency co-ordinating officer can operate.

An early decision will be required in many cases on the advice to be given to people living "within range" of the accident - in particular whether they should be evacuated or told to go indoors. In the latter case, the decision can regularly be reviewed in the event of an escalation of the incident. Consideration of evacuation may include the following factors:

a. In the case of a major fire but without explosion risk (e.g. an oil storage tank), only houses close to the fire likely need to be evacuated, although a severe smoke hazard may require this to be reviewed periodically;

b. If a fire is escalating and in turn threatening a store of hazardous material, it might be necessary to evacuate people nearby, but only if there is time; if insufficient time exists, people should be advised to stay indoors and shield them from the fire.

This latter case particularly applies if the installation at risk could produce a fireball with very severe thermal radiation effects;

c. For release or potential release of toxic materials, limited evacuation may be appropriate down wind, if there is time. The decision would depend partly on the type of housing "at risk". Conventional housing of solid construction with windows closed offers substantial protection from the effects of a toxic cloud, while shanty house, which exist close to factories, offer little or no protection.

The major difference between releases of toxic and flammable materials is that toxic clouds are generally hazardous down to much lower concentrations and therefore hazardous over greater distances. Also, a toxic cloud drifting at, say 300 m per minute covers a large area of land very quickly.

Any consideration of evacuation should take this into account. Although the plan will have sufficient flexibility built in to cover the consequences of the range of accidents identified for the on-site plan, it will cover in some detail the handling of the emergency to a particular distance from each major hazard works.

7.3.5.2 Aspects Proposed to be considered in the Off-Site Emergency Plan

The main aspects, which should be included in the emergency plan, are:

- **Organization**

Details of command structure, warning systems, implementation procedures, emergency control centers. Names and appointments of incident controller, site main controller, their deputies and other key personnel.

- **Communications**

Identification of personnel involved, communication center, call signs, network, list of telephone numbers.

- **Specialized knowledge**

Details of specialist bodies, firms and people upon whom it may be necessary to call e.g. those with specialized chemical knowledge and laboratories.

- **Voluntary organizations**

Details of organizers, telephone numbers, resources etc.

- **Chemical information**

Details of the hazardous substances stored or procedure on each site and a summary of the risks associated with them.

- **Meteorological information**

Arrangements for obtaining details of weather conditions prevailing at the time and weather forecasts.

- **Humanitarian arrangements**

Transport, evacuation centers, emergency feeding treatment of injured, first aid, ambulances and temporary mortuaries.

- **Public information**

Arrangements for dealing with the media press office and informing relatives, etc.

- **Assessment of emergency plan**

Arrangements for: (a) Collecting information on the causes of the emergency; (b) Reviewing the efficiency and effectiveness of all aspects of the emergency plan.

7.3.5.3 Role of the Emergency Co-ordinating Officer

The various emergency services should be co-ordinated by an Emergency Co-ordinating Officer (ECO), who will be designated by the district collector. The ECO should liaison closely with the site main controller.

The Emergency Operation Center (EOC) functioning at each Taluk office Collectorate, round the clock. Again depending on local arrangements, for very severe incidents with major or prolonged off-site consequences, the external control should be passed to a senior local authority administrator or even an administrator appointed by the central or state government.

7.3.5.4 Role of the Local Authority

The duty to prepare the off-site plan lies with the local authorities. The Emergency Planning Officer (EPO) appointed should carry out his duty in preparing for a whole range of different emergencies within the local authority area. The EPO should liaison with the works, to obtain the information to provide the basis for the plan. This liaison should ensure that the plan is continually kept upto date.

It will be the responsibility of the EPO to ensure that all those organizations, which will be involved in off site handling of the emergency situation, know of their role and are able to accept it by having for example, sufficient staff and appropriate equipment to cover their particular responsibilities. Rehearsals for off-site plans should be organized by the EPO.

7.3.5.5 Role of Police

Formal duties of the police during an emergency include protecting life and property and controlling traffic movements. Their functions should include controlling bystanders, evacuating the public, identifying the dead and dealing with casualties, and informing relatives of death or injury.

7.3.5.6 Role of Fire Authorities

The control of a fire should be normally the responsibility of the senior fire brigade officer who would take over the handling of the fire from the site incident controller on arrival at the site. The senior fire brigade officer should also have a similar responsibility for other events, such as explosions and toxic release.

Fire authorities in the region should be appraised about the location of all stores of flammable materials, water and foam supply points, and fire-fighting equipment. They should be involved in on-site emergency rehearsals both as participants; and on occasion, as observers of exercises involving only site personnel.

7.3.5.7 Role of Health Authorities

Health authorities, including doctors, surgeons, hospitals, ambulances, and so on, should have a vital part to play following a major accident, and they should form an integral part of the emergency plan. For major fires, injuries should be the result of the effects of thermal radiation to a varying degree, and the knowledge and experience to handle this in all but extreme cases may be generally available in most hospitals. For major toxic releases, the effects vary according to the chemical in question, and the health authorities should be apprised about the likely toxic releases from the plant, which will enable them in dealing with the aftermath of a toxic release with treatment appropriate to such casualties. Major off-site incidents are likely to require medical equipment and facilities additional to those available locally, and a medical "mutual aid" scheme should exist to enable the assistance of neighbouring authorities to be obtained in the event of an emergency.

7.3.5.8 Role of Government Safety Authority

This will be the factory inspectorate available in the region. Inspectors are likely to satisfy themselves that the organization responsible for producing the off-site plan has made adequate arrangements for handling emergencies of all types including major emergencies. They may wish to see well-documented procedures and evidence of exercise undertaken to test the plan.

In the event of an accident, local arrangements regarding the role of the factory inspector will apply. These may vary from keeping a watching brief to a close involvement in advising on operations in case involvement in advising on operations. In cases where toxic gases may have been released, the factory inspectorate may be the only external agency with equipment and resources to carry out tests.

7.4 Occupational Health and Safety

Large industries, in general where numerous activities are involved during construction, erection, testing, commissioning, operation and maintenance, materials and machines are the basic inputs. Along with the boons, the industrialization generally brings several problems like occupational health and safety.

The industrial planner therefore has to properly plan and take the steps to minimize the impacts of industrialization and to ensure appropriate occupational health, safety including fire plans. All these activities again may be classified under construction and erection & operation and maintenance. The proposed safety plan is given below:

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Old No.4, New No.7, Thiru-Vi-Ka III Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 42919719
E-mail : info@kanishksteels.in

ISO 9001 : 200

Date: 07/12/2022

To,

The Tahsildar,

Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

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Thanking You,

Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory

P.R. 996531

MR. அலுவலர்

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CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date:10.11.2022

To,

The Executive Officer ,

Town panchayat, Gummidipoondi,

Thiruvallur District-601201.

Sub:-Flag Day Fund Collection

Dear Sir,

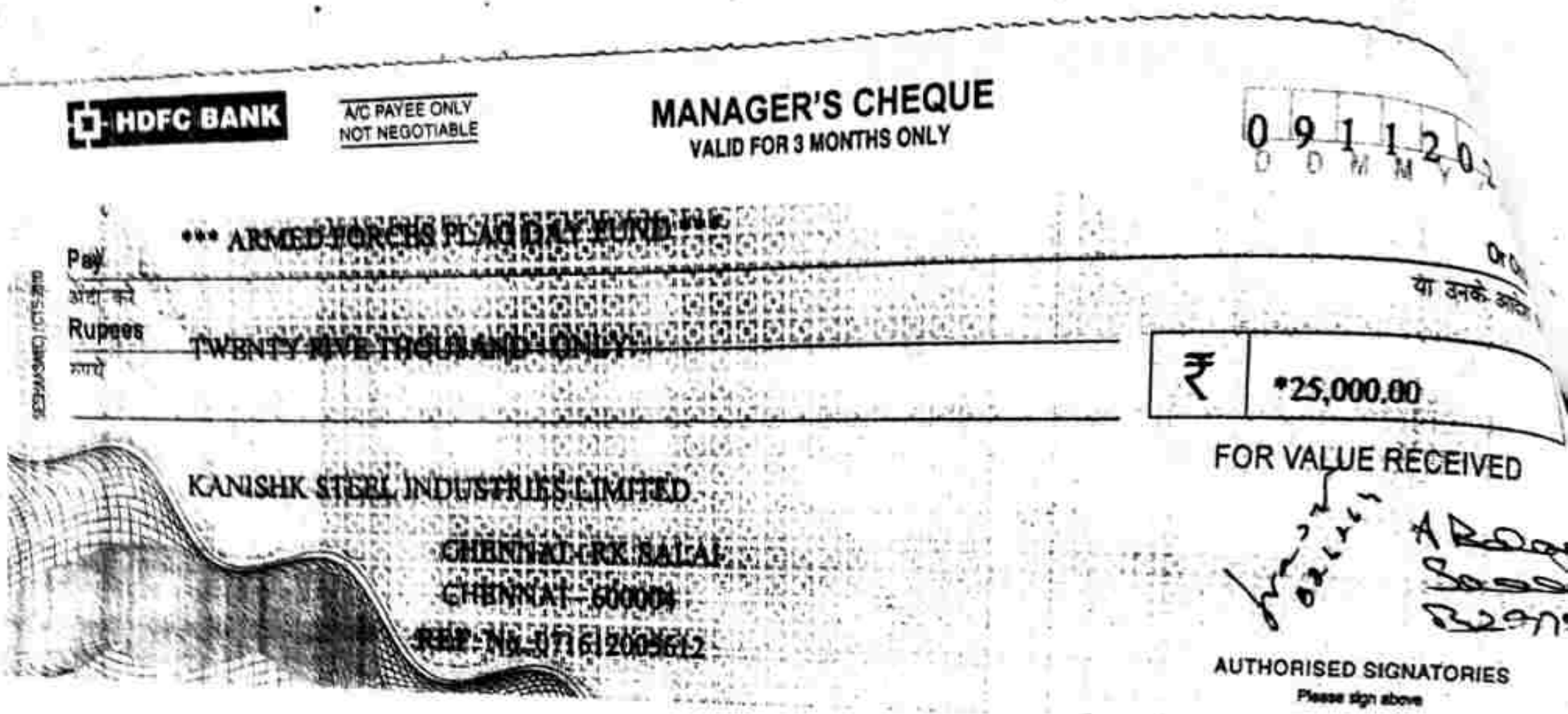
With regard to your above subject letter requesting us to contribute for Flag Day Celebration year-2022. We are herewith enclosing our DD No:005156 Dt: 09.11.2022 for Rs.25000/-(Twenty Five Thousand Only).

Thanking You,

Yours Faithfully,

For M/S.Kanishk Steel Industries Limited.,

Authorized Signatory.



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CHENNAI - 600004
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Please sign above

"005156" 600240002: 999989" 12

விடுநர்

திரு. பா. தாமோதரன்,
செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
திருவள்ளூர் மாவட்டம்.

பெறுநர் தே.நி. ஸ்டேன்ஸ் ஸ்டீவன்ட்
தூய்கோட்
சென்னை-600 007

ந.க.எண்.37 / 2017 / அ1 நாள்.06.09.2017

அய்யா,

பொருள் : படைவீரர் நலம் – கும்முடிப்பூண்டி பேரூராட்சி – திருவள்ளூர் மாவட்டம் – நன்கொடை வரூல் செய்தல் இலக்கு நிர்ணயித்து ஆணையிட்டுள்ளது – படைவீரர் கொடி நாள் நன்கொடை வழங்கக் கோருதல் – தொடர்பாக.

பார்வை : மாவட்ட ஆட்சித் தலைவர், திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறை ஆணை ந.க.எண்.4900/2016/அ1 நாள்.22.02.2017.

திருவள்ளூர் மாவட்டம் கும்முடிப்பூண்டி பேரூராட்சிக்கு முன்னாள் படைவீரர் கொடிநாள் நிதி 2016 ம் ஆண்டிற்கு இலக்காக ரூ.3,00,000/– வரூல் செய்ய நிர்ணயம் செய்து பார்வையில் காணும் மாவட்ட ஆட்சித் தலைவர் திருவள்ளூர் மாவட்டம் அவர்களின் செயல்முறையில் உத்தரவிடப்பட்டுள்ளது. எனவே, தங்கள் நிறுவனத்தின் மூலம் ரூ.20,000/– க்கு ARMED FORCES FLAG DAY FUND என்ற பெயரில் வங்கி வரைவோலையாக (Payable at Tiruvallur) திருவள்ளூரில் மாற்றத் தக்க வகையில் எடுத்து இப்பேரூராட்சிக்கு அனுப்பி வைக்குமாறு அன்புடன் கேட்டுக் கொள்கிறேன்.

மேலும், இப்படை வீரர் கொடி நாளுக்கென வசூலிக்கப்படும் நிதி அந்திய படையெடுப்புகளை முறியடிப்பதில் முனைந்து போரிட்டு இன்னுயிர் நீர்த்த மற்றும் உடல் உறுப்புகளை இழந்து நாட்டு வரலாற்று சுடர்மணிகளாய் ஒளிவிடும் போர் வீரர்களின் குடும்பத்தின் நலனிற்கு பயன்படுத்தப்படுகிறது. படைவீரர் கொடி நாளுக்கு வழங்கப்படும் நன்கொடைக்கு வருமான சட்டப்பிரிவு 80 (G) –ன் கீழ் வருமான வரி விலக்கு அளிக்கப்பட்டுள்ளது எனவும் தெரிவித்துக் கொள்ளப்படுகிறது. எனவே, கருணை உள்ளத்தோடு தாராளமாக நிதி உதவி அளிக்குமாறு தங்களை வேண்டி கேட்டுக் கொள்கிறோம்.

செயல் அலுவலர்
கும்முடிப்பூண்டி பேரூராட்சி
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AUTHORISED SIGNATORY

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BRANCH MANAGER

₹ 1,50,000/- एवं अधिक के लिखत दो अधिकारियों द्वारा हस्ताक्षरित होने पर ही वैध हैं।
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VALID FOR 3 MONTHS ONLY

⑈907739⑈ 000002000⑆ 00047 3⑈ 46

ஸ்ரீ மாத்தம்மா துணை

அருள்மிகு ஸ்ரீ மாத்தம்மா ஆலயம் திருவிழா

கங்கன்தொட்டி, கும்மிடிப்பூண்டி - 601 201.

நன்கொடை ரசீது

எண்: 168

தேதி 20/3/22

திருமதி/திரு Kamalika Devi Sundaram

அவர்களிடமிருந்து நன்கொடையாக ரூபாய் ...... ஒரு லட்சம் ரூபாய்

அன்புடன் பெற்றுக்கொண்டோம்.

ரூ. 100000/-

வசூலிப்பவர்

स्वच्छ गंगा कोष
Clean Ganga Fund

File No: CGF-01/2014-15/518/NMCG
Sr. No. CGF/2021-22/41

12th September 2022

Letter of Acknowledgement & Appreciation

To

M/s KANISHK STEEL INDUSTRIES LTD.
B-27(M) Sipcot Industrial Complex,
Gummidipoondi - 601201
Chennai
PAN: AABCK2367G

Dear Sir,

We hereby acknowledge the receipt of your valuable contribution of **₹ 6,98,200/- (Rupees Six Lakh Ninety Eight Thousand Two Hundred Only)** to Clean Ganga Fund through RTGS UTR NO: HDFCR52022090693932212 dated 06.09.2022

2. We sincerely thank you for contributing to this national endeavor to rejuvenate the River Ganga under your CSR obligations, and request for your continued support in coming years.

3. The donation will be utilized for various activities to support the national effort to restore and rejuvenate the River Ganga, including ecological protection through afforestation, in-situ bioremediation of drains, sewage treatment, river-surface cleaning, industrial effluent monitoring, public outreach and river front development including construction, renovation, and modernization of ghats and crematoria etc.

4. We thank you once again for your contribution and look forward to your continued support in rejuvenating the River Ganga.

CGF PAN No. AABTC7844F

Yours sincerely,

(Bhaskar Dasgupta)
ED (Finance), NMCG
(For CEO, Clean Ganga Fund)

ANNEXURE IX

VOC MONITORING TEST REPORT

CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00700/2025-26 & 10.04.2025**
Sample Number	**N-00700/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	STACK - VOC
Sample Description	**STACK - VOC**
Sampling Location	**12 TON FURNACE STACK NO.1**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	1.9

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

The Report shall not be used to malign, defame and for any malicious purpose.
The Report is issued only for sole use of the addressee.

A - Super 19, T.V.K. Industrial Estate, Guindy, Chennai - 600 032, Tamil Nadu - India

Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00701/2025-26 & 10.04.2025**
Sample Number	**N-00701/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	STACK - VOC
Sample Description	**STACK - VOC**
Sampling Location	**12 TON FURNACE STACK NO.2**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows:

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	2.3

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

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CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

ilac-MRA

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00702/2025-26 & 10.04.2025**
Sample Number	**N-00702/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	AMBIENT - VOC
Sample Description	**AMBIENT - VOC**
Sampling Location	**WEST SIDE OF THE COMPANY - NEAR MAIN GATE**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	BLQ(LOQ:0.2)

BLQ - Below Limit Of Quantification; LOQ-Limit Of Quantification

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00703/2025-26 & 10.04.2025**
Sample Number	**N-00703/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	AMBIENT - VOC
Sample Description	**AMBIENT - VOC**
Sampling Location	**NORTH SIDE OF THE COMPANY - NEAR FURNACE NO.2**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	BLQ(LOQ:0.2)

BLQ - Below Limit Of Quantification; LOQ-Limit Of Quantification

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

ilac-MRA

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00704/2025-26 & 10.04.2025**
Sample Number	**N-00704/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	AMBIENT - VOC
Sample Description	**AMBIENT - VOC**
Sampling Location	**EAST SIDE OF THE COMPANY - NEAR OLD SHED**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	BLQ(LOQ:0.2)

BLQ - Below Limit Of Quantification; LOQ-Limit Of Quantification

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

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SENIOR MANAGER
(CHEMICAL)

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CHENNAI
TESTING LABORATORY PRIVATE LIMITED

CIN : U93000TN2000PTC043869

TC-14234

TEST REPORT

Test Report No & Date	**CTL/CH/N-00705/2025-26 & 10.04.2025**
Sample Number	**N-00705/25-26**
Name of the Customer	**M/S. Kanishk Steel Industries Limited.**
Address	27 (M&N&S), Sipcot Industrial Complex, Peddikuppam, Gummidipondi - 601 201.
Sample Drawn by	Laboratory
Sample Name	AMBIENT - VOC
Sample Description	**AMBIENT - VOC**
Sampling Location	**SOUTH SIDE OF THE COMPANY - NEAR ROLLING MILL**
Sample Drawn on	07.04.2025
Sample Received on	08.04.2025
Sampling Plan & Procedure	CTL/QSP/F-89 & CTL/SOP/AIR/024
Sample Quantity	1 No
Equipment used for Sampling	Tiger XT-100416 Analyser
Analysis Started on	09.04.2025
Analysis Completed on	10.04.2025

Test Results:

The above sample tested as received, and results are as follows

DISCIPLINE : CHEMICAL

GROUP : ATMOSPHERIC POLLUTION

SL.NO	PARAMETERS	METHOD	UNITS	RESULTS
1	TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)	CTL/SOP/AIR/18	ppm	BLQ(LOQ:0.2)

BLQ - Below Limit Of Quantification; LOQ-Limit Of Quantification

END OF REPORT

Verified by

For Chennai Testing Laboratory Pvt Ltd

Authorised Signatory

G.MANIKANDAN
SENIOR MANAGER
(CHEMICAL)

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Phone : +91-44-2250 1757 | E-mail : chennaitesting@chennaitestinglab.com www.ctllabs.in

SOCIAL AUDIT REPORT
FOR THE FINANCIAL YEAR 2023-2024

For



M/S Kanishk Steel Industries Limited

Gummidipoondi Taluk,

Thiruvallur District.

WasmanPro
Environmental Solutions

Report Prepared By

WASMANPRO ENVIRONMENTAL SOLUTIONS LLP.

No7, F3, Sanjeevi Flats, 4th Main Road, Thillaiganga Nagar, Nanganallur,

Chennai -600061

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1. SOCIAL AUDIT

1.1 Introduction:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu. The facility operates on a leased land area of 3.015 hectares (7.45 acres) and is equipped with a 7 MT/heat induction furnace for producing MS Ingots (Metal Cast into specific sizes and shapes).

Currently, the steel melting plant has a production capacity of 6000 TPA of MS Ingots, with an additional 30240 TPA procured locally. The capacity for manufacturing rolled steel products is 54000 TPA. The consent for manufacturing is valid and was renewed until 2021.

KSIL now proposes to increase its production capacity for intermediate products, specifically MS Ingots and Billets, from 36000 TPA to 83000 TPA. Additionally, the production of re-rolled products will rise from 54000 TPA to 76000 TPA. This expansion plan includes the installation of a new 12 MT/heat furnace and a 15 MT continuous casting machine, in addition to the existing plant facilities. The adaptation of Direct Hot Rolling technology will eliminate the need for a reheating furnace in the current rolling mill. The proposed expansion will take place within the existing industry premises, so no additional land is required.



Figure 1: Social audit Flow Diagram

To secure Environmental Clearance from the State Level Environment Impact Assessment Authority and consent for Establishment from the Tamil Nadu Pollution Control Board (TNPCB), a Social Audit has been conducted by the industry.

1.2 Project Proponent:

KSIL is the flagship company of the Kanishk Group, specializing in the production of constructional and structural steel that adheres to the Bureau of Indian Standards (BIS:1786 and IS:2062), which are equivalent to ASTM, BS, and DIN standards. Established in 1991, KSIL's corporate office is located at No. 4/7, Thiru.Vi.Ka. 3rd Street, Royapettah High Road, Mylapore, Chennai. The company's primary objective is the manufacture of iron and steel products, including TMT bars and MS billets.

Project:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu, covering a land area of 3.015 hectares (7.45 acres). The company has proposed an increase in the manufacturing capacity of its intermediate products, specifically MS Ingots and Billets, from 36,000 TPA to 83,000 TPA. Additionally, the production of re-rolled final products is set to rise from 54,000 TPA to 76,000 TPA. This expansion plan includes the addition of a new furnace with a capacity of 12 MT/heat and a continuous casting machine with a 15 MT capacity, supplementing the existing plant facilities. Furthermore, Direct Hot Rolling technology will be implemented to eliminate the need for a reheating furnace in the current rolling mill. The proposed expansion will take place entirely within the existing industry premises, with no additional land required.

1.3 Nature of the Project:

KSIL engages in secondary steelmaking and rolling processes. The plant is classified under the "Orange – Large" category (2063 – Steel and steel products using various furnaces such as blast furnace, open hearth furnace, induction furnace, arc furnace, submerged arc furnace, basic oxygen furnace, hot rolling reheated furnace) as per the latest notification issued by the Tamil Nadu Pollution Control Board.

Size of the Project:

The total cost for the existing infrastructure and the proposed expansion of the steel melting plant and rolling mill is estimated at Rs. 4 crores.

Location of the Project:

M/s. Kanishk Steel Industries Limited (KSIL) is situated at SIPCOT Industrial Complex, Peddikuppam& Old Gummidipoondi Village, Gummidippondi Taluk, Thiruvallur District, Tamil Nadu. The land area encompasses Survey Numbers 275A/2B, 1B of Peddikuppam& 618/(1A, 1A pt, 1A2B pt, 1B2A pt, 1A3 pt), 621A/(1, 2, 3, 4A pt, 4B pt, 4Ba1 pt, 4B2 pt), and 625 part of Old Gummidipoondi Village.

1.4 Process Flow Chart:

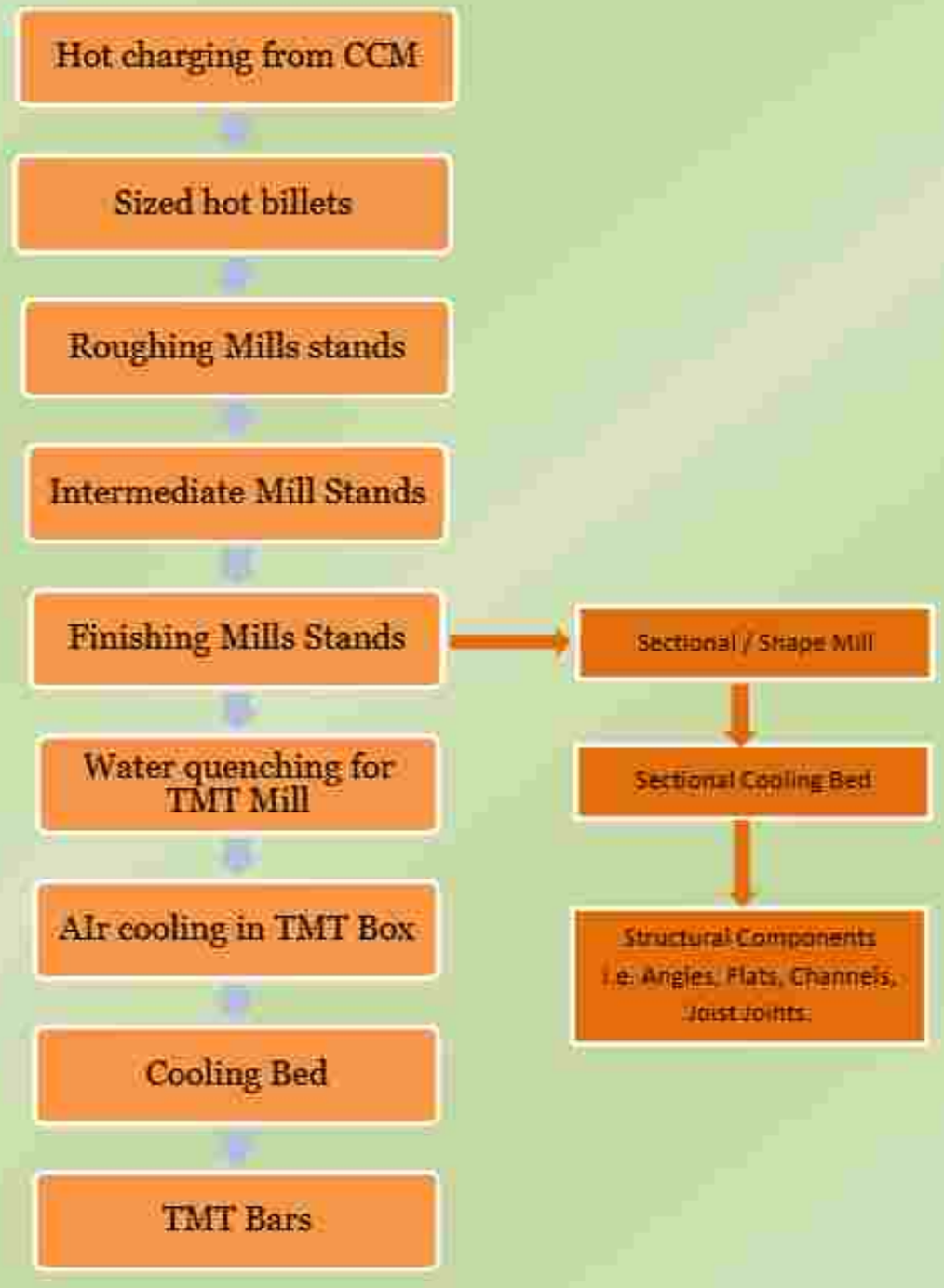


Figure 2: Process Flow Chart

1.5 Social Audit:

A social audit was conducted to identify direct, indirect, cumulative, and induced project-related risks and impacts on physical, biological, socioeconomic, and cultural resources within the project's area of influence. This includes risks and impacts on air and water quality, such as:

(a) Environmental Health;
(b) Natural Resources, Including Land, Water and Ecosystems;
(c) Livelihoods;
(d) Vulnerable Groups;
(e) Gender;
(f) Worker and Community Health and Safety;
(g) Cultural Resources.

On July 22, 2024, Wasmanpro Environmental Solutions LLP, Chennai, was commissioned by Kanishk Steels Industries Limited to conduct a social audit of their plant located in Gummudipoondi, Thiruvallur District. The audit was carried out by a dedicated team from Wasmanpro, including:

Wasmanpro Team and Dr.Dhanalakshmi Arumugam, M.A. (Women Studies), M.Com, MBA, Ph.D.(Consultant - Gender Equality and Social Inclusion Expert)

The social audit adhered to the guidelines outlined in the Code of Practice on Social Audits. An opening meeting to discuss the audit scope and objectives was held on July 23, 2024. An opening meeting was held on 23 July 2024.Mr. Ashok Bohra Director and HOD's of the Departments and senior executives attended the meeting. All the officers were explained about the methodology, objectives and goals of the audit to be conducted and also the audit elements. List of documents to be perused and required for the audit was given to them. An Audit schedule was prepared and circulated to the various Department Heads. Closing meeting was held on 31 July 2024 chaired by Mr. Ashok Bohra and all other HODs. Observations and findings of the auditors were discussed with them.

1.6 Scope of Work:

The assignment primarily involved reviewing the social performance of KSIL's current operations through document analysis and interviews with relevant officials.

- Conducted a site assessment
- Reviewed relevant documentation
- Conducted onsite interviews with key representatives
- Assessed the environmental and social performance of the industry
- Prepared a Social Audit report

Table 1: The scope of work was specifically divided into the following areas:

ENVIRONMENTAL:	SOCIAL:

• Energy Efficiency
• Pollution Prevention
• Soil and Groundwater Impact
  ○ STP
  ○ Cooling Tower
	• Man power Management
	• Working hour, wage and benefits like ESI, Holidays
	• Health and Safety
	• Emergency Preparedness and Response
	• Non-discrimination & Equal Opportunity
	• Anti-harassment & Abuse
	• Workplace Conduct
	• Promotion and Career Development
	• Child Labour and Forced Labour
	• Inclusive Work Environment
	• Accountability for continuous improvement
	• Retrenchment
	• Grievance Mechanism
	• Information Disclosure
	• Corporate Social Responsibility

1.7 Environmental:

1. **Energy Efficiency:**

KSIL has implemented initiatives to improve energy efficiency and reduce greenhouse gas (GHG) emissions, including the adoption of state-of-the-art clean technologies, improving raw material quality, enhancing fuel efficiency, and creating carbon sinks. Some of the Best Available Technologies (BAT) adopted by KSIL for these purposes include:

- Secondary Fume Extraction System in the Steel Melting Shop
- Hot charging of continuously cast products at higher temperatures directly to Rolling Mills
- Direct Rolling Process, eliminating the need for reheating furnaces
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high-capacity electric motors

These technologies and equipment have been installed within the industry premises to enhance energy savings.

2. **Pollution Prevention:**

Kanishk Steel Industries Limited, Gummidipoondi, requested a survey for pollution prevention from the Tamil Nadu Pollution Control Board.

As recommended, the Deputy Chief Scientific Officer from the District Environment Laboratory in Ambattur conducted the following surveys:

a. Ambient Air Quality (AAQ) Survey
b. Stack Monitoring Survey
c. Ambient/Source Noise Level Survey

These surveys were conducted on 26.06.2024, and the Analysis Report was submitted on 02.07.2024. The analysis is valid until March 31, 2033. The results of the analysis are as follows:

Table 2: Ambient Air Quality Survey:

Sl. No.	Location	Direction	Distance (m)	Height from GL (m)	Pollutants Concentrations			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1.	On Top of Scaffolding Near Admin Building	NE	60	2.0	68.1	-	13.5	15.6
2.	On Top of Scaffolding Near labour quarters	E	50	2.0	89.1	38.4	16.6	19.1
3.	On Top of Scaffolding Near storage yard	SE	60	2.0	72.1	-	16.2	18.8
4.	On Top of Scaffolding Near stores	SW	70	2.0	85.6	-	17.1	19.7
5.	On Top of Scaffolding Near Laboratory NW	NW	80	2.0	70	40.1	18.3	21.2

Table 3: Stack Monitoring Survey Results:

Sl. No.	Stack attached to	Stack Temp in K	Velocity in (M/Sec)	Discharge Rate in (Nm^3/hr)	Pollutants (mg/NM^3)		
					$PM_{2.5}$	SO_2	NO_2
1.	Induction furnace – 7 Ton Fuel – EB APC Measure – Bag Filters	416	11.8	34399	50.1	101.3	130.9
2.	Induction Furnace – 12 Ton Fuel : - EB APC Measure – Bag Filters	403	11.1	33401	48.5	106.6	134.5

Table 4: Ambient/Source Noise Level Survey Results:

Sl. No.	Location	Duration (min)	Distance (m)	Directions	Sound Level – dB(A)		
					Leq	LMin	LMax
1.	Near Admin Building	30	60	NE	70.5	66.2	85.2
2.	Near Labour quarters	30	50	E	74.0	70.6	88.6
3.	Near storage yard	30	60	SE	69.4	65.3	82.6
4.	Near stores	30	70	SW	72.6	69.4	87.3
5.	Near laboratory	30	80	NW	65.1	61.3	78.2

So, there is no air and noise pollution in the industrial premises.

3. Soil and Groundwater Impact

KSIL is receiving water from SIPCOT Water Supply. Water Requirement for the KSIL:

Sl. No.	Category	Requirement (KLD)	
		Existing	After Expansion
1.	Domestic Purposes	6.8	8.75
2.	Machinery Cooling	21.0	33
3.	Scrubber Make – up	2.0	3.5
	Total Requirement	29.8	45.25

a. Sewage Treatment Plant:

The sewerage generation will be 7.9 KLD and it will be treated in the existing sewage treatment plant of capacity 10 KLD. The details of STP components are:

Table 5: STP Components

Sl. No.	Components	Dimension (in meters)
1.	Sewage transfer pump	1 HP
2.	Air Blower in C.I.	Twin lope – 2 Nos. 25 m3/hr
3.	Disc diffuser – PP with EPDM	2 Nos.
4.	Aeration Tank in MS	1.5 m x 1.5 m x 3.0 m TD
5.	Setting Tank in MS	1.5 m x 1.5 m x 2.5 m (HOS)
6.	Filter Feed Pump	1 HP
7.	Sludge drying beds – BW	1.0 m x 1.0 m x 1.0 m TD-3 Nos.
8.	Pressure sand filter – in MS	0.3 m x 1.1 m HOS
9.	Activated carbon filter – in MS	0.25 m x 0.9 m HOS
10.	UV system	2000 LPH
11.	Treated water tank	1000 L

From the sewage holding tank, sewage will be pumped through a pump, which may be placed either inside or outside the tank, to the aeration tank. Before reaching the aeration tank, the sewage passes through a bar screen to remove coarse floating particles. Blower air agitation is provided to ensure proper equalization and to prevent septic conditions and foul odors. The sewage is biologically oxidized using a twin-lobe air blower. The aerated wastewater is then allowed to settle in a settling tank, where suspended biological floc is removed by gravity.

The treated water from the settling tank is transferred to a separate tank and then pumped to the Pressure Sand Filter (PSF) and Activated Carbon Filter (ACF) to remove any remaining colloidal particles, BOD, and COD. The treated water from the outlet of the Activated Carbon Filter is then sterilized in a UV sterilizer and collected for use in gardening and flushing.





Figure 3: STP PLANT COMPONENTS



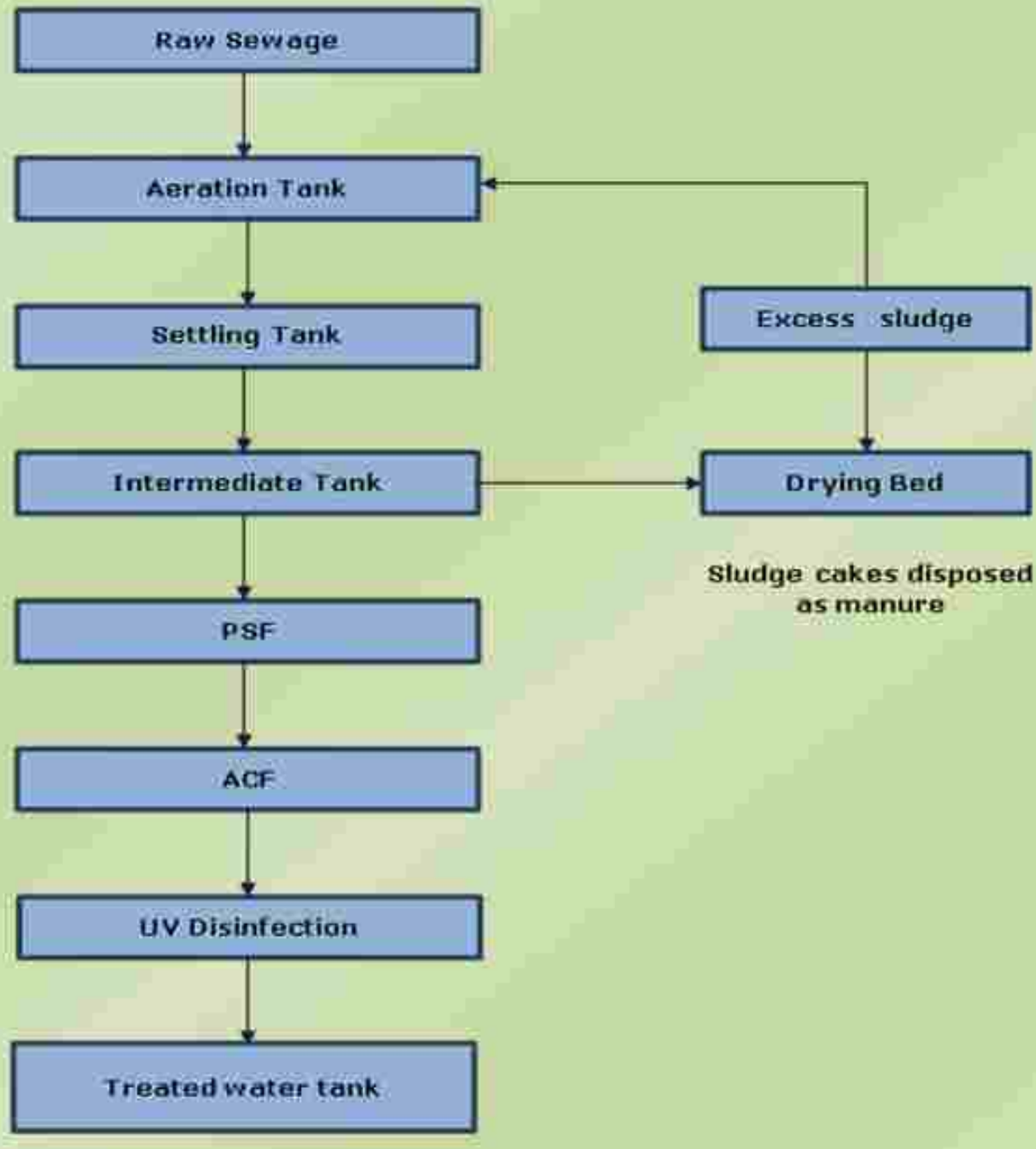


Figure 4: Sewage Treatment Plant Diagram



Aeration Tank

Drying Bed





Treated Water Tank

Cooling Tower:

Water cooling towers are used to cool water circulating in the system, which helps maintain ideal process temperatures.Hot water from the production equipment or condenser is pumped into the tower's basin.Nozzles spray the water into small droplets across a fill media inside the tower. This increases the water's surface area, which allows for more heat loss through evaporation. Fans at the top of the tower pull in air from the bottom and move it up and out in the opposite direction of the water. The air mixes with the water, carrying heat away through evaporation into the atmosphere. The cooled water collects in a basin below the fill media. The cooled water is then pumped back into the system to be used again.The process is enclosed herewith. Thus, KSIL is ensuring zero waste water and also ensure soil protection.

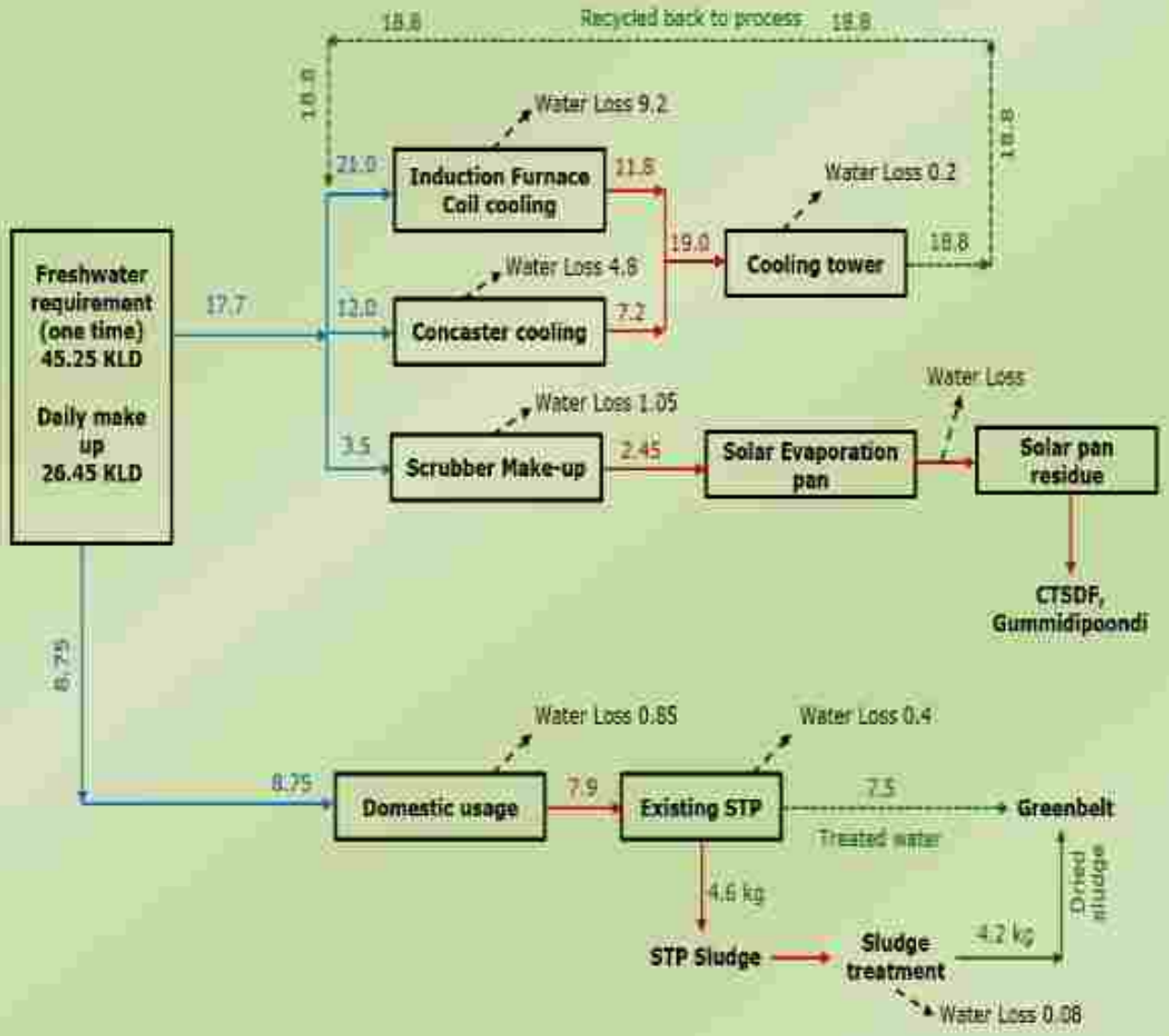




Figure 5: COOLING TOWER COMPONENTS





1.8 Social Audit:

1.8.1 Man Power Management:

KSIL has entered into a 12-month contract with M/s. Asha Ram, located at Ward No. 9, Meetha Manjra, Nagaur, Rajasthan – 3412022, for job work involving the handling of M.S. Sections and Flats from the cooling bed to the stockyard at the production site. According to the contract, the contractor is responsible for providing all necessary tools, safety equipment, and proper attire for the workers. The contractor will also supply the required number of skilled workers as needed by the factory to ensure the smooth and timely delivery of materials.

KSIL will pay the ESI/PF contributions for the workers, with the corresponding amount being deducted from the contractor's monthly payment as per regulations. Additionally, the contractor is required to obtain a contractor's license from the Director of Industrial Safety and Health Department in Chennai. This contract may be renewed for an additional period based on mutual agreement.

Similarly, KSIL has also entered into a contract with M/s. Premaram& Sons, located at No. 9-1-34/30/22, 23 Bapu Nagar, Langer House, St. Anthony's High School, Hyderabad, Andhra Pradesh – 500 008, for job work involving the cutting and shifting of M.S. Sections and Flats from the cooling bed to the stockyard at the production site.

The terms of this contract mirror those of the agreement with M/s. Remaram, the contractor is responsible for providing necessary tools, safety equipment, and appropriate attire for the workers, as well as ensuring the availability of skilled workers as needed. ESI/PF contributions for the workers will be paid by KSIL, with deductions made from the monthly payment. The contractor must also obtain a contractor's license from the Director of Industrial Safety and Health Department in Chennai. This contract may also be renewed based on mutual consent.

1.8.2 Human Resources Policies and Procedures

For production activities, KSIL places significant emphasis on the recruitment process to ensure that only qualified and reliable staff and workers are employed. After receiving a candidate's resume, which must be accompanied by their Aadhaar card and passport-size photos, a thorough preliminary investigation is conducted. This investigation examines the candidate's past working history, focusing on their previous employment, skills, and any concerns that may have arisen in their previous roles.

The aim is to assess the candidate's suitability for the role, ensuring they align with the company's standards and values. The experience certificates of the candidates are meticulously maintained in company files, serving as a record and reference for future evaluations. Thus, KSIL underscores the company's commitment to maintaining a skilled and trustworthy workforce, minimizing the risk of hiring unqualified or unsuitable personnel.

KSIL is committed to maintaining a comprehensive set of policies that ensure fairness and transparency in employee management. They adhere to a strict salary payment schedule, ensuring that all employees receive their salaries before the 7th of every month, which helps in maintaining financial stability for the workforce. In addition to regular salaries, it recognize the efforts and contributions of the employees by providing a bonus equivalent to one month's salary each year, fostering motivation and loyalty.

Understanding the importance of well-being and education, the company extends its support by covering medical and education fees for employees, tailored to their family circumstances and experience levels. This policy underscores their commitment to the holistic well-being of the employees and their families.

1.8.3 Working hour, wage and benefits

KSIL has established a clear policy regarding working hours to protect its employees from overwork and ensure a balanced work-life dynamic. No worker or staff member is allowed to work more than 12 hours a day, including a maximum of 4 hours of overtime when absolutely necessary. This policy is designed to prevent fatigue and burnout, which can lead to decreased productivity and increased risk of accidents.

The company monitors adherence to this policy closely, ensuring that all overtime work is properly recorded and compensated in accordance with labor laws. This regulation reflects the company's commitment to safeguarding the health and well-being of its workforce, recognizing that a rested employee is a more efficient and effective one.

KSIL maintain a minimum salary benchmark of Rs. 16,500 per month, ensuring that all employees are compensated fairly for their work, in alignment with industry standards. Furthermore, the employment contracts include a one-month notice period, which is required for both resignation and termination, allowing adequate time for transition and minimizing disruptions.

In unfortunate circumstances such as the death of an employee, KSIL ensure that the designated family member receives the gratuity payment as a form of financial support. For example, after the passing of Mr. B Ramu, who dedicated 13 years of service to the company until April 2023, a gratuity amount of Rs. 1,46,094 was settled in full to his wife, Mrs. R. Vidya. This policy reflects their commitment to supporting the families of our employees during difficult times.

These policies are designed to create a supportive, fair, and transparent work environment where employees are valued and cared for, both in their professional and personal lives.

1.8.4 Employee State Insurance (ESI):

The Employee State Insurance (ESI) policy is part of the company's commitment to providing social security and health insurance benefits to its employees, particularly those in lower-income brackets. The ESI scheme is a self-financing social security and health insurance scheme for Indian workers, providing medical care and financial assistance in case of sickness, maternity, disability, and death due to employment injury.

It outlines that both the employer and the employee contribute to the ESI fund. Typically, a certain percentage of the employee's wages is deducted as their contribution, while the employer also makes a contribution. The company ensures that these contributions are made regularly and are in accordance with the statutory requirements.

It also provides detailed information on the benefits available to employees under the ESI scheme. These benefits include medical care for the insured employee and their dependents, cash benefits during periods of sickness, maternity leave, disability, and in the unfortunate event of death due to an employment-related injury, financial compensation is provided to the family of the deceased.

As part of the ESI policy, the company arranges regular medical check-ups every fortnight, ensuring the health and well-being of its employees. KSIL also provides access to a treatment room with essential facilities such as beds and oxygen on the factory premises. This aligns with the ESI scheme's objective to provide comprehensive healthcare to employees. KSIL is responsible for the accurate and timely filing of ESI returns every month. This ensures that the records of contributions and benefits are kept up to date and that employees can access their entitled benefits without delay. Proper documentation and record-keeping are emphasized to avoid any discrepancies or legal issues.

Further, KSIL ensures that employees are fully informed about their rights and benefits under the ESI scheme. By adhering to these, KSIL ensures that it meets its legal obligations while also providing essential support and protection to its employees, contributing to a secure and healthy work environment.

1.8.5 Holidays:

KSIL's policy on holidays is meticulously planned and communicated to all employees. Government-declared holidays are observed and respected, providing employees with the necessary breaks throughout the year. To facilitate proper planning, the company declares all holidays for the upcoming year by October 31st of the previous year. This information is prominently displayed on the notice board, ensuring that all staff and workers are informed well in advance. This approach not only aligns with statutory requirements but also demonstrates the company's respect for its employees' time, allowing them to plan personal commitments and rest periods effectively.

1.8.6 Health and Safety:

Health:

The company is dedicated to ensuring the safety and well-being of all its employees, both technical and non-technical. To this end, safety equipment including helmets, safety shoes, hand gloves, goggles, and face masks are provided regularly. It ensures that all workers entering the work area are properly equipped to handle the tasks at hand, reducing the risk of injury or accidents. The company takes this responsibility seriously, regularly inspecting and updating safety gear to comply with industry standards. By providing these essential protective items, the company not only complies with occupational safety regulations but also fosters a culture of safety and awareness among its employees.

Agreement with M/s. HNX Healthcare Private Limited:

KSIL places a high priority on the health and safety of its employees by partnering with nearby medical facilities, specifically M/s. HNX Healthcare Private Limited, to provide operation and maintenance of health checkups and OPD/IP services for both current and retired employees and their dependents at ALPHA Hospital, located at 3402 A, Raju Complex, Pappankuppam Village, Opp. MITSUBA, Gummidipoondi, which operates as a 24-hour facility.

This partnership ensures that employees have immediate access to professional medical care in case of health emergencies. Regular medical check-ups are conducted every fortnight for all laborers and staff, facilitating the early detection and treatment of any health issues. Additionally, the factory premises are equipped with a treatment room that includes beds and oxygen facilities to address immediate medical needs.

Benefits:

- In-Patient Services: A 10% discount is offered, excluding medicines, implants, and consumables. However, this discount is not applicable if the patient's treatment expenses are covered by health insurance.
- Out-Patient Services: A 10% discount is provided on investigations and consultations.
- Health Camps and Awareness: Half-yearly health check-up camps and quarterly health awareness talks on topics such as personal hygiene, HIV/AIDS, and COVID-19 are provided free of charge.

- Ambulance Services: Free ambulance services are available for in-patient admissions within Chennai limits.
- Home Care Services: Home care services, including a doctor and nurse along with necessary medicines, will be provided based on emergency needs. Special consideration is given when KSIL issues a confirmation letter for the employee or retired person requiring care.
- Health Checkup Packages: Health checkup packages are priced at Rs. 3999 for male employees and Rs. 4499 for female employees, as agreed with HNX Healthcare.
- Documentation: Employees must present an authority letter and employee ID card to avail of the benefits.
- Payment:All payments are made by Kanishk Steel.

Furthermore, Alpha Hospital has provided training in Basic Life Support (BLS). Senior officials of KSIL participated in First Aid Training – Senior Level, equipping them to manage emergency situations. Certificates for some of the trained officers are annexed for reference.


ALPHA HOSPITAL

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

Sgumaran T

has participated in First Aid Training - Senior Level at ALPHA HOSPITAL GUMMIDIPOONDI in association with Chakra Critical Care Centre and Hospital Chennai held on 19/01/2023

Dr. Girish Devanadan.P

Dr. Amirthalingam Manoharan


ALPHA HOSPITAL

TRAINING IN BASIC LIFE SUPPORT (BLS)
CERTIFICATE OF PARTICIPATION

This to certify that

K.V. Babu

Dr. Amirthalingam Manoharan



KSIL has also arranged for a Medical Officer to provide periodic health services. The Medical Officer visits the industry fortnightly, offering healthcare services to the employees.





In addition to the above arrangements, KSIL is committed to ensuring the health and safety of its employees by establishing a treatment center within the industry premises. The center is equipped with an emergency medical kit, first aid supplies, medicines, and a resting bed, all as recommended by the Medical Officer.



Figure 6: Treatment Center at KSIL

The management has implemented a system for health monitoring by providing a Master Medical Health Check-up every six months in collaboration with Alpha Hospital, Gummidippondi.

Nutritious Meals Provision:



The company provides a canteen facility to ensure that all staff and workers have access to nutritious meals. Additionally, provisions are made for tea expenses, particularly for night duty staff, who receive extra tea to accommodate the demands of their work shifts. This comprehensive approach to health and safety highlights the company's commitment to fostering a supportive and healthy work environment.In summary, KSIL has established a work environment and conditions that adhere to national occupational health standards and requirements.

Figure 7: Nutrition Meals to Workers

Safety:

KSIL is ensuring the wearing of appropriate personal protective equipment in all operations where there is an exposure to hazardous conditions or where this part indicates the need for using such equipment to reduce the hazards to the employees. KSIL is providing personal protective equipment (PPE) to all the employees who are all working in the factory. It includes Shoes, Gloves, Industrial Helmet, Goggles, Apron, etc.





Figure 8: Employees with Personal Protective Equipment (PPE)

1.8.7 Emergency Preparedness and Response

KSIL is having fire protection system to be followed throughout all phases of the manufacturing process.KSIL is also organized a Fire Mock Drill with the support of the Fire Officer of Fire and Rescue Station, Gummidipoondi – SIPCOT on April 03, 2023. Staff, Industry workers, Security staff, Housekeeping workers are all attended the programme. This was also certified by the Fire Officer.

This Mock drill includes DG Pump, main pump and jockey pump operating system in pump room panel board and training given to operate all the hydrant point and monitor system with firefighting during summer seasons to all the staff and operate the hydrant system first aid firefighting portable extinguisher in the factory premises at the time of emergency. Evacuation Drill Exercise also trains for Disaster Control Management Plan to all staff by factory norms.



Figure 9: Mock Drill Conducted at KSIL





KSIL is having sufficient automated machines for raw material handling and finished products handling. So, there is no hazardous material handling by the workers.

Thus, KSIL comply with laws concerning occupational safety, strengthen safety management and establish a sound work safety system.



Figure 10: Fire Extinguishers provided at KSIL

1.8.8 Non-Discrimination and Equal Opportunity:

The Non-Discrimination and Equal Opportunity serves as a cornerstone for creating an inclusive, respectful, and fair workplace where all employees have the opportunity to succeed, regardless of their background or personal characteristics. KSIL ensures that every individual is treated equally in all aspects of employment, including recruitment, hiring, promotion, compensation, benefits, training, and termination.It is impossible for women to

engage in labor in factories. Equal opportunity and prejudice won't occur as a result. Additionally, KSIL employs women for support and administrative roles.

1.8.9 Anti-Harassment & Abuse :

It is designed to ensure that all employees are treated with dignity and respect, fostering a workplace environment that is free from harassment, abuse, and any form of inappropriate behavior. This is crucial in maintaining a positive and safe work environment where all employees can perform their duties without fear of discrimination, intimidation, or retaliation.

KSIL enforces a strict zero-tolerance policy towards any form of harassment or abuse, whether verbal, physical, sexual, or psychological. Harassment includes any unwanted or unwelcome conduct that violates an individual's dignity or creates an intimidating, hostile, or offensive environment. This includes but is not limited to inappropriate jokes, unwelcome comments, threats, physical assault, or any behavior that can be construed as harassment.

It also provides clear guidelines on how employees can report incidents of harassment or abuse. Employees are encouraged to report such incidents immediately to their supervisors, HR department, or through designated channels such as a confidential hotline. The company commits to investigating all complaints thoroughly and promptly, ensuring that the rights of both the complainant and the accused are respected during the investigation process.

To protect victims of harassment and abuse, it includes provisions for immediate support, including counseling services, if necessary. The company guarantees that no employee will face retaliation for reporting harassment or abuse in good faith. Any attempt to retaliate against a complainant or witness is treated as a serious violation of company policy and is subject to disciplinary action.

It outlines the disciplinary actions that may be taken against those found guilty of harassment or abuse, ranging from warnings and mandatory training to suspension or termination of employment. KSIL emphasizes its commitment to creating a safe and respectful workplace and will take all necessary steps to enforce this policy effectively.

1.8.10 Workplace Conduct:

It sets clear expectations for employee behavior, emphasizing that discrimination, harassment, and bullying will not be tolerated under any circumstances. It outlines the procedures for reporting incidents of discrimination and ensures that complaints are addressed promptly and thoroughly. KSIL company commits to protecting individuals who report discrimination from retaliation, ensuring a safe and supportive environment for all employees.

1.8.11 Promotion and Career Development:

It guarantees that all employees have equal access to promotion opportunities and professional development resources. Decisions regarding promotions, training, and career advancement are made based on performance, skills, and potential, without regard to any protected characteristic. The organization provides mentoring and support programs to help all employees reach their full potential.

1.8.12 Child Labor, Forced Labor

In alignment with ethical labor practices and the law, the company strictly prohibits the employment of child labor on its campus. This policy is non-negotiable and is enforced rigorously to ensure compliance with national and international labor standards. Additionally, the company enforces a zero-tolerance policy towards the use of liquor and tobacco within its premises. This prohibition is intended to promote a safe, healthy, and productive work environment, free from the distractions and dangers associated with substance abuse. Employees are expected to adhere to this policy strictly, and any violations are dealt with severely, reinforcing the company's commitment to a responsible and respectful workplace culture.

1.8.13 Inclusive Work Environment:

It extends beyond legal compliance, aiming to cultivate a workplace culture that values and celebrates diversity. The company organizes regular training sessions on diversity, equity, and inclusion, helping employees understand the importance of these principles in fostering collaboration and innovation. KSIL also encourages the formation of employee resource groups, where individuals can connect, share experiences, and support one another.

1.8.14 Accountability and Continuous Improvement:

To ensure the effectiveness of the Non-Discrimination and Equal Opportunity Policy, KSIL regularly reviews and updates its practices and policies. Feedback from employees is encouraged, and the organization monitors its progress in achieving diversity and inclusion goals. The company also holds managers and leaders accountable for upholding these standards, recognizing that their commitment is vital to creating a truly inclusive workplace.

By implementing and adhering to this policy, KSIL demonstrates its dedication to creating a work environment where everyone has the opportunity to succeed, free from discrimination and bias. This not only aligns with legal requirements but also reflects the company's values of respect, fairness, and equality for all.

1.8.15 Retrenchment:

It provides a framework for managing workforce reductions in a manner that is fair, transparent, and compliant with legal requirements. Retrenchment, which involves the reduction of staff due to economic reasons, restructuring, or other business needs, is treated with sensitivity and responsibility to minimize the impact on affected employees.

It clearly outlines the criteria used to determine which employees may be retrenched. These criteria are based on factors such as seniority, performance, skills, and the business's operational needs. It ensures that the process is conducted fairly, without discrimination or bias, and in compliance with labor laws and regulations.

Employees who are selected for retrenchment are given adequate notice, as stipulated by law, and are provided with all necessary information regarding their entitlements. KSIL ensures that retrenched employees receive fair compensation, including severance pay, any outstanding wages, and other benefits to which they are legally entitled. This compensation is intended to support employees during their transition period.

KSIL also ensures that retrenched employees are treated with respect and dignity throughout the process, recognizing the emotional and financial impact of retrenchment. KSIL strictly adheres the retrenchment process is transparent and justified.

1.8.16 Grievance Mechanism:

It is an essential part of KSIL's commitment to resolving employee concerns and maintaining a harmonious workplace. This policy provides a structured and transparent process for employees to raise grievances related to their employment, working conditions, or treatment at work.

It ensures that all employees have access to a fair and straightforward process for lodging grievances. Employees are encouraged to report any concerns or dissatisfaction to their immediate supervisors without fear of retribution. KSIL provides multiple channels for submitting grievances, including written forms, direct communicationor through an anonymous complaint system.

Once a grievance is submitted, it mandates that it be addressed promptly and impartially. KSIL commits to investigating the grievance thoroughly, ensuring that all parties involved have the opportunity to present their side of the issue. The goal is to resolve the grievance as quickly as possible, minimizing disruption to the workplace and maintaining employee morale.

It guarantees confidentiality throughout the grievance process, protecting the privacy of the individuals involved. Employees are assured that their grievances will be handled with discretion and that they will not be subject to any form of retaliation or adverse treatment as a result of raising a concern.

After a grievance is resolved, KSIL ensures that the outcome is communicated to the employee who raised the issue, along with any actions taken or changes implemented as a result of the grievance. It also includes a follow-up process to ensure that the resolution is effective and that the issue does not recur. Feedback from employees on the grievance process is encouraged, helping the company improve its procedures and address any systemic issues.

1.8.17 Information Disclosure

The Information Disclosure Policy outlines the guidelines and protocols for handling and sharing sensitive information within and outside the organization. This policy is crucial in

maintaining the confidentiality, integrity, and security of company data and personal information of employees, clients, and business partners.

It specifies that all employees are obligated to protect confidential information. This includes proprietary business information, employee records, client data, and any other sensitive material that could impact the company's operations or reputation if disclosed improperly. Employees are expected to handle such information with the utmost care and are only permitted to share it with authorized personnel or external parties who have a legitimate need to know.

Access to confidential information is restricted to those who require it to perform their job duties. The policy requires that all employees who are granted access to sensitive data undergo training on how to handle and protect it. Information disclosure to external parties must be approved by higher management and should be covered by non-disclosure agreements (NDAs) to prevent unauthorized use or distribution of the information.

It also ensures that KSIL complies with all applicable laws and regulations regarding information disclosure, such as data protection laws. This includes obligations to disclose certain information to government authorities or during legal proceedings, but even in these cases, the disclosure must be managed carefully to protect the company's interests.Any unauthorized disclosure of information is treated as a serious violation of KSIL's policy.

Employees are encouraged to report any incidents of accidental or deliberate data breaches. The policy outlines the consequences of failing to adhere to these guidelines, which may include disciplinary actions, up to and including termination of employment, and legal action if necessary.

To further support employee well-being, KSIL implements mandatory awareness programs covering factory procedures, ethics, medical facilities, food facilities, ESL, personal hygiene, HIV/AIDS, COVID-19, and other important topics. These programs are designed to ensure that employees are well-informed about safety protocols, health practices, and available resources, thereby enhancing the overall approach to workplace health and safety.

1.8.18 Corporate Social Responsibility:

M/S. Kanishk Steel Industries Ltd. has demonstrated a profound commitment to social responsibility through its various CSR initiatives, focusing on environmental sustainability, community well-being, and educational support. The company's efforts are centered in the Gummidipoondi Panchayat and surrounding regions, where they have undertaken a series of projects to address critical issues such as water scarcity, education, and sanitation. Below is a comprehensive report detailing these initiatives:

1.8.19 Addressing Water Scarcity:

Water scarcity is a significant challenge in many rural areas, and M/S. Kanishk Steel Industries Ltd. has made notable efforts to provide sustainable solutions to this pressing issue.

a. Drinking Water Infrastructure in Gummidipoondi Panchayat by installation of a Borewell and Water Tank:

KSIL recognized the dire need for clean drinking water in the Gummidipoondi Panchayat and responded by installing a drinking water borewell. Complementing this, a large water tank was also constructed, ensuring a reliable and continuous supply of drinking water to the local community. This initiative provides both an immediate relief and a long-term solution to the water scarcity problem, significantly improving the quality of life for the residents.

b. Expansion of Water Supply to Neighboring Villages by constructing of a Drinking Water Pipeline in Ganganthotti Village:

Extending their efforts beyond the immediate vicinity, M/S. Kanishk Steel Industries Ltd. constructed a drinking water pipeline in Ganganthotti village. This initiative ensures that the residents of this village have access to safe and clean drinking water, which is essential for their health and well-being. The pipeline is a crucial infrastructure development that addresses the water needs of the entire community, thus enhancing the overall living conditions.

c. **Additional Water Resources in Ganganthotty Village by installating Heavy-Duty Hand Pumps:**

Further addressing the water scarcity issue, the company has planned the installation of two heavy-duty hand pumps in Ganganthotty Village. These pumps, which will be accompanied by bore drilling and the construction of a platform, are intended to provide an additional and easily accessible source of clean drinking water for the villagers. This initiative is expected to have a significant positive impact on the health and well-being of the local population by ensuring consistent access to essential water resources.

1.8.20 Supporting Education and Educational Infrastructure:

M/S. Kanishk Steel Industries Ltd. recognizes the critical role that education plays in community development and has undertaken several initiatives to support and enhance educational opportunities in the region.

a. **Donation of School Bag Kits in Vivekananda Nagar:**

Understanding the importance of equipping students with the necessary tools for learning, the company has donated school bag kits to the primary school in Vivekananda Nagar. These kits, which include essential educational materials, are intended to support the students in their studies and contribute to their academic success. By providing these resources, KSIL is investing in the future of the community, ensuring that the younger generation has the tools they need to thrive.

b. **Investment in School Infrastructure by constructing of Retaining Walls at Government Elementary School, Ma Po Si Nagar:**

As part of its commitment to improving educational infrastructure, M/S. Kanishk Steel Industries Ltd. has proposed the construction of retaining walls at the Government Elementary School in Ma Po Si Nagar, Gummidipoondi. This project is crucial for protecting the school premises from environmental degradation, such as erosion, and ensuring a safer and more secure environment for the students. The retaining walls will not only preserve the school grounds but also contribute to the overall safety and stability of the educational environment.

1.8.21 Improving Sanitation Facilities:

Sanitation is a fundamental aspect of public health, and M/S. Kanishk Steel Industries Ltd. has made significant strides in improving sanitation facilities in the region, particularly in schools and public areas.

Sanitation Facilities at Ma Po Si Nagar and Ganganthotty Village:

Recognizing the critical importance of proper sanitation in maintaining public health, KSIL has planned the construction of toilets at the Government Elementary School in Ma Po Si Nagar and in Ganganthotty Village. These sanitation facilities will address the hygiene needs of the students and the broader community, promoting better health practices and reducing the risk of disease. This initiative is expected to have a lasting impact on the well-being of the local population, particularly in terms of improving hygiene and sanitation standards in the area.

1.8.22 Environmental Sustainability Initiatives:

Beyond addressing immediate community needs, M/S. Kanishk Steel Industries Ltd. has also undertaken several initiatives aimed at promoting environmental sustainability and enhancing the green cover in the region.

a. **Large-Scale Afforestation Projects:**

One of the most significant environmental initiatives undertaken by the company is the plantation of 3,000 trees in the Thiruvallur district, particularly in the Gummidipoondi region. This large-scale afforestation project was carried out in collaboration with local communities and government authorities, highlighting the company's commitment to environmental sustainability. The project not only contributes to increasing the green cover in the region but also plays a vital role in restoring ecological balance and enhancing the local environment.

b. **Focused Plantation Efforts:**

In addition to large-scale afforestation projects, M/S. Kanishk Steel Industries Ltd. also undertook specific plantation efforts, such as the planting of 150 trees in targeted areas. These efforts are equally important, as they contribute to the overall green initiatives in the region and help to create a healthier environment. The company's approach includes not only planting trees but also ensuring their survival and growth through proper care and maintenance.

c. Environmental Restoration of Thamarai Lake:

M/S. Kanishk Steel Industries Ltd. also participated in the environmental restoration of Thamarai Lake in Gummidipoondi by planting trees around the lake area. This initiative contributes to the ecological balance of the lake and provides a greener environment for the surrounding community. The restoration of the lake is a significant step towards preserving local water bodies and enhancing the natural beauty of the area.

d. Plantation of Trees in Factory Area:

Within their industrial premises in Gummidipoondi, M/S. Kanishk Steel Industries Ltd. has taken steps to improve the local environment by planting trees in the factory area. This greening effort not only enhances the aesthetics of the industrial space but also contributes to the overall environmental health of the region.

e. Weld Mesh for Tree Protection:

To ensure the protection and survival of the planted trees, the company procured essential protective materials such as weld mesh. An order for 13 rolls of weld mesh from Nitin Wires and Meshes Pvt. Ltd. was placed to safeguard the young trees from external threats, such as animals or human activities. This comprehensive approach to afforestation demonstrates the company's commitment to environmental sustainability by not only planting trees but also ensuring their long-term growth and protection.

f. Tree Donation to Gummidipoondi Town Panchayat:

As part of their broader commitment to environmental sustainability, M/S. Kanishk Steel Industries Ltd. donated trees to the Gummidipoondi Town Panchayat. This contribution supports the greening of public spaces and aligns with the company's goal of enhancing the local environment and supporting community-led green initiatives.

M/S. Kanishk Steel Industries Ltd.'s CSR initiatives are a testament to the company's commitment to social responsibility and environmental stewardship. By addressing critical issues such as water scarcity, education, sanitation, and environmental sustainability, the company has made a significant impact on the lives of the residents in the Gummidipoondi Panchayat and surrounding areas. These initiatives reflect a holistic approach to community development, combining immediate relief with long-term

solutions that ensure the well-being of the community and the preservation of the environment. Through their dedicated efforts, M/S. Kanishk Steel Industries Ltd. has established itself as a responsible corporate citizen, deeply invested in the welfare of the communities it serves.



Figure 11: Rain Water Harvest Pit & Green Belt Development



Figure 12: Green Belt Development In & Around Industry

1.8.23 RECOMMENDATIONS:

At Kanishk Steel Industries Ltd., the establishment of comprehensive HR policies supported by robust SOS (Standard Operating Procedure) guidelines is crucial for creating a fair, transparent, and resilient work environment. HR policies serve as the foundation for managing employee relations, ensuring legal compliance, and fostering a positive workplace culture. By formalizing practices such as timely salary disbursement before the 7th of each month, providing annual bonuses, and offering medical and educational support, the company demonstrates its commitment to employee welfare and satisfaction. Additionally, implementing clear policies for workplace safety, employment and termination, training and development, and diversity and inclusion ensures that employees are treated fairly and consistently, which reduces conflicts and protects the company from legal challenges.

The importance of having well-defined SOS guidelines in place cannot be overstated, as they are essential for safeguarding employee well-being and maintaining business continuity in emergencies. These guidelines should include provisions for emergency response, such as safety drills, first aid procedures, and inclusive measures for all employees, including those with disabilities.

By adopting these SOS guidelines and integrating them with HR policies, M/s Kanishk Steel Industries Ltd. can ensure that employees are prepared for crises, protecting its most valuable asset, its people, while minimizing operational disruptions. Regular training, clear communication, and continuous review of these policies and guidelines will enhance employee trust, organizational stability, and position the company as a responsible and forward-thinking employer.

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Dr.Dhanalakshmi Arumugam
M.A. (Women Studies), M.Com, MBA, Ph.D.
Consultant - Gender Equality and Social Inclusion Expert

ANNEXURE - XI

SAFETY TRAINING SESSION

SAFETY TRAINING SESSION

PLACE:

OP STEELS LTD

B-27 (M) SIPCOT Industrial complex,

GUMMUDIPOONDI - 601 201.

Date: 26th May, 2023.

By

Deputy Director (DISH) Mr.Durairaj

Deputy Director (DISH) Mr. G.Ashok

Director OP Steels Ltd Mr. Ashok

Participants : Staff & Employees of M/s OP Steels Ltd.





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ANNEXURE – XI

SAFETY AUDIT REPORT

KANISHK

STEEL INDUSTRIES LIMITED,

Plot No. B27(M), SIPCOT Industrial Estate,

GUMMIDIPOONDI-601201



SAFETY AUDIT

KANISHK STEELS
Quality in Every Inch

Plot No. B27(M), SIPCOT Industrial Estate,
GUMMIDIPOONDI-601201

SAFETYAUDITREPORT

CONDUCTEDBY

WasmanPro
Environmental Solutions

Wasmanpro Environmental Solutions LLP
Chennai

ACKNOWLEDGEMENT

Thanks to the Management of KANISHK STEEL INDUSTRIES LIMITED, in general, Particularly Mr. Ashok Bhora, Director for reposing their trust and confidence in the professional competence of Wasmanpro Environmental Solutions LLP.,Chennai.

Also, Thanks to all the Head of Departments / Sections and other Executives of the Billet Furnace and Rolling Mill Division for evincing keen interest in the Audit activity and for extending their full support and cooperation to the Safety Audit Team in conducting the audit.

For the excellent coordination and planning by Mr Ashok Bhora, Director fully supported and extended the cooperation to complete the Audit within the stipulated time.

The courtesy and hospitality extended to the audit team by the Terminal Management are gratefully acknowledged.

Wasmanpro
Environmental Solutions LLP
Chennai

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EXECUTIVE SUMMARY

The information presented in the report is based on perusal of various documents and internal records, sample inspection of site and discussions held with employees and management representatives. The recommendations made herein in the report, are based on the conditions and systems prevalent at the Factory.

The success of the audit exercise lies in implementation of the recommendations made in the report. Due care has been exercised while framing the recommendations to make them simple, practicable, feasible and thereby workable. It is the responsibility of the top management to make available the necessary resources to implement the recommendations of this report.

The Company has obtained the certification of **ISO 9001 Standard**

Most of the statutory requirements are found to be complied with.

Fire license has been taken from Tamilnadu Fire and Rescue Services and consent to operate for air/water from Pollution control board.

SCOPE FOR IMPROVEMENT

- Machine safeguarding is the important one which helps to prevent from untoward incident while workmen working nearby or passing through.
- Some of the location like chain sprocket guarding is missing in the conveyor, fan mesh gap is not provided with suitable wire mesh fencing (gap shall be less than 4mm).
- Belt guard is to be provided for lathe Machines, coupling guard for motor pump in pump house, etc.
- Handrail and tow board at both sides in the staircase platform is recommended while crossing over the conveyors in Rolling Mill area.
- Provide adequate handrail at the open-ended platform (tilting area) in both the furnace unit.
- Handrail or suitable fencing is to be provided in the titling table area (three sides) except the area where molten metal tapped in ladle to prevent from accidental entry of workmen which may cause entanglement/trap.
- All the employees including contract workmen, sub contract workmen, staffs are to be provided safety training and record the attendance in the register.

- Considering the nature of hazard, more unsafe conditions and last fatal accident, deployment of qualified safety officer is recommended. Please refer the duties and qualification in "The Tamilnadu Safety officers, Duties, Qualifications and condition of service) Rules, 2005.
- Portable fire extinguishers are to be maintained once in three months and provided with tag system as per the guidelines of BIS 2190.Also the portable fire extinguishers are to be increased in the shop floor area with respect to the nature of hazard.
- 10 % of the fire extinguisher is to be stacked which helps to immediately replace the empty one in the plant premises.
- Eye wash fountain cum shower is to be erected in the safe area at both the furnace unit. In case of hot molten metal fall over the body during the melting operation, eye wash cum shower is to be used to prevent from third degree burn injury.
- Parking slot may be considered for keeping the two wheelers near the security or any safe area.Avoid parking of two wheelers near & inside the shop floor area.

- The SOP for various operations is to be prepared and displayed in bilanguage with pictorial message for better understanding.
- Smoke Detectors are to be installed in both the office and Stores.
- Wearing Ear plug or Ear muff is recommended due to high noise level particularly in the two furnaces area and rolling mill area.
- RCCB(30mA) is to be provided in the panel board particularly socket point for providing power supply to the portable equipment. E.g., lamp, portable welding machines, etc.
- Most of the mobile cranes are not having wind shield, wire rope pulley sheave, Bumper, Tire guard and over hoist limit switch. The same shall be done on utmost priority.

MAIN SUPPLY RECEIVING AREA

The power supply for furnace Area

33/550 x4 supply with two Transformers of

6000kva &5500kva rating

33/440 supply with 2000kva Transformer

The power supply for Rolling Mill Area

33/440 supply with 2 transformers of 2000kva

- Preventive maintenance of AB switches, maintenance of Earthing, Should be done periodically.
- Smoke detectors to be provided.
- Illumination to be made adequate.
- Panel body earthing is to be provided
- Aluminum dust deposited on the transformer need periodical immediate cleaning.
- All the wires are to be laid properly.
- Provide fire extinguisher like foam types in the transformer oil storage area
- Cable entry holes hall be plugged

INTRODUCTION

The Management of the Kanishk Steels Industries Limited, have requested Wasmanpro Environmental Solutions LLP, Chennai to conduct a Safety Audit of their plant located at Gummudipoondi, Chennai. The same was taken up during 09 & 10 Aug 2024. Audit Team representing Wasmanpro are

1. Mr.S. Ponsingh Mohanram
2. Mr.K. Chidambaranathan

In conducting the Safety Audit the guidelines contained in Code of Practice on Occupational Safety and Health Audit. (IS 14489: 1998) were followed. An opening meeting was held on 09 Aug 2024.Mr. Ashok Bohra Director and HODs of the Departments and senior executives attended the meeting. All the officers were explained about the methodology, objectives and goals of the audit to be conducted and also the audit elements. List of documents to be perused and required for the audit was given to them. An Audit schedule was prepared and circulated to the various Department Heads. Closing meeting was held on 10 Aug 2024 chaired by Mr. Ashok Bohra and all other HODs. Observations and findings of the auditors were discussed with them.

ABOUT SAFETY AUDIT

SAFETY AUDIT GOALS

Audits are normally designed to achieve one or more of the following goals

- To provide the auditee with an opportunity to assess its own OS&H system against standards and identify areas for improvement.
- To determine the conformity of the implemented OS&H systems with specified requirements and identify areas for improvement.
- To meet regulatory requirements.

AUDIT OBJECTIVES

Occupational Safety and Health(OS&H)audits are conducted

- To carry out a systematic critical appraisal of all potential hazards involving personnel, plant, services and operational methods.
- To ensure that OS&H system fully satisfy the legal requirements and those of company's written safety policies, objectives and progress.

AUDIT METHODOLOGY

- Appraisal of Audit procedures to the concerned executives.
- Familiarization visit to various sections of the unit.
- Visit to various sections for in depth study of hazard potential.
- Study of the maintenance system of storage vessels, pumps, pipes, equipment's, buildings etc.,
- Interaction with various levels of employees.
- Perusal of documents relating to OH&S.
- Appraisal of major observations to the functional heads who are decision makers to improve HSE system

AREASCOVEREDUNDERAUDIT

1. Safety Policy
2. Safety Education and Training
3. Compliance with Statutory Requirements
4. Accident Reporting, Investigation and Analysis
5. Risk Assessment Including Hazard Identification
6. Plant Safety Inspections

7. First Aid Facilities/Occupational Health Centre
8. Personal Protective Equipment(PPE)
9. Housekeeping
10. Machine and General Area Guarding
11. Material Handling Equipment
12. Electrical and Personal Safe Guarding
13. Ventilation, Illumination and Noise
14. Work Environment Monitoring System
15. Safe Operating Procedures
16. Work Permit System
17. Fire Prevention, Protection and Fighting System
18. Pollution Control, Hazardous Waste Treatment and Disposal
19. Contractors Safety System
20. HandTools
21. Pressure Vessels, and Utilities
22. Maintenance System and Procedures
23. Other Areas (Security & QC Lab)

PROFILE OF THE FACTORY

1. FURNACE UNIT

Steel billets are manufactured by melting of sponge iron/steel scraps in Two Twelve Ton Electric Induction Furnaces and formed into billets in a continuous casting machine.

The steel scraps of required grades are procured from indigenous and imported sources and brought to the unit. The scraps are sorted into different grades to control the composition of final product. Any visible Explosive, Pressurized materials (Shock absorber) and foreign matter like plastic etc., are removed from the scrap.

Required quantities of steel scraps are charged into the furnace by mobile trolley with the help of Magnetic cranes. Depending on the billet's quality, proportions of steel scraps and small quantities of Ferro Silicon are maintained. There are 2 Twelve Ton furnaces With Standby Unit is in the Factory. At any time both the furnaces will be in operation continuously to synchronize the flow of molten metal to the continuous casting unit .

The furnaces are Medium Frequency Induction Furnaces essentially consist of a power source, a coil, refractory lining, and housing for coil in the lining and crucible. The feed is melted in the furnace by induction heating. Any slag formed on the top surface of the Molten Metal is periodically removed out.

The side portion of the furnace is provided with Suction Hood with ducting and connected to an Induced Draft Fan outside the building to remove any small quantities of gases produced During melting process. The gases with dust particles and fresh air are passed through Bag Filter Dust Collector, where major portion of dust particles will be collected in sacks . It is periodically removed and used for landfill. The clean air from the Bag Filter Unit is connected to a Stack of about 30 – meters from ground level. The horizontal duct line and bottom portion of stack are provided with 2 or 3 hand holes to collect any dust particles settled there.

When the melting process is over, the furnace is tilted and the molten metal tapped in ladle. The ladle is already pre-heated to required time of about one hour in a Fire wood pre-heating Unit.

The molten metal in the ladle is taken to the Continuous Casting Machine. The molten metal is poured into the machine to make the Billets. The billets coming out from the machine is cut to required length and the same is send in red hot condition at 1100 degree Celsius for rolling.

The End cut portion of the billets arising while cutting is recycled into the subsequent batches of melting. The induction furnace and continuous casting machine are cooled by a closed loop recirculating cooling water system.

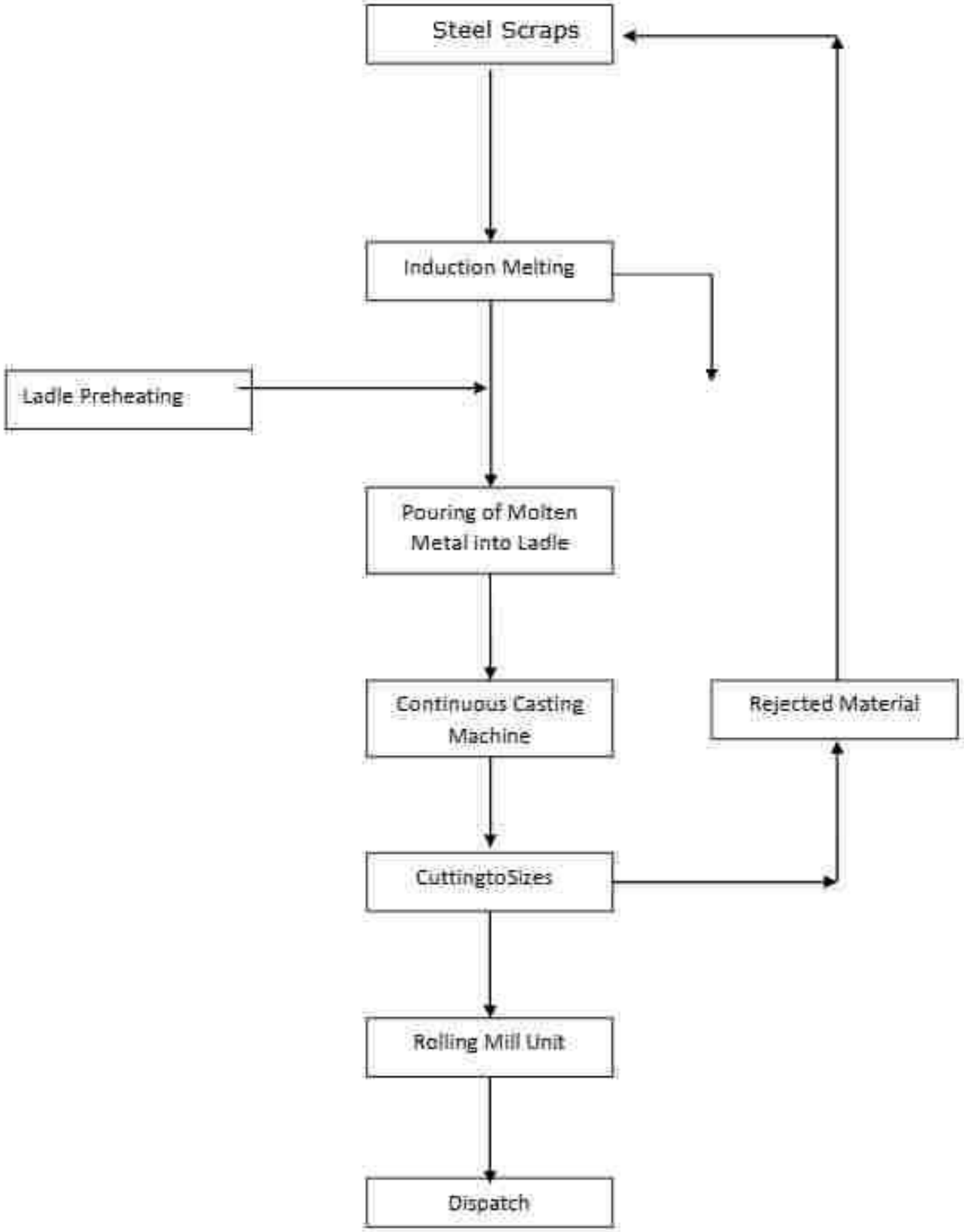
2. ROLLING MILL UNIT

The hot billets coming out from the continuous casting machine are directly fed into the rolling mill by Hot rolling technology. Direct Hot Rolling Technology is one of the advanced production management technologies in steel sector, which represents awareness of green and energy-saving ideology. Contrary to the conventional process of storage and cooling of the billet, the sensible heat from the continuous- cast billets is utilized by charging them directly into the rolling unit. But when billets excess of rolling capacity is produced or when the rolling mill is not in operation billets

are stored and it is re heated in a reheating furnace to the required temperature and send to rolling mill unit. In Direct Hot Rolling, the melt, tapped at approximately 1660-1700°C, is transferred to the continuous casting machine quickly without any significant heat loss and is poured into mould at around 1590°C. The melt is solidified and cooled down to a temperature of 1050 to 1100°C by PLC controlled water cooling and secondary direct spray cooling. The solidifying billet is cut immediately and is passed to the rolling mill, ensuring a minimal heat loss.

The whole operation is conducted at a particular temperature range and within a limited time span. The stages of rolling operation are comprised of heating of feed stock to roll able temperature, rolling the feeding stock in different mill stands, cropping the hot bar during the process of roiling between mill stands as applicable and subsequently finishing in form of hot rolled Sections like channel, Angle of different cross section in straight length to the desired finished goods specifications . The bars at almost ambient temperature are sheared to commercial length, stored and kept ready for dispatch.

ProcessFlow Chart



OBSERVATIONS AND RECOMMENDATIONS

No.	Name of the element	Observations	Recommendations and Guidance	Comments given based on the audit report draft
1	Occupational Safety&Health Policy (OS &H)	OHS Policy is not available in the plant premises	AsperTNFR1950,Rule62-BSUB RULE (6) A copy of the declared Health andSafetyPolicysignedbythe occupier shall be made available to the Inspector having jurisdiction over the factory and to the Chief Inspector. OHS Policy is to be prepared and approved by occupier. OHS policy should be issued to all employees in Hindi, Tamil and English	OHS Policy is to be Framed.
2	OS&H Organisation set Up	The Factory has no OS& H department. Presently HR department is taking care of Safety.	The company has to recruit/deploy one Qualified Safety Officer(Diploma in Industrial Safety approved by DISHor ME (Safety) approved by DISH .He should take care of safety functions in the plant premises.	Safety Officer is to be Appointed
3	Education and Training	Induction training for the employees	Safety Induction training is to be provided for all the employees and Training register is to be maintained	Action is to be taken

		,contract employees and subcontract employees is not Been provided	Training matrix is to be prepared and content of the training is to be developed according to the Manufacturing process and nature of the Hazards prevalent in the company	Action is to be taken
4	Employees participation in OS&H Management	Safety committee is not available	Safety committee is to be formed as per the guidelines of the Factories Act /Rules(Equal number of management and workmen Participation).	Safety Committee is to be formed immediately.
			The meeting shall be conducted once in three months and minutes are recordedandreviewedperiodically	To be done after forming safety commitee
5	Motivational and Promotional Measures	Motivational and promotional measures are not seen during the audit	Officers, Staff, workmen and contractors is to be motivated on the matters of safety and create awareness In the field of Safety.	Necessary actionto be taken
			Safety day celebration is to be Observed during March04 th every year	Necessary action to be taken
			Safety Posters are to be displayed in The plant area to bring about more awareness.	Necessary action to be taken
			.Safety Oath is to be	Complied

			administrated.	
			Conduct various competitions and Distribute prize which creates promotional activity in Safety	Necessary action to be taken
6	Safety Manual and Rules	No safety manual found	Safety manual and Safety Rules are to be prepared in line with Standard Operating procedure of Furnace Operation and rolling mill operation.	Necessary action to be taken
7	Compliance With Statutory Requirements	Management has taken the steps to comply with various statutory provisions.	Test certificate for all lifting tools and tackles is to be renewed immediately. e.g. EOT Cranes, Mobile Crane, Conveyers, Pressure vessels, etc. *: Public liability insurance is to be taken for the site.	Necessary action to be taken
			As per Indian electricity rules, the earth pits to be checked at least once in a year and the individual resistance shall be less than 5 ohms and the collective resistance also to be Measured.	Details to be produced
			Tunnel Conveyor and other conveyor–Competency certificate is to Be obtained (pl refer Part A General Definition) XI TNFR 1950	Necessary action to be taken

8	New Equipment Review / Inspection	Material Inspection system in the stores is found.	Safety aspects about the new equipment inspection are to be carried out by the concerned end user department head along with safety personnel like new Machines,wire rope slings, chain pulley block etc.	At present the maintenance team daily inspects the Store inward materials and given approved for GRIN.— (Goods Receipt cum Inspection Note.)
9	Accident Reporting, Investigation And Analysis	Accident Trend indicates there is one fatal accident in 2023. First Aid cases are not investigated. No evidence on near miss incident	A written procedure and system may be formulated for investigation of accidents. Team members or the officer to investigate the accidents may be fixed. The time limit for approval of investigation report, formulation of remedial measures and Implementation may be specified in the procedure and followed	Details to be produced
			*.All the first aid cases and any near miss incident is to be investigated and remedial measures to be taken fast.	Necessary action to be taken

10	Risk Assessment Including Hazard Identification	No Risk assessment i s found	The plant has to conduct HIRA(Hazard Identification, Risk assessment)and for all the high risk.Standard operating procedure is to be prepared and displayed	Risk and hazards area are identified and study done
			Risk associated with each hazard is to be identified, evaluated prioritized and remedial, preventive actions are to Be taken	Risk and hazards area are identified.
11	PLANT SAFETY INSPECTIONS	Periodic Plant Safety Inspections / Internal Audit will reveal the safe condition of the plant and machinery and expose the unsafe condition and unsafe act. It will be necessary to formulate necessary corrective actions.	Safety Inspections are to be conducted on a daily basis and observations are to be forwarded to The concern Head of Department	Details to be produced
			Appropriate e checklists are to be used.	Details to be produced
			Inspection findings are to be documented and corrective actions are to be followed-up on daily planning meeting.	Noted and followed

12	Health And Safety Improvement Plans / Targets	The desire and decisions of the management will be effective only when the Safety targets are to be prepared.	Safety is also a management's functional area; it requires a plan and a target. Hence Management has to prepare plan and target for the high hazard like Melting furnace Platform area, absence of guarding, damaged DB board etc.	Complied
			Work environment monitoring for the hazardous area (scrap Melting Induction Furnace area) in the plant may be undertaken, through personal samplers.	Necessary action to be taken
			Conduct specialized training programmes in electrical safety, Material handling equipment, Statutory provisions, etc	Necessary action to be taken

13	First Aid Facilities/ Occupational Health Centre	Only basic medicines are available in the First Aid boxes and not all the prescribed medicines as per Rule 63of Tamilnadu Factories Rules An ambulance van is not available in the factory.	*.The medicines are to be checked once in a week by the OHS Centre department employees and refilled as and when required, if needed. A Register is also to be maintained for checking the medicines in the FirstAid (FA) boxes	Now all are available

<table>
<tr>
<td>14</td>
<td>PERSONAL PROTECTIVE EQUIPMENT (PPE)</td>
<td>All the workers Working in the high noise level area are not wearing earplugs or earmuffs</td>
<td>
<table>
<tr><th>Durationperday in Hours</th><th>Sound Level dB(A) Slow response</th></tr>
<tr><td>8</td><td>90</td></tr>
<tr><td>6</td><td>92</td></tr>
<tr><td>4</td><td>95</td></tr>
<tr><td>3</td><td>97</td></tr>
<tr><td>2</td><td>100</td></tr>
<tr><td>1½</td><td>102</td></tr>
<tr><td>1</td><td>105</td></tr>
<tr><td>½</td><td>110</td></tr>
<tr><td>¼orless</td><td>115</td></tr>
</table>
</td>
<td>Ensure that all the workers exposed to high noise level area wear earplugs or earmuffs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Some ofthe Contract workmen who are employed in the Plant Area are found not wearing shoes and Helmet.</td>
<td>PPE plays a vital role in accident mitigation & prevention in industrial operations.</td>
<td>Now using</td>
</tr>
</table>

			The workers working in and around furnace platform are prone to hot molten metal Radiation /metal splash over, special protective equipment like Fire retardant coveralls, Aprons, Safety shoes, Leg guard and Helmet with face shield is to be provided for the workers working in furnace area. All the PPEs used should meet the Bureau of Indian standards.	Now Using
			Fire retardant and heat retardant clothing shall be provided to all the workers working on the platform of induction furnace.	Necessary action to be taken
			Respirator like P2 Class (95 %) protection level mask shall be provided for the workers engaged in the furnace area.	Necessary action to be taken
			Mandatory PPE like Safety Shoe, Safety Spectacle and Safety helmet is must for all the workers entering the plant premises	Now available

			Eye wash fountain cum Shower is to be provided in the furnace and Rolling locations.	Available
			Ensure that all the workers exposed to high noise level area wear earplugs or earmuffs	Supplied PPE
15	HOUSEKEEPING	Housekeeping needs to be improved	Dust bins with colour identification for different types waste like ordinary, hazardous waste etc is to be implemented.	Complied
		Rolled steel Materials are stacked haphazardly in The warehouse	Material stacking is to be done in proper way	Complied
			5 S systems are to be introduced and housekeeping helps better safety in the site.	Necessary action to be taken

16	Material handling equipment	a.Hook latch is not found in most of the EOTcranes.	Hook latch is to be provided for the EOT cranes	Necessary action to be taken
		b. Bridgewheel bearing– high Noise level is noticed.		Necessary action to be taken
		c. In the cabin of EOT crane, no protective wind shield is found.	Maintenance of EOT like bridge wheel, bearing etc. is to be checked and replaced, if necessary.	Necessary action to be taken
		d. All the EOT cranes are tested by competent person	Windshield glass is to be provided for all cabins.	Competent certificate is available

			Testing date and Due date is to be painted in the EOT crane	Necessary action to be taken
			g. Preventive maintenance of mobile crane is to be carried out periodically. Rectify all the observations as given	
		g. All the mobile cranes are not in good condition .	Creating a safe and secure environment for overhead crane operations is a multifaceted endeavor that involves a combination of safety devices, operator training, regulatory compliance, and a strong safety culture. Following safety devices crucial to overhead crane operations, should be provided and maintained for safe operation: **Limit Switches:** Preventing over-travel and collisions by automatically stopping crane movements when predefined limits are reached.	Necessary action to be taken

			Overload Protection Systems: Safeguarding against lifting excessive loads by providing indicators, cut-off mechanisms, and load monitoring.	
			Emergency Stop (E-Stop) Systems: Enabling immediate cessation of crane movements in emergency situations.	
			Anti-Collision Devices: Preventing collisions through laser-based and RFID-based systems that monitor crane proximity and positions.	
			Crane Cameras and Visualization Systems: Enhancing visibility and awareness for crane operators.	
			Warning Lights and Audible Alarms: Providing visual and auditory signals to alert personnel to crane movements and hazards.	
			Load Monitoring Systems: Ensuring accurate load weight calculations and preventing overloading.	

			Electrical and Power Protections: Mitigating electrical hazards and maintaining power integrity.	
			Crane Sway Control: Reducing load swing during lifting, positioning, and transporting operations.	
		g. Preventive maintenance of mobile crane is to be carried out periodically.	As large no of overhead cranes are in operation a Safety inspection Checklist in the format below should be prepared and Inspections should be carried out periodically.	Y e s N o N / A Any Specific observations or Comments
			01.Is the rated load of the crane plainly marked on each side?	
			02.If the crane has more than one hoisting unit, does each hoist have its rated load marked on it or its load block?	
			03. Is this marking clearly legible from the ground or floor?	
			04.Is there a minimum clearance of Three (3) inches over head and two (2) inches laterally provided and maintained between crane and obstructions?	

			05. Are only designated and competent personnel permitted to operate the crane?	
			06. Are stops provided at the limits of travel of the trolley?	
			07. Are bumpers capable of stopping the crane provided where required?	
			08.Do the sheaves and ropes of hoisting equipment meet the requirements	
			09.Are periodic inspections performed on cranes, hooks, ropes, slings, chains, & hoists in accordance with rules	
			10. Are all new cranes and extensively repaired or altered lifting devices load tested at 120 % prior to use ? Is evidence of the test readily available in the form of the MFG'S written certification or maintenance records?	
			11. Are crane hooks inspected during annual inspection for cracks utilizing magnetic particles or other suitable crack detection /inspection methods?	
			12. Are crane hooks removed from service when the throat opening exceeds more than 15 % of normal, or the hook shows more than a 10 degree twist from the plane of the unbent hook or shows signs of cracks?	

			13. Do hooks have safety closure latches properly positioned and functional?	
			14. Are hoists, chains, slings and hooks marked to indicate the item identification number, load rating and next periodic inspection date?	
		e. Manual trolley is not available for carrying the cylinders	Manual trolley and cylinder trolley is to be fabricated or purchased for moving the cylinder safely.	complied
		f. Chain sling supported with manmade round ring.	f. Manual ring connected with chain isto be checked with non-destructive testing.	Necessary action to be taken
17	Ventilation, illumination and noise	Cool drinking water is to be provided in the plant premises		Provided

		b. Check the illumination in the plant areaand improve the lightinglumen(As per factories act, not less than 65 luxandfollowth e BIS 3646 Part I,II,III	Illumination study is recommended to confirm the adequacy of illumination at all working places during day as well as at night.	Necessary action to be taken
18	WORK ENVIRONMENT MONITORING SYSTEM	Lux level sound level, Indoor air quality sample may be done in Periodic manner	The pollutants likely from the process are to be identified. Industrial hygiene survey has to be done	Necessary action taken
19	OCCUPATIONAL HEALTH	Medical examination has been carried out forEye Examination,Pre employment examination	Audiometry test is recommended for those working in Rolling mill unit dueto high noise level Eye examination has to be done for all the EOT and mobile crane operators .	Necessary action to be taken Done

20	SAFE OPERATING PROCEDURES	It is seen that safe operating procedures are available for only few operations. No SOP is displayed in the Plant area.	Standard operating procedure is to be prepared for all the activities and services in the plant operation and Maintenances. The SOPs are to be displayed in all the critical areas.	Necessary action to be taken
			Fire extinguisher operating procedure is to be displayed in the plant areas	Necessary action to be taken
21	WORKPERMIT SYSTEM	There is no work permit system in the plant.	1.Establish and communicate procedure for Heightwork permit system and line clearance system	Necessary action to be taken
			2.Follow Lockout and Tag out System for the electrical isolation	
			3.Before issuing height work, contract Workmen shall be imparted height work safety precautions.	
			4.Line management is responsible to take care of contract workmen engaged in the height work	

22	FIRE PREVENTION, PROTECTION ANDFIGHTING SYSTEM	Portable fire extinguishers are kept in the plant but not sufficient and adequate.	For every 15 meters, there should be one suitable fire extinguisher deployed in the location.	Necessary action to be taken
		Portable fire extinguishers are not maintained and serviced as perBIS 190 Standard	Portable fire extinguisher shall be maintained and serviced as per IS 2190 Standard	Now as per standard
23	Contractor Safety Systems	Most of the contract workmen are found without Safety shoe.		Now available
		No Safety training Is imparted for the workmen		Contract workers should be included While giving safety training to regular workers.
			They should be trained on safe work practices, safety rules and regulations, fire safety, PPEs ,first aid, emergency planning, Pollution control measures, etc.	Necessary action to be taken

24	PRESSURE VESSELS AND UTILITIES	Pressure vessels are not marked properly. check all the PV and Ensure the details below	Pressure vessels like Air receiver to be marked legibly. Safety Pressure relief valve is to be checked at least once in year	Complied

CONCLUSION

As explained by Heinrich, accidents prevention is both science and art. It represents control of performance of man, machine and physical environment. The word 'control' includes prevention as well as correction of unsafe conditions and circumstances.

The accident prevention task requires both, the immediate approach and long-term approach of instructions, training and education. This task must be performed before the accident and injury occur. Subsequent efforts after unpreventable accidents are also necessary.

Management has to take action to comply all Audit suggestion which will lead towards the Safety excellence.

AUDIT OBSERVATIONS WITH PHOTOS AND COMPLIANCE REMARKS

SNO	OBSERVATIONS	PHOTO	RISK LEVEL	RECOMMENDATIONS	APPLICABLE STANDARD	REMARKS
1	Gas Cylinders are kept in horizontal position		High	Cylinders are to be kept in upright position. The same shall be kept in safer location	Factories Act/Gas cylinder rules	COMPLIED
2	No flash back arrestor and non return valve is provided for the gas cutting equipments		Medium	Flash back arrestor and non return valve is strictly to be provided in the gas cutting set cylinders and trolley is recommended for safe movement	Factories Act/Gas cylinder rules	
3	Chain sprocket-No guarding		High	Guarding for rotating parts of chain sprocket is to be provided	Fact & Rules.	Necessary Action to be Taken

4	Six Feet Rolling Cooling Water pit is in open condition		medium	Provide Suitable handrail with toe board around the water storage pit.	Fact & Rules.	Necessary Action to be Taken
5	Safety hook latch is missing in the hoist hook		medium	To be provided	Fact & Rules.	Necessary Action to be Taken
6	V belt drive -No guarding		high	Mesh Guarding for v belt drive is to be provided	Fact & Rules.	Necessary Action to be Taken
7	Water stagnant is noticed in the scrap handling starting area		medium	The floor level should be increased and pawed with hard surface for easy movement	Factories Act/Means of Access	Necessary Action to be Taken

8	Diesel Drums and LPG cylinders are stores in open ground		high	Diesel drums should be stored in separate place with fire safety arrangement LPG cylinders are to be stored in a ventilated closed area	Fact & Rules.	Necessary Action to be Taken
9	V belt drive -No guarding		high	Guarding for rotating parts of chain sprocket is to be provided	Fact & Rules.	Necessary Action to be Taken
10	Electrical DB boards are in open condition		high	DB board shall be provided with canopy and properly closed	CEA	Necessary Action to be Taken
11	Unwanted cables are noticed near the Work area		medium	It should be removed and kept in the stores	CEA/Tamilnadu Electricity Rules	Necessary Action to be Taken

12	The hot billet Crossover conveyor is unsafe and is very close to conveyor in the rolling mill area		high	Cross over conveyor should be with handrail and toe board for safety High	SchXI Conveyor s-TNFR	Necessary Action to be Taken
13	Metal angle is used as electrical main bus bar connecting the eot crane		High	Shredded electrical conductor to be used	CEA/ Fact &Rules	Necessary Action to be Taken
14	Electrical DB- enclosure not Provided		High	Enclosure to be provided for the box	CEA	Necessary Action to be Taken
15	No Proper rubber mat is provided in front of the electrical panel. Also name plate of the module is to be legibly painted in the panel unwanted drums and materials stored		High	Good Rubber mat is to be provided/Remove all the paint drums. This may cause fire hazard .	19(5)ofCEA/ IS-I5652:2006	

16	Pile of heavy scrap stored in furnace platform and hand rails not provided to three sides of the platform		Medium	Pile of heavy scrap stored in furnace platform is to be removed .d provide hand rails with toe board to three sides of the platform	Fact & Rules.	Necessary Action to be Taken
17	the Stacking and storing of M.S finished sections to high level as it may fall to the ground .		Medium	The finished materials should not be stored morethan ten feet and side support is to be provided to avoid accidental fall	Fact & Rules.	Necessary Action to be Taken
18	The air receivers used in the factory are not marked with safe working pressure, identification/Pressure vessel Nos, ET and HT Tested dates		Medium	The air receivers used in the factory should be t marked with safe working pressure,identification no of Pressure vessels, ET and HT Tested dates	Fact & Rules.	Necessary Action to be Taken
19	Some of the asbestos sheets in the furnace division roof is broken and hanging precariously		Medium	Broken Asbestos sheets as to be replaced with new ones immediately	Fact & Rules.	Necessary Action to be Taken

20	LPG Cylinder stored in the compressor room		medium	LPG Cylinder kept in the compressor room should be removed and stored in the designated place	Fact & Rules.	Necessary Action to be Taken
21	The workers working near the induction furnace are not provided with heat resistant covers		High	The workers working near the induction furnace should be provided with heat resistant asbestos aprons apart from other PPEs	Fact & Rules.	Necessary Action to be Taken
22	Fencing is not provided to the transformer area Underneath of the transformer oil traces are available which need immediate attention.		High	The transformer area should be fenced with gate and maintenance of the transformer should be done periodically	CEA	Necessary Action to be Taken
23	The diverter of billets coming from concast machine is operated manually in a unsafe manner		Medium	The diverter used for diverting billets coming from concast machine to rolling mill or storage area should be operated by mechanical/electrical system with pendent control for safety of the worker	Fact & Rules.	Necessary Action to be Taken

24	The cable trench in the furnace area is open and not covered		Medium	The open cable trench in the furnace area should be covered with cement slabs.	Fact & Rules.	Necessary Action to be Taken
25	Handrail with toe board is not provided at both sides of the stair steps		Medium	All Handrail should be provided with toe board at both sides of the stair steps	Fact & Rules.	Necessary Action to be Taken
26	The workers working in the rolling mill are not provided with personal protective equipments like helmet,handgloves etc		High	The workers working in the rolling mill should be provided with and wear while working personal protective equipments like helmet, hand gloves etc	Fact & Rules.	Necessary Action to be Taken

ANNEXURES

N M J

Certificate of Stability

(As per Section 7(1) rule 12-B 3 & (4) of the Factories, 1948 & Rules 1950)

1.	Name of the Factory	:	M/s. KANISHK STEEL INDUSTRIES LIMITED.,
2.	Village, town & district in which the Factory is situated	:	Plot No : B - 27, (M), Sipcot Industrial Estate , Gummidipoondi ,Tiruvallur (Dt) - 601 201.
3.	Full Postal Address of the Factory	:	Plot No : B - 27, (M), Sipcot Industrial Estate , Gummidipoondi ,Tiruvallur (Dt) - 601 201.
4.	Name of the Occupier of the factory	:	Mr. ASHOK BOHRA - Whole Time Director.
5.	Nature of manufacturing process to be carried on in the factory	:	Steel Re - Rolling Mill
6.	Number of floors on which workers will be employed	:	Ground + First floors with RCC & 'A' Type North Ventilated Sheet Roof. Work areas – TMT - Rolling Mil / Stock Yard Big & Small Section mil /Work Shop Ground Floor with Sheet Roof. Staff Quarters /Lab - First floor with RCC Roof.

I certify that I have inspected the building on 05.04.2024 in which M/s. KANISHK STEEL INDUSTRIES LIMITED* is housed and examined the various parts including foundations as shown in the complete plans approved by - The Deputy Chief Inspector of Factories, Div - II in his letter No. R.Dis /383 / 1992 Dt. 30.03.1992 with special reference to the machinery, plant, etc., that have been installed.

I am of opinion that the building has been constructed / Extended in accordance with the plans approved by - The Deputy Chief Inspector of Factories, Div - II in his letter No.R.Dis/383/1992 Dt. 30.03.1992 that it is structurally sound and that its stability will not be endangered by its use as a factory for the Manufacture of - Steel Re - Rolling Mill * for which the machinery, plants, etc., Installed are intended.

Date : 05.04.2024

R. DHANABASEKARAN, B.E., Competent Person
App. by the Directorate of Industrial Safety & Health
Govt. of TN For Issuing Building Stability Certificate
Notification No. 101/2237 / 2001 Dt : 04.04.2001 - 2024

The Certificate may be valid for the period from the date of issued, for 3 years and Certificate is subjected to maintaining the building as per the accepted standard. Any Alterations / Additions / Demolitions or Shifting of the equipment to be carried out with the approval of the Factory Department followed by fresh stability certificate.

FIRE SERVICE LICENSE

(Under Section 13 of the Tamil Nadu Fire Service Act 1985 and with Tamil Nadu Fire Service Rules 1990 Appendix III)

L. DIS. No. TN-3520240620103, 7382 / B / 2024 **Date: 28 - 06 - 2024**

LICENSE is here by granted under section 13 of the Tamil Nadu Fire Service Act 1985, for **Manufacturing Of Rolling Mill, LPG Cylinder 30 No's & Furnace Oil 50 KL** in the name of **M/s. KANISHK STEEL INDUSTRIES LIMITED** within the jurisdiction of **Gummidipoondi Sipcot** at **No. B-27(M), Sipcot Industrial Complex, Gummidipoondi Taluk, Thiruvallur District.** With total building area of **6038.69 Sq. M.** with Subject to the condition mentioned below noted there on and such other conditions as may be prescribed. The above premises inspected by **Station Officer, Gummidipoondi – Sipcot** on **26.06.2024**.

CONDITIONS

As per Tamil Nadu Fire Service Act 1985 Section 13 of Chapter II and appendix V of this Act.

1. According to G.O. No.713 Home (Police-17) Department, Dated 17.08.2005 the Permanent employees & Safety employees who is responsible for the safety of working in the company should be trained.
2. This License is valid for **One Year** from the date of issue.
3. Regular License has to be obtained from the Competent Authority.
4. The Following Fire & Life safety Systems / Arrangements provided in the building should be kept in good working condition always.
   a) Portable First Aid Fire Extinguishers – 24 No's
   b) Fire Bucket with Sand – 10 No's
   c) First Aid Box- 01 No
   d) Over Head Tank 10 KL & Reservoir Sump- 60 KL.
5. As Per NBC 2016 The Following Fire & Life Safety System / Arrangements Should Be Provided Within 06 Months
   a) First Aid Hose Reel System & Down Comers With 450 LPM Pump Should Be Provided.
   b) Manually Operated Electronic Fire Alarm Should Be Provided.
6. If there is any deviation from the Government Rule and Act the LICENSE issued will Stand Cancelled.
7. Mock Drill should be conducted [illegible] months along with nearby Fire & Rescue Service Stations.

(Office seal with date 28 JUN 2024)

DISTRICT OFFICER,
FIRE & RESCUE SERVICES,
THIRUVALLUR DISTRICT,
THIRUVALLUR.

To:

M/s. KANISHK STEEL INDUSTRIES LIMITED,
No. B-27(M), Sipcot Industrial Complex,
Gummidipoondi Taluk, Thiruvallur District.

Copy To: Deputy Director, Fire & Rescue Service, North western Region, Vellore-1.

WasmanPro
Environmental Solutions

PERMIT FOR HOT WORK

Date:	Permit Serial Number:
Equipment No / Name:	Permit valid from: Hrs Date:
Block/Location:	Permit Expires at: Hrs Date:

1. Description of the Work:

If welding is to be carried out in a Confined area, Confined Space work permit shall be attached.	**Additional permits details/Number.** (To be furnished by the workplace in charge)

	(A) Checks / Works to be Carried out by the Work Place Department.	**YES**	**NO**	**NA**
	Whether the welding can be avoided by any alternative means			
1	Area should be cleaned thoroughly and should be checked for presence of solvent vapors. If vapors are found it should be recleaned			
2	Area should be made free from odor			
3	Breathing air-feeding line provided into the reactor.			
4	Surroundings of the vessel made free from hazardous chemicals or containers for a radius of 30 ft minimum			
5	Isolated equipment / Vessel, Elec fuse carriers collected from Mr.			

Name & Sign of the Mfg Block / Dept. Supervisor	Name & Signature of the Mfg Block / Department in charge

	(B) Checks / Works to be Carried out by the Maintenance people	**YES**	**NO**	**NA**
1	Positioning of the machine should be at the nearest possible place to ease the supervision during welding			
	No flammable substances should be around the welding set			
	Two cables without any joint should be laid to the welding place from the machine			
2	Welding equipment used should be of good quality			
3	Person has been explained the work and he understood it			
4	Name and sign of the welder / Name and sign of the Maintenance supervisor / Name and sign of the Maintenance Incharge			

	(C) Checks to be Carried out and recommendations are to be made by the Safety people.	**YES**	**NO**	**NA**
5	Whether the cables welding cable and earthing cable both are run from the welding set to the job?			
6	Whether the cables are having any joint in between			
7	Whether any flammable substance is found along the routing of the cable			
8	Whether the area is safe for welding			
9	Fire extinguisher is arranged near the welding area along with fire man			
10	Personal protective equipments recommended (Mark the tick over required item)			

a) Safety Gloves b) Safety goggles c) Helmet/Face shields/Hoods d) Dust Masks
e) Any other specific

Note: Incase of Emergency alarm followed by Siren Blows continuously this permit stands cancel.

Name & Signature of the Safety In-charge with date and time.	Signature of the Plant Incharge

Permit Close-out notes

The work **HAS / HAS NOT** been completed. The area is safe.	**Issuer**: Name and Signature with Date and Time.	**Receiver**: Name and Signature with date and Time.

White-Job executing department copy / Pink: Safety Department copy / Yellow: Work Area/Department copy

Unsafe notes overleaf

ADDITIONAL PERMIT MAY BE REQUIRED	
Date	Permit Number
Equipment No. / Name	Permit valid from Hrs Date
Block/Department	Permit Expires at Hrs Date

1. Description of the Work:

2. Hazards and Dangers (To be reviewed by the person who is raising the permit in his area, tick the segment if applicable)

Fire and Explosion	Flammable Liquids / Gases	Combustible Material	Flames/Hot work	Other source of ignition	Emergency system
Health.	Hazardous Substances.	Biological risks.	Asbestos.	Noise / Temperature/Ventilation	Manual Handling
Mech / Services.	Closed pipe line or equipment.	Special Services/ Steam	Moving machinery/ Control system	Stored energy / Pressure.	Exposure to electricity
Access	Working at Height.	Falling Objects.	Difficult access	Danger to others	Confined space.
Environmental	Waste disposal.	Emission to air.	Discharge to effluent.	Spillage.	GMP

3. Specify additional permits details/Number. (To be furnished by the workplace in charge)	**Additional Permits**	**Yes**	**No**
	Hot Work		
	Vessel entry / confined space.		
	Heights / Fragile roof work.		
	Electrical Work.		
4. Pipe lines or associated equipments. (To be reviewed by the person who is raising the permit in this work place)	Excavation Work.		
	Pipe line drained and purged?		
	Pressure relieved?		
	Free of Hazardous substances?		
5. Further Preparations and Precautions. / Personal protective equipments to be used while working (To be reviewed by the person who is raising the permit in this work place)	Helmet / Face Shield.		
	Gloves.		
	Safety Boots (Gum boots)		
	Overalls / Area Clothing.		
	Air Suits / Air Hoods.		
	Dust Mask.		
	Others.		

6. Isolations: (Identification of the Plant/Service by work place in charge and mechanical / electrical isolation by Maintenance)

Plant / Service line isolated and it ID.	Isolation type (Example; Locking off, disconnection)	Name of the person/s that are going to work over the Plant / Service to isolate.	Sign.	Time.

Note: Incase of Emergency alarm followed by Siren Blows this permit stands cancel

Name & Signature of work place/ Dept. Incharge with date and time.	Name & Signature of Maintenance Incharge with date and time.	**Reviewed the total permit contents** Name & Signature of the safety Incharge with date and time.

Permit Close-out notes

The work **HAS / HAS NOT** been completed. The area is safe.	**Issuer:** Name and Signature with Date and Time (Maintenance departments)	**Receiver:** Name and Signature with date and Time (Initiator of the permit)

White-Job executing department copy / Pink: Safety Department copy / [illegible] Work Area/Department copy

ANNEXURE XII

DETAILS OF SIX MONTHLY COMPLIANCE REPORTS SUBMITTED AND UPLOADED IN WEBSITE

KANISHK STEELS
Quality in Every Inch





Other Reports

- ENVIRONMENTAL CLEARANCE OF M/S KANISHK STEEL INDUSTRIES LIMITED
- SIX MONTHS COMPLIANCE REPORTS WITH ENCLOSURES & ANNEXURES OF PERIOD OCTOBER 2023 to MARCH 2024
- SIX MONTHS COMPLIANCE REPORTS WITH ENCLOSURES & ANNEXURES OF PERIOD April 2024 to Sept 2024
- Submission Letters, Online Upload Acknowledgement & E-mail Submission proof of Six Months Compliance Report for Environmental Clearance Conditions (Period October 2023 to March 2024)
- Submission Letters, Online Upload Acknowledgement & E-mail Submission proof of Six Months Compliance Report for Environmental Clearance Conditions (Period April 2024 to Sept 2024)
- Newspaper Advertisement of Environmental Clearance details in two newspapers, One in English and the other in Tamil
- Environmental Statement for the Financial Year 2020-2021 in Form-V
- Environmental Statement for the Financial Year 2023-2024 in Form-V
- Report of Analysis-

  a) Ambient Air Quality Survey Result (PM10,PM2.5,SO2,NO2)

  b) Stack Monitoring Survey Result (PM10 PM2.5,SO2,NO2)

  c) Online Contanuous Emission Monitoring System & Realime Data Acquisition & Monitoring Report (PM)

  d) VOC Monitoring (Total Volatile Organic Compounds-TVOC)

- Repon of Analysis - Noise Level Survey Result,Ground Water Quality Test Repon & Treated STP Water Test Report

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CONTACT
Old # 4 , New # 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road, Mylapore, Chennai - 600 004.
Phone No : 42919700,
Fax No : 42919719.

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 08/08/2024

To,
The Member Secretary
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY–TAMILNADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road Saidapet,Chennai– 15.
Phone: No.044-24359973
FaxNo: 044-24359975
Email: emantnseiaa@gmail.com
seiaamstn@gmail.com

Sir,

Sub: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: October 2023 to March 2024.

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period October 2023 to March 2024.

KANISHK STEEL INDUSTRIES LTD CHENNAI REGION

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700. Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

We are also submitted the softcopy of the report to your good office Email: cmantnseiaa@gmail.com & seiaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition.

Thanking You,

Your's Faithfully

For M/s. Kanishk Steel Industries Limited

(Ashok Bohra)
Director

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period October 2023 to March 2024

Copy submitted to
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office (IRO),
Address: 1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungambakkam, Chennai – 600006
Email: eccompliance-tn@gov.in

The Member Secretary,
Tamil Nadu Pollution Control Board (TNPCB),
Address:76, Mount Salai, Guindy, Chennai - 600 032
Email: tnpcb-chn@gov.in

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

The District Environmental Engineer (DEE),
Tamil Nadu Pollution Control Board (TNPCB),
Address: 88A, First Cross Road, SIPCOT Industrial Complex,
Gummidipoondi - 601201.
Email: deegmp@tnpcb.gov.in

The Joint Chief Environmental Engineer,
Tamilnadu Pollution Control Board (TNPCB),
Address: First Floor, 950/1, Poonamallee High Road,
Arumbakkam, Chennai-600 106.
Email: jceemchn@tnpcb.gov.in

The Regional Directorate
Central Pollution Control Board (CPCB),
Address: 77-A, Padi, Ambattur Industrial Estate,
Chennai – 600058
Email: vlaxmi.cpcb@nic.in

KANISHK STEEL INDUSTRIES LTD CHENNAI

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

rediffmail Mailbox of opsl

Subject: Fw: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

From: Kanishk Steels<opsl@rediffmail.com> on Fri, 30 Aug 2024 20:31:30

To: <smantnseiaa@gmail.com>,<seiaamstn@gmail.com>

2 attachment(s) -
Six_Month_Complaince_report_with__Enclosures___Annexure_of_Kanishk_Steel_Industries_Ltd..pdf (12.30MB) ,
Letter_for_Six_Month_Complaince_report_of_KSIL__1_.pdf (951.58KB)

From: "Kanishk Steels"<opsl@rediffmail.com>
Sent: Fri, 30 Aug 2024 20:26:39
To: <smantnseiaa@gmail.com>,<seiaamstn@gmail.com>
Subject: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Dear Sir,

Sub: Submission of six monthly compliance report for Environmental Clearance conditions - Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: October 2023 to March 2024

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period October 2023 to March 2024.

We are also submitted the softcopy of the report to your good office Email: smantnseiaa@gmail.com & seiaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance conditions.

With regards,
Ashok Bhora
Director
M/s KANISHK STEEL INDUSTRIES LIMITED
B27M&N SIPCOT INDUSTRIAL COMPLEX,
GUMMIDIPOONDI - 601 201
GSTIN NO 33AABCK2367G1ZS

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period October 2023 to March 2024

Copy Submitted To,

1.The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office (IRO),
2.The Member Secretary,Tamil Nadu Pollution Control Board (TNPCB),
3.The District Environmental Engineer (DEE) Tamil Nadu Pollution Control Board (TNPCB),
4.The Joint Chief Environmental Engineer,Tamilnadu Pollution Control Board (TNPCB),

5.The Regional DirectorateCentral Pollution Control Board (CPCB)

Half Yearly Compliance Report
2024
01 Jun(01 Oct - 31 Mar)

Acknowledgement

Proposal Name	Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District.
Name of Entity / Corporate Office	M/s. Kanishk Steel Industries Limited
Village(s)	PALAYA GUMMIDIPUNDI
District	THIRUVALLUR

Proposal No.	SIA/TN/IND/19912/2017	**Category**	Industrial Projects - 1
Plot / Survey / Khasra No.		**Sub-District**	Gummidipoondi
State	TAMIL NADU	**Entity's PAN**	*****2367G
MoEF File No.	SEIAA-TN/F.No.6430/EC/3(a)/78/2020	**Entity name as per PAN**	KANISHK STEEL INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office M/s. Kanishk Steel Industries Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private		0
Revenue Land	0	0
Forest	0	0
Others	3.015	3.015
Total	3.015	3.015

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Re-Rolled Products/Structurals	Tons per Annum (TPA)	N/A	76,000	TPA	Yes
2	MS Billets	Tons per Annum (TPA)	N/A	83,000	TPA	Yes

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	WASTE MANAGEMENT	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
PPs Submission: Being Complied Being Complied		Date: 09/12/2024
2	Statutory compliance	The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
PPs Submission: Complied Our industrial activity is not having any impact on the surrounding agriculture and irrigation system.		Date: 09/12/2024
3	Statutory compliance	There should be no threat to Biodiversity due to the operation of the industry.
PPs Submission: Agreed to Comply Due to the operation of the M/S RSIL industry there is no threat to Bio diversity.		Date: 09/12/2024
4	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent has to provide rain water harvesting tank during normal rains.
PPs Submission: Complied Rain Water Harvesting percolation pits constructed along the periphery of the plant for ground water recharge from rain water.		Date: 09/12/2024
5	Statutory compliance	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly Compliance report in hard and soft copies on 1st June and1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearances issued.
PPs Submission: Complied Agreed to comply Copy of half year Compliance report for the period October 2023 to March 2024 is submitted here with.		Date: 07/12/2024
6	Statutory compliance	Consent for Establishment shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.

	PPs Submission: Complied Complied Consent for Establishment is obtained vide under Water Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu.	Date: 07/12/2024
7	Statutory compliance	Consent to Operate should be obtained from the TNPCB before the start of the operation of the project and copy shall be submitted to the SEIAA, Tamilnadu
	PPs Submission: Complied The Consent to Operate is obtained, under the as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No. T1/TNPCB/F0119GMP/OL/GMP/W/2023 DATED 08/12/2023 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. T1/TNPCB/F0119GMP/OL/ /GMP/A/2023DATED 08/12/2023 Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. Copy of CTO renewal of Air Act and Water Act is attached in Annexure IX Page No.127 and 135	Date: 07/12/2024
8	WASTE MANAGEMENT	The implementation of Environment Management Plan in regard to treatment and disposal of sewage and Effluent, Solid waste Management, Hazardous Waste Management, and CSR activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
	PPs Submission: Complied M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out, as proposed and committed. Regular monitoring carried out during operation phases.	Date: 07/12/2024
9	AIR QUALITY MONITORING AND PRESERVATION	Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational-health standards and ambient air quality standards.
	PPs Submission: Complied Adequate dust extraction system provided to handle and the emission from furnace. AAQ standards are achieved. (TNPCB survey dated 26.06.2024 report Enclosed)	Date: 09/12/2024
10	Statutory compliance	The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
	PPs Submission: Being Complied M/s KSIL industry total land use 4.98 percentage is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. Where the Raw materials and products are stored separately based on their properties in the designated places. Photographs of the product storage area are attached herewith. Enclosed - 8 Page No.52	Date: 09/12/2024
11	Statutory compliance	Nature of chemicals Handled the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
	PPs Submission: Complied No hazardous chemicals handled.	Date: 09/12/2024
12	WASTE MANAGEMENT	The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.

PPs Submission: Complied Hazardous wastes are stored in a separate place		Date: 09/12/2024
13	WASTE MANAGEMENT	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
PPs Submission: Complied Hazardous Waste handed through recycler as per authorization		Date: 09/12/2024
14	WASTE MANAGEMENT	The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules 2016.
PPs Submission: Agreed to Comply We agree to compiled with provisions of Plastic Waste (Management and Handling) Rules 2016.		Date: 09/12/2024
15	WASTE MANAGEMENT	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.
PPs Submission: Agreed to Comply We agree to compiled maintain with provision of Solid Waste Management Rules, 2016.		Date: 09/12/2024
16	WASTE MANAGEMENT	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre As per E-waste (Management and Handling) Rules 2016 as amended
PPs Submission: Agreed to Comply We agree to compiled with provision of waste (Management and Handling) Rules 2016.		Date: 09/12/2024
17	AIR QUALITY MONITORING AND PRESERVATION	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM2.5, SOx, NOx) through TNPC/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
PPs Submission: Being Complied TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox and NOx etc.,		Date: 09/12/2024
18	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
PPs Submission: Complied Through TNPCB lab analysis		Date: 09/12/2024
19	Statutory compliance	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environment safeguards.

PPs Submission: Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, Safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell is presented in Annexure As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu. Safety Training Photos is attached as Annexure IV		Date: 09/12/2024
20	GREENBELT	The Greenbelt area already developed within the project area shall be properly maintained.
PPs Submission: Agreed to Comply Agreed to comply		Date: 09/12/2024
21	Risk Mitigation and Disaster Management	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
PPs Submission: Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities.		Date: 09/12/2024
22	GREENBELT	The green belt of 3 to 10 meter width shall be developed in more than 33 percent of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
PPs Submission: Complied The greenbelt area for 33.17 percent of total land which has area of 1.0 ha developed.		Date: 09/12/2024
23	ENERGY PRESERVATION MEASURES	The energy sources for lighting purposes shall preferably be LED based.
PPs Submission: Complied LED lights are provided for lighting purposes		Date: 09/12/2024
24	AIR QUALITY MONITORING AND PRESERVATION	The industry shall conduct air sampling at Least twice in a week (104 times in a year). As stipulated under EP Act 1986.
PPs Submission: Being Complied Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted.		Date: 09/12/2024
25	Risk Mitigation and Disaster Management	Risk cum disaster management plan should be in placed in the industry premises at all times.
PPs Submission: Complied Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan is attached as Annexure X Page No 144.		Date: 09/12/2024
26	WATER QUALITY MONITORING AND PRESERVATION	Water conservation scheme including rainwater harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rain water harvested as a supplement to fresh water.

PPs Submission: Complied Rain Water Harvesting (RWH) system is implemented.		Date: 09/12/2024
27	WATER QUALITY MONITORING AND PRESERVATION	The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provide considering the Catchment area and maximum intensity of rainfall to collect run off water/rain water for proper disposal to avoid flooding around the premises.
PPs Submission: Being Complied Adequate Storm water drains are provided.		Date: 09/12/2024
28	GREENBELT	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
PPs Submission: Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.		Date: 09/12/2024
29	Statutory compliance	The Environmental Clearance is issued without prejudice to any order that may be passed by the Honable NGT/Honable High Court of Madras.
PPs Submission: Agreed to Comply Agreed		Date: 09/12/2024
30	Statutory compliance	All the assurances given in EIA and EMP shall be adhered strictly.
PPs Submission: Complied Complied		Date: 09/12/2024
31	Risk Mitigation and Disaster Management	Sufficient funds should be provided
PPs Submission: Complied Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.		Date: 09/12/2024
32	Statutory compliance	The Project Proponent shall provided is infection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
PPs Submission: Complied The treated wastewater of 7.9 KLD from the STP is recycled for greenbelt development after disinfection.		Date: 09/12/2024
33	WASTE MANAGEMENT	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
PPs Submission: Being Complied M/s KSIL provided sufficient ventilation (air circulation) in the hazardous waste storage yard where		Date: 09/12/2024

the hazardous waste are being kept.		
34	Statutory compliance	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting
PPs Submission: Being Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu		Date: 09/12/2024
35	Risk Mitigation and Disaster Management	Detail study shall be carried out by engaging accredited agencies/reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
PPs Submission: Complied Onsite emergency management plan are prepared and available site premises to manage risk.		Date: 09/12/2024
36	Statutory compliance	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
PPs Submission: Complied Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.		Date: 09/12/2024
37	Human Health Environment	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed
PPs Submission: Being Complied M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation and Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.		Date: 09/12/2024
38	Statutory compliance	The EMP cost of Rs.45 Lakhs for capital cost and recurring cost of Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
PPs Submission: Agreed to Comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control and treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment ,Enclosure-9 page No.53		Date: 09/12/2024
39	Statutory compliance	The operation of the activity should not impact on the soil, micro flora and Fauna present in and around the project site.
PPs Submission: Being Complied The operation of mill does not have any impact on the soil, micro flora and Fauna present in and around the project site.		Date: 09/12/2024
40	AIR QUALITY	The proponent should continuously monitor the VOC and

	MONITORING AND PRESERVATION	ensure that VOC levels are with in permissible limits.

PPs Submission: Complied Not Applicable	Date: 09/12/2024

41	Risk Mitigation and Disaster Management	The project proponent shall carryout risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.

PPs Submission: Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities.	Date: 09/12/2024

42	WASTE MANAGEMENT	The project proponent shall take up better housekeeping measures including scraps disposal and upkeeping the machineries, pipes etc.,

PPs Submission: Being Complied Housekeeping measures are done regularly and including scraps disposal and up keeping the machineries, pipes etc.,	Date: 09/12/2024

43	Corporate Environmental Responsibility	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.

PPs Submission: Complied The CER activities for the amount of 17.4655 lakhs have been spent. Attached Affidavit as Annexure - III Page No.78	Date: 09/12/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.

PPs Submission: Agreed to Comply Agreed.	Date: 07/12/2024

2	Statutory compliance	Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.

PPs Submission: Being Complied Proper housekeeping is done and all the raw material including scrap, coal etc., are stored at designated places.	Date: 10/12/2024

3	Statutory compliance	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEFCC, Bengaluru by e-mail.

		PPs Submission: Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on (25th January 2022 and Period 2023-2024) to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently Copy of Form V - Annexure XI Page No.157.
		Date: 10/12/2024
4	Statutory compliance	Consent for Establishment shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site
		PPs Submission: Complied CTE was obtained from TNPCB
		Date: 09/12/2024
5	Statutory compliance	All the measures regarding occupational health surveillance of the workers shall be under taken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
		PPs Submission: Complied The industrial planner take steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are take: Conducting awareness programs at regular intervals to the employees Providing safety kits and prevention kits Provision of Clinic at the plant site to handle emergency situations that may arise. M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation and Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.
		Date: 10/12/2024
6	Statutory compliance	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/FMP report
		PPs Submission: Complied Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control and treatment, green belt development, rainwater harvesting, environmental monitoring systems and others.
		Date: 10/12/2024
7	Statutory compliance	The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.
		PPs Submission: Complied We are implemented EMP mention in affidavit.
		Date: 10/12/2024
8	Statutory compliance	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.,
		PPs Submission: Complied M/s. KSIL undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. Enhanced library facility for Pedikuppam Govt. School Provision of educational Kits and accessories to nearby Govt. School. Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby. Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.
		Date: 10/12/2024
9	Statutory compliance	The Project proponent shall inform the public that the project has

		been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh. nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.

PPs Submission: Complied
The details of Environmental Clearance obtained have been published in 2 local Daily News papers. Enclosed -11 Page No.55

Date: 10/12/2024

10	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEFCC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.

PPs Submission: Being Complied
We hereby submitting six month compliance report for the period of October 2023 to March 2024

Date: 10/12/2024

11	Statutory compliance	No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB

PPs Submission: Agreed to Comply
Agreed

Date: 07/12/2024

12	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEFCC Regional Office within six months.

PPs Submission: Complied
Rain water harvesting measures provided inside plant

Date: 10/12/2024

13	Statutory compliance	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.

PPs Submission: Complied
The CSR activities for the amount of 43.225 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma.Po.Si Nagar nearby and Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. Enclosed -10 Page No.55

Date: 10/12/2024

14	Corporate Environmental Responsibility	The Project proponent has to spend the CER Fund of Rs.8.45 Lakhs (2 percent of the project cost for the various activities as per MoEFCC OM dated 1.05.2018.

PPs Submission: Complied

Date:

The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.4655 lakhs have been spent.		10/12/2024
15	Statutory compliance	CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.
PPs Submission: Complied We undertake various socio economic schemes under CSR schemes in the surrounding villages like Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt. primary school at Ma.Po Si Nagar nearby and Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.		Date: 10/12/2024
16	Statutory compliance	It shall been sured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
PPs Submission: Agreed to Comply Agreed		Date: 10/12/2024
17	GREENBELT	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33 percent of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80 percent.
PPs Submission: Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands when ever required.		Date: 10/12/2024
18	Statutory compliance	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall been sured that the Head of the Cell shall directly report to the Head of the Organization.
PPs Submission: Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer.		Date: 10/12/2024
19	Statutory compliance	Any appeal against this environmental clearance shall lie with the Honable National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Complied No appeal was made during the specified period.		Date: 10/12/2024
20	Statutory compliance	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed

		at a convenient location near the main gate of the company in the public domain.

PPs Submission: Complied Six months compliance report for the period of October 2023 to March 2024 is submitted herewith. We are process of developing the website for the company and the copy of EC will be uploaded in our company website as soon as it is developed.	Date: 10/12/2024

21	Statutory compliance	Project authorities shall inform the MoEFCC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

PPs Submission: Complied We have obtained CTE before starting the project and CTO obtain before operating the project.	Date: 10/12/2024

22	Statutory compliance	Full co-operation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.

PPs Submission: Agreed to Comply We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Date: 10/12/2024

23	Statutory compliance	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.

PPs Submission: Agreed to Comply Agreed	Date: 10/12/2024

24	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/ MoEFCC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.

PPs Submission: Complied Air Pollution Control (APC) measures are provided to all the Furnaces to achieve the air emission standards prescribed by the CPCB/ MoEFCC and same also connected to the CARE AIR centre of TNPCB for online monitoring and Stack monitoring Survey are done by TNPCB and Survey report are Attached for reference.	Date: 10/12/2024

25	Statutory compliance	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.

PPs Submission: Complied Complied	Date: 10/12/2024

26	Statutory compliance	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.

PPs Submission: Agreed to Comply Agreed	Date: 10/12/2024

27	Statutory compliance	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any

PPs Submission: Agreed to Comply Agreed	Date: 10/12/2024

28	WASTE MANAGEMENT	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act,1991 and its amendments.

PPs Submission: Agreed to Comply Agreed	Date: 10/12/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114186640
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114186640/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	16-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

Date: 16/12/2024

To,
The Member Secretary
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY–
TAMILNADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road Saidapet,Chennai– 15.
Phone: No.044-24359973
FaxNo: 044-24359975
Email: cmantnseiaa@gmail.com
seiaamstn@gmail.com

Sir,

Sub: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: April 2024 to September 2024.

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item Io. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period April 2024 to September 2024.

KANISHK STEEL INDUSTRIES LTD. CHENNAI-600 004.

Regd. Office & Factory : B-27N, B-27M, B-27S, Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

We are also submitted the softcopy of the report to your good office Email: cmantnseiaa@gmail.com & seiaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition.

Thanking You,

Your's Faithfully

For M/s. Kanishk Steel Industries Limited

For KANISHK STEEL INDUSTRIES LTD.

Director / Authorised Signatory

(Ashok Bohra)
Director

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period April 2024 to September 2024

Copy submitted to
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office (IRO),
Address: 1st Floor, Additional Office Block for GPOA, Shastri Bhawan,
Haddows Road, Nungambakkam, Chennai – 600006
Email: eccompliance-tn@gov.in

The Member Secretary,
Tamil Nadu Pollution Control Board (TNPCB),
Address:76, Mount Salai, Guindy, Chennai - 600 032
Email: tnpcb-chn@gov.in

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ISO 9001

The District Environmental Engineer (DEE),
Tamil Nadu Pollution Control Board (TNPCB),
Address: 88A, First Cross Road, SIPCOT Industrial Complex,
Gummidipoondi - 601201.
Email: deegmp@tnpcb.gov.in

The Joint Chief Environmental Engineer,
Tamilnadu Pollution Control Board (TNPCB),
Address: First Floor, 950/1, Poonamallee High Road,
Arumbakkam, Chennai-600 106.
Email: jceemchn@tnpcb.gov.in

The Regional Directorate
Central Pollution Control Board (CPCB),
Address: 77-A, Padi, Ambattur Industrial Estate,
Chennai – 600058
Email: vlaxmi.cpcb@nic.in

KANISHK STEEL INDUSTRIES LTD. CHENNAI 600 004

rediffmail Mailbox of opsl

Subject: Submission of six monthly compliance report for Environmental Clearance conditions (Period April 2024 to September 2024) -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

From: Kanishk Steels<opsl@rediffmail.com> on Mon, 16 Dec 2024 19:08:47

To: <smantnseiaa@gmail.com>,<seiaamstn@gmail.com>

2 attachment(s) - final_SMCR_period_April_2024_to_Sept_2024.pdf (14.84MB) , letter_of_SMCR_KANISHK_STEEL_INDUSTRIES_LTD_compressed__1_.pdf (513.06KB)

To,
The Member Secretary
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY–TAMILNADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road Saidapet,Chennai– 15.
Phone No.044-24359973
FaxNo: 044-24359975
Email: smantnseiaa@gmail.com
seiaamstn@gmail.com

Sir,
Sub: Submission of six monthly compliance report for Environmental Clearance conditions -Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. for Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Regarding.

Ref. No:Letter No. SEIAA-TN/F.No. 6430/EC/3(a)/78/2020 dated: 10.11.2020.
Period of EC Compliance: April 2024 to September 2024.

As per EIA Notification 2006 and above reference, we are herewith submitting six monthly compliance report in respect of Environmental Clearance conditions under Category B1 & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) for Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District. For the period April 2024 to September 2024.

We are also submitted the softcopy of the report to your good office Email: smantnseiaa@gmail.com & seiaamstn@gmail.com in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition.

With regards,
Ashok Bhora
Director
M/s KANISHK STEEL INDUSTRIES LIMITED
B27M&N SIPCOT INDUSTRIAL COMPLEX,
GUMMIDIPOONDI - 601 201
GSTIN NO.33AABCK2367G1ZS

Enclosure: Six monthly Environmental Clearance (EC) Compliance with its Annexes for the period April 2024 to September 2024

Copy Submitted To,
1.The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office (IRO),
2.The Member Secretary,Tamil Nadu Pollution Control Board (TNPCB),
3.The District Environmental Engineer (DEE),Tamil Nadu Pollution Control Board (TNPCB),
4.The Joint Chief Environmental Engineer,Tamilnadu Pollution Control Board (TNPCB),
5.The Regional DirectorateCentral Pollution Control Board (CPCB),

Half Yearly Compliance Report
2024
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District.
Name of Entity / Corporate Office	M/s. Kanishk Steel Industries Limited
Village(s)	PALAYA GUMMIDIPUNDI
District	THIRUVALLUR

Proposal No.	SIA/TN/IND/19912/2017	**Category**	Industrial Projects - 1
Plot / Survey / Khasra No.		**Sub-District**	Gummidipoondi
State	TAMIL NADU	**Entity's PAN**	*****2367G
MoEF File No.	SEIAA-TN/F.No.6430/EC/3(a)/78/2020	**Entity name as per PAN**	KANISHK STEEL INDUSTRIES LIMITED

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office M/s. Kanishk Steel Industries Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	3.015	3.015
Total	3.015	3.015

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Re-Rolled Products/Structurals	Tons per Annum (TPA)	N/A	76,000	TPA	Yes
2	MS Billets	Tons per Annum (TPA)	N/A	83,000	TPA	Yes

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	It is mandatory for the project proponent to furnish to the SEIAA, Half yearly Compliance report in hard and soft copies on 1st June and1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearances issued.

PPs Submission: Agreed to Comply Copy of half year Compliance report for the period October 2023 to March 2024 is furnished to SEIAA, IRO-MoEFCC, DEE-TNPCB, JCEE-TNPCB, and CPCB. Copy of half year Compliance report for the period April 2024 to September 2024 is submitted here with.	Date: 17/12/2024

2	Statutory compliance	Consent for Establishment shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.

PPs Submission: Complied Consent for Establishment is obtained vide under Water Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/W/2022 Dated: 22/04/2022 and under Air Act vide Proceedings No. T2/TNPCB/F.0119GMP/OL/GMP/A/2022 Dated: 22/04/2022 from TNPCB and a copy is furnished to SEIAA Tamil Nadu.	Date: 17/12/2024

3	Statutory compliance	Consent to Operate should be obtained from the TNPCB before the start of the operation of the project and copy shall be submitted to the SEIAA, Tamilnadu

PPs Submission: Complied The Consent to Operate is obtained, as follows: 1. Air (Prevention and Control of Pollution) Act1981, Proceedings No. T1/TNPCB/F.0119GMP/OL/GMP/W/2023 DATED: 08/12/2023 2. Water (Prevention and Control of Pollution) Act 1974, Proceedings No. T1/TNPCB/F.0119GMP/OL//GMP/A/2023DATED: 08/12/2023 Issued by the TNPCB and a copy is furnished to the SEIAA, Tamil Nadu. Copy of CTO renewal of Air Act and Water Act is attached in Annexure IX Page No.127 and 135	Date: 17/12/2024

4	WASTE MANAGEMENT	The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.

PPs Submission: Being Complied M/s KSIL provided sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste are being kept.	Date: 17/12/2024

5	Statutory compliance	The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and

		the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting
PPs Submission: Being Complied As part of safety audit safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.		Date: 17/12/2024
6	Statutory compliance	The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
PPs Submission: Complied Safety training program was conducted to the employees through (DISH) Directorate of Industrial Safety and Health Government of Tamil Nadu.		Date: 17/12/2024
7	Human Health Environment	If the plant operation involves sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed
PPs Submission: Being Complied M/s Kanishk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation and Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents		Date: 17/12/2024
8	Statutory compliance	The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
PPs Submission: Complied Our industrial activity is not having any impact on the surrounding agriculture and irrigation system		Date: 17/12/2024
9	Statutory compliance	The EMP cost of Rs.45 Lakhs for capital cost and recurring cost of Rs.7 lakhs shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
PPs Submission: Agreed to Comply Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control and treatment, green belt development, rainwater harvesting, environmental monitoring systems and others. Recurring cost toward maintain and operation of Air pollution control measures, STP, greenbelt, rain water harvesting are expected through our company fund. The EMP cost of the investment - Enclosure-9 page No.53		Date: 17/12/2024
10	Statutory compliance	There should be no threat to Biodiversity due to the operation of the industry.
PPs Submission: Agreed to Comply Due to the operation of the M/S KSIL industry there is no threat to Bio diversity.		Date: 17/12/2024
11	WATER QUALITY MONITORING AND PRESERVATION	The Project Proponent has to provide rain water harvesting tank during normal rains.
PPs Submission: Complied Rain Water Harvesting percolation pits constructed along the periphery of the plant for ground water		Date: 17/12/2024

recharge from rain water.			
12	Statutory compliance	The operation of the activity should not impact on the soil, micro flora and Fauna present in and around the project site.	
PPs Submission: Being Complied The operation of mill does not have any impact on the soil, micro flora and Fauna present in and around the project site.			Date: 17/12/2024
13	AIR QUALITY MONITORING AND PRESERVATION	The proponent should continuously monitor the VOC and ensure that VOC levels are with in permissible limits.	
PPs Submission: Complied Not Applicable			Date: 17/12/2024
14	Risk Mitigation and Disaster Management	The project proponent shall carryout risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.	
PPs Submission: Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities:			Date: 17/12/2024
15	WASTE MANAGEMENT	The project proponent shall take up better housekeeping measures including scraps disposal and upkeeping the machineries, pipes etc.,	
PPs Submission: Being Complied Housekeeping measures are done regularly and including scraps disposal and up keeping the machineries, pipes etc.,			Date: 17/12/2024
16	Corporate Environmental Responsibility	The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.	
PPs Submission: Complied The CER activities for the amount of 17.46 lakhs have been spent. Attached Affidavit as Annexure - III Page No.78			Date: 17/12/2024
17	WASTE MANAGEMENT	The implementation of Environment Management Plan in regard to treatment and disposal of sewage and Effluent, Solid waste Management, Hazardous Waste Management, and CSR activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.	
PPs Submission: Complied M/s KSIL is implementing Environment Management Plan in regarding to treatment and disposal of sewage, Solid waste Management, Hazardous Waste Management, and CSR activities carried out as proposed and committed. Regular monitoring carried out during operation phases.			Date: 17/12/2024
18	AIR QUALITY MONITORING AND PRESERVATION	Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational-health standards and ambient air quality standards.	

		PPs Submission: Complied Adequate dust extraction system provided to handle and the emission from furnace. AAQ standards are achieved. (TNPCB survey dated 26.06.2024 report Enclosed) Date: 17/12/2024
19	Statutory compliance	The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
		PPs Submission: Being Complied M/s KSIL industry total land use 4.98 percent is allotted to the product storage area and regularly doing housekeeping practices are carryout into spillage management for handling and maintenance of raw materials and products inside the unit premises. Where the Raw materials and products are stored separately based on their properties in the designated places. Photographs of the product storage area are attached herewith. Enclosed -8 Page No 52 Date: 17/12/2024
20	Statutory compliance	Nature of chemicals Handled the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
		PPs Submission: Complied No hazardous chemicals handled Date: 17/12/2024
21	WASTE MANAGEMENT	The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
		PPs Submission: Being Complied Being Complied Date: 17/12/2024
22	WASTE MANAGEMENT	The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
		PPs Submission: Complied Hazardous wastes are stored in a separate place Date: 17/12/2024
23	WASTE MANAGEMENT	The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
		PPs Submission: Complied Hazardous Waste handed through recycler as per authorization Date: 17/12/2024
24	WASTE MANAGEMENT	The plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management and Handling) Rules 2016.
		PPs Submission: Agreed to Comply We agree to compiled with provisions of Plastic Waste (Management and Handling) Rules 2016 Date: 17/12/2024
25	WASTE MANAGEMENT	The e-waste generated should be collected and disposed to a nearby authorized e-waste centre As per E-waste (Management and Handling) Rules 2016 as amended
		PPs Submission: Agreed to Comply We agree to compiled with provision of waste (Management and Handling) Rules 2016. Date:

			17/12/2024
26	WASTE MANAGEMENT	The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.	
PPs Submission: Agreed to Comply We agree to compiled maintain with provision of Solid Waste Management Rules, 2016.			Date: 17/12/2024
27	AIR QUALITY MONITORING AND PRESERVATION	The industry shall conduct air sampling at least once in six months for the general core parameters (PM10, PM25, SOx, NOx) through TNPC/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.	
PPs Submission: Being Complied TNPCB conducted an Air Quality survey vide report date: 02.07.2024 for the parameters Pm10, Pm2.5, Sox and NOx etc.,			Date: 17/12/2024
28	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.	
PPs Submission: Complied Through TNPCB lab analysis			Date: 17/12/2024
29	Statutory compliance	A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environment safeguards.	
PPs Submission: Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer. The organizational structure of Environment Management Cell is presented in Annexure As a part of safety audit safety training was conducted to the employees through Directorate of Industrial Safety and health and Government of Tamilnadu. Safety Training Photos is attached as Annexure - IV			Date: 17/12/2024
30	GREENBELT	The Greenbelt area already developed within the project area shall be properly maintained.	
PPs Submission: Agreed to Comply Agreed			Date: 17/12/2024
31	GREENBELT	The green belt of 3 to 10 meter width shall be developed in more than 33 percent of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	
PPs Submission: Complied The greenbelt area for 33.17 percent of total land which has area of 1.0 ha developed.			Date: 17/12/2024
32	Risk Mitigation and Disaster Management	The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage	

PPs Submission: Being Complied The preliminary risk assessment has been completed for the proposed expansion of steel plant and associated facilities.		Date: 17/12/2024
33	ENERGY PRESERVATION MEASURES	The energy sources for lighting purposes shall preferably be LED based.
PPs Submission: Complied LED lights are provided for lighting purposes		Date: 17/12/2024
34	AIR QUALITY MONITORING AND PRESERVATION	The industry shall conduct air sampling at Least twice in a week (104 times in a year). As stipulated under EP Act 1986.
PPs Submission: Being Complied Online continuous emission monitoring system provided in furnace stacks and regular AAQ survey through TNPCB is conducted.		Date: 17/12/2024
35	Risk Mitigation and Disaster Management	Risk cum disaster management plan should be in placed in the industry premises at all times.
PPs Submission: Complied Risk Cum disaster management plan is available with the Plant Operation Head who will enforce the management plan in case of any risk. Disaster Management plan with On-site and Off-Site Emergency Preparedness Plan is attached as Annexure X Page No.144.		Date: 17/12/2024
36	WATER QUALITY MONITORING AND PRESERVATION	Water conservation scheme including rainwater harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rain water harvested as a supplement to fresh water.
PPs Submission: Complied Rain water harvesting (RWH) system is implemented.		Date: 17/12/2024
37	WATER QUALITY MONITORING AND PRESERVATION	The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provide considering the Catchment area and maximum intensity of rainfall to collect run off water/rain water for proper disposal to avoid flooding around the premises.
PPs Submission: Being Complied Adequate Storm water drains are provided.		Date: 17/12/2024
38	GREENBELT	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
PPs Submission: Being Complied Green belt area has been grown with evergreen trees helps to reduce the fugitive emissions generated in the industrial premise and help to neutralize their carbon foot print.		Date: 17/12/2024
39	Statutory compliance	The Environmental Clearance is issued without prejudice to any order that may be passed by the Honable NGT/Honable High Court of Madras.

PPs Submission: Agreed to Comply Agreed		Date: 17/12/2024
40	Statutory compliance	All the assurances given in EIA and EMP shall be adhered strictly.
PPs Submission: Complied Complied		Date: 17/12/2024
41	Risk Mitigation and Disaster Management	Detail study shall be carried out by engaging accredited agencies/reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
PPs Submission: Complied Onsite emergency management plan are prepared and available site premises to manage risk.		Date: 17/12/2024
42	Risk Mitigation and Disaster Management	Sufficient funds should be provided
PPs Submission: Complied Risk cum onsite emergency Management Plan is available within the site. Sufficient funds available to manage disaster management.		Date: 17/12/2024
43	Statutory compliance	The Project Proponent shall provided is infection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening
PPs Submission: Complied The treated wastewater of 7.9 KLD from the STP is recycled for greenbelt development after dismfection.		Date: 17/12/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.
PPs Submission: Agreed to Comply Agreed		Date: 17/12/2024
2	Statutory compliance	Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.
PPs Submission: Being Complied Proper housekeeping is done and all the raw material including scrap, coal etc., are stored at designated places.		Date: 17/12/2024
3	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall under take rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEFCC Regional Office within six months.

PPs Submission: Complied Rain water harvesting measures provided inside plant		Date: 17/12/2024
4	Statutory compliance	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
PPs Submission: Complied The CSR activities for the amount of 43.22 lakhs have been spent. We undertake various socio economic schemes under CSR schemes in the surrounding villages like Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt primary school at Ma Po Si Nagar nearby and Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore. Enclosed -10 Page No.55		Date: 17/12/2024
5	Corporate Environmental Responsibility	The Project proponent has to spend the CER Fund of Rs.8.45 Lakhs (2 percent of the project cost for the various activities as per MoEFCC OM dated 1.05.2018.
PPs Submission: Complied The Corporate Environmental Responsibility (CER) activities for the amount of Rs. 17.46 lakhs have been spent.		Date: 17/12/2024
6	Statutory compliance	CSR Schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the Villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.
PPs Submission: Complied We undertake various socio economic schemes under CSR schemes in the surrounding villages like Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like drinking water connection given to Ganganthotti village. Also a new bore, OH tank and pipelines provided to the govt. primary school at Ma Po Si Nagar nearby and Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.		Date: 17/12/2024
7	Statutory compliance	It shall been sured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
PPs Submission: Agreed to Comply Agreed		Date: 17/12/2024
8	GREENBELT	Green Belt consisting of 3 tiers of plantations of native species around the plant boundary comprising of at least 33 percent of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80 percent.
PPs Submission: Complied Greenbelt developed along the plant boundary Good native plants provided and maximum available areas are covered. Additional plants will be grown on a continuous basis on replacement basis on available lands when ever required.		Date: 17/12/2024
9	Statutory compliance	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall been sured that the Head of the Cell shall

		directly report to the Head of the Organization.
PPs Submission: Complied Environment Management Cell headed by a Board of Directors and constitute General Manager, Environmental Engineer, safety officer, Chemists, Administrative staff and officer.		Date: 17/12/2024
10	Statutory compliance	All the measures regarding occupational health surveillance of the workers shall be under taken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
PPs Submission: Complied The industrial planner take steps to minimize the impacts and to ensure appropriate occupational health and safety in the steel melting plant and rolling mill. The following measures are take: Conducting awareness programs at regular intervals to the employees Providing safety kits and prevention kits Provision of Clinic at the plant site to handle emergency situations that may arise. M/s Kamshk steel Industries Limited signed MoU agreement with HNX healthcare Pvt. Ltd. Hospital for the purpose of operation and Maintenance of Health Checkup and OPD/IP facilities for their existing and retired employees and to their dependents.		Date: 17/12/2024
11	Statutory compliance	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/FMP report
PPs Submission: Complied Total Cost of about Rs.176 Lakhs towards EMP and recurring cost of Rs.11.14 lakhs is spent on pollution control and treatment, green belt development, rainwater harvesting, environmental monitoring systems and others		Date: 17/12/2024
12	Statutory compliance	The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.
PPs Submission: Complied We are implemented EMP mention in affidavit.		Date: 17/12/2024
13	Statutory compliance	The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.,
PPs Submission: Complied M/s. KSIL undertake socio-economic development activities in the surrounding villages by take part in various CSR activities like water supply, tree plantation, bus shelters, medical camp, road facilities and development of the villages. Enhanced library facility for Pedikuppam Govt. School Provision of educational Kits and accessories to nearby Govt. School. Safe drinking water for nearby Villages. CSR schemes in the surrounding villages like Ganganthotti, nearby village, Gummidipoondi drinking water facility provided. Also a new bore, OH tank and pipelines provided to the Govt. primary school at Ma Po Si Nagar nearby. Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore.		Date: 17/12/2024
14	Statutory compliance	Consent for Establishment shall be obtained from the TNPCB and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site
PPs Submission: Complied CTE was obtained from TNPCB.		Date: 17/12/2024
15	Statutory compliance	The Project proponent shall inform the public that the project has

		been accorded environmental clearance by the SEIAA, TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of SEIAA, TN at parivesh. nic.in. This shall be advertised with in seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office of the MoEF at Bengaluru.

PPs Submission: Complied The details of Environmental Clearance obtained have been published in 2 local Daily News papers. Enclosed -11 Page No.55	Date: 17/12/2024

16	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEFCC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.

PPs Submission: Being Complied We hereby submitting six month compliance report for the period of April 2024 to September 2024.	Date: 17/12/2024

17	Statutory compliance	The Environmental Statement for each financial year ending 31st March in Form V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEFCC, Bengaluru by e-mail.

PPs Submission: Being Complied M/s. KSIL is submitting Environmental Statement for each financial year ending 31st March in Form V is submitted on Financial Period 2024 to the Tamil Nadu Pollution Control Board, Gummidipoondi as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. Copy of Form V - Annexure XI Page No.157	Date: 17/12/2024

18	Statutory compliance	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

PPs Submission: Complied Six months compliance report for the period of April 2024 to September 2024 is submitted herewith. We are uploaded in the company website that is www.kanishksteels.in	Date: 17/12/2024

19	Statutory compliance	Project authorities shall inform the MoEFCC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

PPs Submission: Complied We have obtained CTE before starting the project and CTO obtain before operating the project.	Date: 17/12/2024

20	Statutory compliance	Full co-operation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.

PPs Submission: Agreed to Comply We will give full co-operation to the Scientists/Officers from the Ministry/ Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.	Date: 17/12/2024

21	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall provide the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/ MoEFCC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.

PPs Submission: Complied Air Pollution Control (APC) measures are provided to all the Furnaces to achieve the air/emission standards prescribed by the CPCB/ MoEFCC and same also connected to the CARE AIR centre of TNPCB for online monitoring and Stack monitoring Survey are done by TNPCB and Survey report are Attached for reference.	Date: 17/12/2024

22	Statutory compliance	The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.

PPs Submission: Agreed to Comply Agreed	Date: 17/12/2024

23	Statutory compliance	The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.

PPs Submission: Complied Complied	Date: 17/12/2024

24	Statutory compliance	Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.

PPs Submission: Agreed to Comply Agreed	Date: 17/12/2024

25	Statutory compliance	In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any

PPs Submission: Agreed to Comply Agreed	Date: 17/12/2024

26	WASTE MANAGEMENT	The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act,1991 and its amendments.

PPs Submission: Agreed to Comply Agreed		Date: 17/12/2024
27	Statutory compliance	Any appeal against this environmental clearance shall lie with the Honable National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
PPs Submission: Complied No appeal was made during the specified period.		Date: 17/12/2024
28	Statutory compliance	No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB
PPs Submission: Agreed to Comply Agreed		Date: 17/12/2024

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	SIA/TN/IND/19912/2017
Compliance ID	114931378
Compliance Number(For Tracking)	EC/M/COMPLIANCE/114931378/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	18-12-2024
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

ANNEXURE XIII

SCREEN SHORT OF UPLOADED ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-2024 IN FORM-V IN WEBSITE

KANISHK STEELS
Quality in Every Inch





Other Reports

- ENVIRONMENTAL CLEARANCE OF M/S KANISHK STEEL INDUSTRIES LIMITED
- SIX MONTHS COMPLIANCE REPORTS WITH ENCLOSURES & ANNEXURES OF PERIOD OCTOBER 2023 to MARCH 2024
- SIX MONTHS COMPLIANCE REPORTS WITH ENCLOSURES & ANNEXURES OF PERIOD April 2024 to Sept 2024
- Submission Letters, Online Upload Acknowledgement & E-mail Submission proof of Six Months Compliance Report for Environmental Clearance Conditions (Period October 2023 to March 2024)
- Submission Letters, Online Upload Acknowledgement & E-mail Submission proof of Six Months Compliance Report for Environmental Clearance Conditions (Period April 2024 to Sept 2024)
- Newspaper Advertisement of Environmental Clearance details in two newspapers, One in English and the other in Tamil
- Environmental Statement for the Financial Year 2020-2021 in Form-V
- Environmental Statement for the Financial Year 2023-2024 in Form-V
- Report of Analysis-

  a) Ambient Air Quality Survey Result (PM10,PM2.5,SO2,NO2)

  b) Stack Monitoring Survey Result (PM10 PM2.5,SO2,NO2)

  c) Online Contanuous Emission Monitoring System & Realime Data Acquisition & Monitoring Report (PM)

  d) VOC Monitoring (Total Volatile Organic Compounds-TVOC)

- Repon of Analysis - Noise Level Survey Result,Ground Water Quality Test Repon & Treated STP Water Test Report

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CONTACT
Old # 4 , New # 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road, Mylapore, Chennai - 600 004.
Phone No : 42919700,
Fax No : 42919719.

FORM – V

ENVIRONMENTAL STATEMENT

YEAR 2023 - 2024

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 4. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To

Date:10.12.2024

The District Environmental Engineer,

Tamil Nadu Pollution Control Board

Gummmidipoondi

Dear Sir,

Sub: Submission of Form V under Rule 14

With reference to the above, we are enclosing the Environmental Statement for the financial year ending 31st March -2024 under Rule-14

Encl: Statement Form V for Kanishk Steel Industries Limited

Kindly acknowledge receipt of the same

Thanking you,

Yours faithfully

for Kanishk Steel Industries Limited

Director

(Ashok Bohra)

16 DEC 2024

Regd. Office & Factory : Plot No.B-27 (M) Sipcot Industrial Complex, Gummidipoondi - 601 201.
Ph : (044) 2792 2187, 2792 2774 email : kanishkgpd@gmail.com

FORM -V (See rule -14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART–A

1. Name and address of the owner/ occupier of the industry/ operation or process	Mr.Vishal Keyal: Chairman & Managing Director Mr.Ashok Bohra: Whole time Director
2.Industry category: Primary (STC Code) Secondary (STC Code)	
3.(a) Production Capacity - Units	A - MS Ingots-36000 Tons/Annum
3.(b) Production Capacity - Units	B-Rerolled Products-54000 Tons/Annum
4.Year of Establishment	1991
5.Date of the last environmental statement submitted	

PART–B

Water and Raw Material Consumption

1. Water Consumption 3577 KL/Yr.

Process	Actual Require -Ment:-	2.0 KLD	Actual Useage as per supply:	240 KL/Yr
Cooling		21.0 KLD		2520 KL/Yr
Domestic		6.8 KLD		817 KL/Yr
			TOTAL:	3577 KL/Yr

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2022-2023	During the current financial year 2023-2024
1	MS Ingots	1.739 Litre/ Ton [Product output-82245 Tons Total Pr Water 143 KL	2.598 Litre/ Ton [Product output-92378 Tons Total Pr Water 240 KL]
2	Rerolled Products		

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

(2) Raw Material Consumption

Sl. No	Name of raw materials	Name of Products	Consumption of raw material per unit .	
			During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	MS Scrap	Ms Ingots	**1.232 Tons**	**1.232 Tons**
2	MS Billets	Rerolled Products	**1.097 Tons**	**1.117 Tons**

"Industries may use codes if disclosing details of raw materials would violate contractual obligation, otherwise all industries have to name the raw materials used.

Sl. N	Pollution	Quantity of pollutants discharged (mass/ day)		Concentration of pollutants in discharges (Iteta /Volume)		Percentage of variatio from prescribed
1	Water	Nil		Nil		Nil
2	Air	**Pollutants concentration (u /g //m3**				Within standard Limits
		PM 10	PM 2.5	SO 2	NO 2	
		76.98	39.25	16.34	18.88	

PART -D

Hazardous Wastes

(as specified under Hazardous Waste(Management,Handling & Transboundary Movement Rules.2008)

Sl. No	Hazardous Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
1	From process	NIL	NIL
2	From pollution control facilities	NIL	NIL

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

PART -E

Solid Wastes

Sl. No	Solid Wastes	Total Quantity (KG)	
		During the previous financial Year 2022-2023.	During the current financial year 2023-2024
(a)	From process (i). Slag (ii). Mill scale	**5329 Tons** **1902 Tons**	**6228 Tons** **2433 Tons**
(b)	From pollution control facilities	**Nil**	**Nil**
(c)	(1). Quantity recycled within the limit-Mill scale	**1217 Tons**	**1826 Tons**
(d)	Mill scale disposed to re-melting	**1246 Tons**	**1855 Tons**
(e)	Slag disposed for crushing and land filling	**862 Tons**	NIL

PART -F

Please specify the characterization(in terms of composition and quantum)of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of waste

Category of Waste	Characteristics	Quantity (M.T)	Disposal Practice
Solid Waste -. Mill scale -. Slag	Captive and Sales Tons Disposal to processors and also sent for land-filling	('23- ;24)- 2454 ('23- ;24)- Nil	
Hazardous Waste	NA	NA	NA

PART –G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

1	Tree Plantation	Invisible benefits to the environment
2	STP water generation	water treated and used for watering plants

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

Total annual expenditure incurred towards environmental protection:

1. Material purchase only: Rs.1,07,84,584/-
2. Erection , Labour charge, Civil Cost: Rs. 18,80,941/-

Total: Rs.1,26,65,525/-

So the visible impact of the pollution abatement measures and environment protection shall be Rs.157.70 per ton of steel apart from invisible benefits due to trees (145.68 L /92377 MT)

PART–H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution:-

1	Continuous planting of trees as and when replacement necessary;
2	Bag filters etc installed from February 2024
3	Shed enclosing to reduce dust while unloading;

PART–I

Any other particulars for improving the quality of environment

1	We are providing safe drinking water from our plant to Ganganthotti village
2	We are regularly sprinkling water in an around the units, to suppress dust.
3	We also reimburse the cost of LPG cylinder refilling cost to the employees to avoid coal burning.
4	Regular monitoring of Air Quality by online system.
5	We have already done the tree plantation job and this is a continuous process in and around company areas and Gummidipoondi SIPCOT Office area

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings,	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT'office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date-Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3,475/-	
4	Tamarai eri deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided:		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided:		Rs. 30,000/-	
	TOTAL		**Rs.17,42,301/**	

7	CSR Activity Expenses done viz Amount sponsored for"Clean Ganga Fund during 2021-'22	**Rs. 6,98,200/-**
8	CSR Activity Expenses done during 2022-'23	**Rs.10,22,000/-**
9	CSR Activity Expenses done during 2023-'24	**Rs.19,02,000/-**

Name of Unit–

M/s Kanishk Steel Industries Ltd.,Gummidipoondi, TiruvallurDt.T.Nadu

For Kanishk Steel Industries Limited

(Ashok Bohra)

Director

FORM - V (See rule - 14)

Environmental Statement for the financial year ending the 31st March -2024

Kanishk Steel Industries Limited, B 27 M,N,S, SIPCOT Industrial Complex, Gummidipoondi 601 201, Tamil Nadu (2023-2024)

1	Saplings,	400 plants planted in Kanishk Steel Industries premises & M/s Triveni Industries Ltd premises, 200 plants planted in & around M/s Kanishk Metal Recycling Pvt Ltd, premises Planting saplings at SIPCOT office area, Gummidipoondi	Rs. 32,000/-	This CSR activity maintained till date- Project executed on 2020-'21
2	Plants & Tree purchase		Rs. 13,000/-	
3			Rs. 3,475/-	
4	Tamarai en deepening and tree plantation expenses:		Rs.15,27,886/	
5	Vivekananda Nagar, Gummidipoondi Elementary school drinking water bore provided		Rs.1,35,940/-	
6	Ganganthotti , nearby village, Gummidipoondi drinking water facility provided.		Rs. 30,000/-	
	TOTAL		Rs.17,42,301/	

7	CSR Activity Expenses done viz Amount sponsored for "Clean Ganga Fund during 2021-'22	Rs. 6,98,200/-
8	CSR Activity Expenses done during 2022-'23	Rs.10,22,000/-
9	CSR Activity Expenses done during 2023-'24	Rs.19,02,000/-

Name of Unit–

M/s Kanishk Steel Industries Ltd ,Gummidipoondi, TiruvallurDt, T.Nadu

For Kanishk Steel Industries Limited

Director

KANISHK STEEL INDUSTRIES LTD

Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

To **Date: 22/04/2024**

The Deputy Director General of Forest (c),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
1st and 2nd Floor Additional Office Block for GPOA,
Shastri Bhavan, Haddows Road
Nungambakkam,Chennai–600006.

Sir,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District - for Environmental Clearance Category BI & Schedule item lo. 3(a) Metallurgical Industries (Ferrous & Non - Ferrous) - Request for Certified Compliance Report - Regarding.

Ref: 1.Environmental Clearance from SEIAA Letter No.SEIAA-TN-F.No.6430/EC/3(a)/78/2020 dated: 10.11.2020.

2. Inspection by Dr. S. Pradeepkumar, Scientist 'B' from MoEFCC, RO, on dated 13.02.2025.

3. Letter from MoEF&CC, IRO, No. F.No. EP/12.1/2024-25/SEIAA/98/TN/630 dated 21.04.2025

With reference to the above, we hereby undertake and agree to comply with the following Environmental Clearance (EC) conditions as mentioned below:

SPECIFIC CONDITIONS:

SI.NO 17 : The Greenbelt area already developed within the project area shall be properly maintained.

SI.NO 19: The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

SI.NO 26 : The environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT / Hon'ble High Court of Madras.

SI.NO 27 : All the assurances given in EIA and EMP shall be adhered strictly

GENERAL CONDITIONS

SI.NO 1: The Environmental Clearance does not absolve the applicant/ proponent of his obligation/ requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.

SI.NO 2 : No further expansion or modifications in the Plant shall be carried out without prior approval of the SEIAA,TNPCB.

SI.NO 14: The proponent shall furnish an undertaking that they will abide by the conditions/recommendations mentioned in the EMP report furnished by them.

SI.NO 21: Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB / SPCB who would be monitoring the compliance of environmental status.

SI.NO 23: The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose Additional environmental conditions or modify the existing ones, if necessary.

SI.NO 24 : The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.

SI.NO 25 : Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment(Protection)Act,1986.

KANISHK STEEL INDUSTRIES LTD
Old No. 4, New No. 7, Thiru-Vi-Ka 3rd Street, Royapettah High Road,
Mylapore, Chennai - 600 004. Ph : (044) 4291 9700 Fax : (044) 4291 9719
CIN : L27109TN1995PLC067863
E-mail : sales@kanishksteels.in

ISO 9001

SLNO 26 : In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s)imposed and to add additional environmental protection measures required, if any.

SLNO 27 : The above stipulations would been forced among others under the Water (Prevention and Control of Pollution) Act,197, the Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability InsuranceAct,1991 and its amendments.

SLNO 28: Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green TribunalAct,2010.

For **M/s. Kanishk Steel Industries Limited,**

KANISHK STEEL INDUSTRIES LTD

Director

(Ashok Bohra)
Director

ANNEXURE - XV

CONSENT TO ESTABLISH AIR ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206240023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/A/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 21 of the Air(Prevention and control of Pollution)Act,1981, as amended in 1987 (Central Act, 14 of 1981)-Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 21 of the Air (Prevention and control of Pollution) Act,1981, as amended in 1987 and the Rules and Orders made there under to

The Director,
M/s . KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F No.Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027** , or till the industry obtains consent to operate under Section 21 of the Air (Prevention and control of Pollution) Act, 1981, as amended in 1987 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Royapettah High Road, Mylapore,

Chennai-600 004.,

Pin: 600004

Copy to:

1. The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to establish for Expansion is valid for establishing the facility with the below mentioned emission/noise sources along with the control measures and/or stack .Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent has to be obtained if necessary.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T (existing)	Bag Filters with stack	32	20664
2	Induction Furnace 12T (proposed)	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3 **Special Additional Conditions:**

i. The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)02151/2019 dated 10.06.2020 issued by TNPCB.

ii. The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

4 **Additional Conditions:**

1.The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2.The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
3.The unit shall operate and maintain the Air Pollution Control measures attached to existing induction furnace & DG sets efficiently and continuously so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
4.The unit shall conduct AAQ/SM/ANL through TNPC Board lab periodically and furnish ROA to the Board.
5.The unit shall provide Bag filter with stack of height 32m as Air pollution control measures to the proposed Induction Furnaces 12 T so as to achieve the AAQ/emission / ANL standards prescribed by the Board.
6.The unit shall adhere the National Ambient Air Quality / Stack / Ambient Noise Level standards prescribed by the Board from time to time.
7.The unit shall provide Online Continuous Emission Monitoring System (OCEMS) in the stacks of induction furnaces for monitoring emission parameters SPM, SOx, NOx, and the same shall be connected with Care Air Centre, TNPCB, Chennai prior to the commissioning of the expansion activity.
8.The unit shall meet the particulate matter standards of 150mg/NM3 for emission from induction furnace.
9.The unit shall continue to develop green belt to an extent of 33% of the total extent of land at rate of 400 trees/hectare.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - XV

CONSENT TO ESTABLISH
WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2206140023475 DATED: 22/04/2022.

PROCEEDINGS NO.T2/TNPCB/F.0119GMP/OL/GMP/W/2022 DATED: 22/04/2022

SUB: TNPC Board-Consent for Establishment FOR EXPANSION- I KANISHK STEEL INDUSTRIES LIMITED , S.F. No. Plot No. B-27 [N.M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI Village, Gummidipoondi Taluk, Tiruvallur District- for the establishment or take steps to establish the industry for Expansion under Section 25 of the Water(Prevention and control of Pollution)Act,1974 , as amended in 1988 (Central Act 6 of 1974) –Issued- Reg.

REF: 1. Application No.40023475 dated: 03/09/2021 for CTE – Expansion
2. DEE IR No : F.0119GMP/OL/AEE/GMP/2022 dated 10/04/2022
3. Minutes of CCC Meeting held on 13/04/2022 (Item No. 289-26 dt: 13/04/2022)

Consent to establish or take steps to establish for Expansion is hereby granted under Section 25 of the Water (Prevention and control of Pollution) Act,1974, as amended in 1988(Central Act 53 of 1988) (hereinafter referred to as 'The Act') and the Rules and Orders made there under to

The Director,
M/s. KANISHK STEEL INDUSTRIES LIMITED

Authorizing occupier to establish or take steps to establish the industry in the site mentioned below:

S.F. No.Plot No. B-27 [N.M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt,
OLD GUMMIDIPOONDI Village,
Gummidipoondi Taluk,
Tiruvallur District.

This Consent to establish for Expansion is valid upto **March 31, 2027**, or till the industry obtains consent to operate under Section 25 of the Water (Prevention and control of Pollution) Act, 1974, as amended in 1988 whichever is earlier subject to special and general conditions enclosed.

RAMASAMY
RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s.KANISHK STEEL INDUSTRIES LIMITED ,
Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004.,

Pin: 600004

Copy to:

1. The Executive Officer, GUMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to establish for Expansion is valid for establishing the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. The unit shall provide Sewage Treatment Plant and /or Effluent Treatment Plant as indicated below.

a	**Sewage Treatment Plant:**		
Treatment status: Septic Tank and SP/DT			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	STP	1	10KL/day.
Treatment status: Individual STP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Collection tank	1	6.0x3.0x3.0
2.	Aeration tank	1	1.5 m x 1.5 m x 3.0
3.	Settling tank	1	1.5 m x 1.5 m x 2.5
4.	FILTER FEED TANK	1	1000 L Sintex
5.	PRESSURE SAND FILTER	1	0.300 dia x 1.1 m ht
6.	Activated Carbon Tank	1	0.250 dia x 0.9 m ht
7.	Sludge drying bed	2	1.0x1.0x1.50
b	**Effluent Treatment Plant:**		
Treatment status: Individual ETP			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.	Solar Evaporation Pan	1	2.5m x 2.0m x 1.5 m
Treatment status: No trade effluent and hence does not arise			
SL. No.	Name of the Treatment Unit	No. of Units	Dimensions in metres
1.			

3. This consent to establish for Expansion is valid for establishing the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent			
1.	Trade Effluent -1	19.0	Recycling to machine cooling
2.	Trade Effluent -2	2.45	Solar Evaporation Pans

4. **Special Additional Conditions:**

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

5. **Additional Conditions:**

1.The unit shall comply with the conditions stipulated in Environmental Clearance issued by SEIAA vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2.The unit shall furnish an undertaking in Rs.100 stamp paper that "it will abide by the outcome of application submitted for NOC before the National Bird Sanctuary Board" within 15 days to TNPCB.
3.The unit shall not commission its expansion activity (production increase) without obtaining Consent to Operate (CTO-Expansion) of the Board.
4.The unit shall operate and maintain the existing Sewage Treatment Plant (STP) efficiently and continuously for treatment of sewage so as to bring the quality of treated sewage to satisfy the discharge standards prescribed by the Board at all times. The treated sewage shall be utilized for gardening/green belt development within the premises.
5.The unit shall provide elevated Solar Evaporation Pan (SEP) of adequate surface area for the disposal of trade effluent arising from the wet scrubber bleed off by evaporation as proposed.
6.The unit shall provide EMFMs in the fresh water consumption, inlet & outlet of STP and line of trade effluent (Scrubber bleed off) to SEP.
7.The solid wastes such as MS Scale from concast machine, Mill scale & furnace slag shall be collected properly and sent for beneficial use without any accumulation within the premises. Records of transport & disposal in this regard shall be maintained
8.The unit shall collect the end cut billets properly and reuse the same again the process.
9.The unit shall utilize the STP sludge as manure for green development inside the premises.
10.The unit shall submit the Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.
11.The unit shall not use 'single use and throwaway plastic items' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. This consent to establish cannot be construed as consent to operate and the unit shall not commence the operation without obtaining the Consent to operate.
2. The applicant shall make a request for grant of consent to operate at least thirty days, before the commissioning of trial production.
3. Any Change in the details furnished in the conditions has to be brought to the notice of the Board and got approved by the Board, before obtaining consent to operate under the said Act.
4. The unit has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances (wherever applicable).
5. Consent to operate will not be issued unless the unit complies with the conditions of consent to establish.
6. The unit shall provide adequate water sprinklers for the control of dust emission during the loading and unloading of construction material so as to minimize the dust emission.
7. The unit shall provide water sprinklers along the temporary roads inside the premises to avoid fugitive dust emission during the vehicle movements.
8. The unit shall develop green belt of adequate width around the premises.
9. In case there is any change in the management, the unit shall inform the change with relevant documents immediately.

RAMASAMY RAJAMANICKAM

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - XV

CTO - AIR ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307255530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL//GMP/A/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N.M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for operation of the plant and discharge of emissions. under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg.

REF: 1. CTE Expn. Proc. No T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director

M/s KANISHK STEEL INDUSTRIES LIMITED

S.F.No. Plot No. B-27 [N.M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt

OLD GUMMIDIPOONDI Village

Gummidipoondi Taluk

Tiruvallur District

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:56:14 +05'30'

For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To

The Director,

M/s.KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru.Vi.Ka 3rd Street,

Royapettah High Road, Mylapore,

Chennai-600 004

Fax: 600104

Copy to:

1. The Executive Officer, GUMMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District

2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI

3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.

4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I	**Point source emission with stack :**			
Stack No.	**Point Emission Source**	**Air pollution Control measures**	**Stack height from Ground Level in m**	**Gaseous Discharge in Nm3/hr**
1	Induction Furnace 7T	Bag Filters with stack	32	20664
2	Induction Furnace 12T	Bag Filters with stack	32	20160
3	DG Set 250 KVA	Acoustic enclosures with stack	6	
4	DG Set 500 KVA	Acoustic enclosures with stack	9	
5	Coal fired reheating furnace	Wet scrubber with stack	30	36787
II	**Fugitive/Noise emission :**			
Sl. No.	**Fugitive or Noise Emission sources**	**Type of emission**	**Control measures**	
1.	250KVA DG SET	Fugitive	Acoustic Enclosures	
2.	500KVA DG SET	Fugitive	Acoustic Enclosures	

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

Sl. No.	Parameter	Unit	Tolerance limits	(1) (2) (3) (4) (5) (6)

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below:

Sl. No.	Pollutant	Time Weighted Average	Unit	Tolerance Limits	
				Industrial, Residential, Rural and other area	Ecologically Sensitive Area (notified by Central Govt.)
1.	Sulphur Dioxide (SO2)	Annual 24 hours	microgram/m3 microgram/m3	50 80	20 80
2.	Nitrogen Dioxide (NO2)	Annual 24 hours	microgram/m3 microgram/m3	40 80	30 80
3.	Particulate Matter (Size Less than 10 micro M) or PM10	Annual 24 hours	microgram/m3 microgram/m3	60 100	60 100
4.	Particulate Matter (Size Less than 2.5 micro M) or PM2.5	Annual 24 hours	microgram/m3 microgram/m3	40 60	40 60
5.	Ozone (O3)	Annual 24 hours	8 Hours 1 Hour	100 180	100 180
Sl. No.	**Pollutant**	**Time Weighted Average**	**Unit**	**Tolerance Limits**	**Industrial, Residential, Rural and other area** **Ecologically Sensitive Area (notified by Central Govt.)**
6.	Lead (Pb)	Annual 24 hours	microgram/m3 microgram/m3	0.5 1.0	0.5 1.0
7.	Carbon Monoxide (CO)	8 Hours 1 Hour	miligram/m3 miligram/m3	02 04	02 04
8.	Ammonia (NH3)	Annual 24 hours	microgram/m3 microgram/m3	100 400	100 400
9.	Benzene (C6H6)	Annual	microgram/m3	5	5
10.	Benzo(O) Pyrene (BaP) –particulate phase only	Annual	nanogram/m3	01	01
11.	Arsenic (As)	Annual	nanogram/m3	06	06
12.	Nickel (Ni)	Annual	nanogram/m3	20	20

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

Limits in L.eq.-dB(A)	Day Time	Night Time
IndustrialArea	**75**	**70**

4. All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.

5. The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.

6. The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.

7. The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.

8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace of 15 T and the existing 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
4. The unit shall operate and maintain the air pollution control measures continuously and efficiently so as to ensure that the emission shall satisfy the AAQ/Emission standards prescribed by the Board.
5. The unit shall continue to develop and maintain adequate green belt in and around the premises.
6. The unit shall ensure that stacks are connected to CARE Centre, Guindy at all the times.
7. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of ecofriendly alternative such as banana leaf, arecanut palm plate, stainless steel glass, porcelain plates/cups, cloth bag, jute bag etc.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-1 alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

S RAGUPATHI Digitally signed by S RAGUPATHI
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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

ANNEXURE - XV

CTO - WATER ACT

Category of the Industry :

ORANGE

CONSENT ORDER NO. 2307155530846 DATED: 08/12/2023.

PROCEEDINGS NO.T1/TNPCB/F.0119GMP/OL/GMP/W/2023 DATED: 08/12/2023

SUB: Tamil Nadu Pollution Control Board –CONSENT TO OPERATE FOR EXPANSION-I -M/s. KANISHK STEEL INDUSTRIES LIMITED , S.F.No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt, OLD GUMMIDIPOONDI village Gummidipoondi Taluk and Tiruvallur District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act. 6 of 1974) – Issued- Reg.

REF: 1. CTE Expn. Proc. No.T2/TNPCB/F.0119GMP/OL/GMP/W&A/2022 dated 22/04/2022
2. Unit's application No. 55530846 for CTO Expn. dated 30.10.2023
3. IR.No : F.0119GMP/OL/DEE/GMP/2023 dated 09/11/2023
4. Minutes of 317th CCC meeting held on 30.11.2023 vide agenda item no. 317-17

CONSENT TO OPERATE FOR EXPANSION is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act. 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Director
M/s. KANISHK STEEL INDUSTRIES LIMITED
S.F. No. Plot No. B-27 [N,M&S], SIPCOT Industrial Complex, Gummidipoondi in S.Nos. 275A/2B, 1B of Peddikuppam village and S.Nos. 618/[1A, 1Apt, 1A2B pt, 1B2A pt, 1A3 pt], 621A/[1, 2, 3, 4Apt, 4Bpt, 4B1pt, 4B2pt] and 625pt
OLD GUMMIDIPOONDI Village
Gummidipoondi Taluk
Tiruvallur District

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2033**

Digitally signed by S RAGUPATHI
Date: 2023.12.08 15:54:26 +05'30'
For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

To
The Director,
M/s KANISHK STEEL INDUSTRIES LIMITED ,

Old No.4, New No. 7, Thiru-Vi-Ka 3rd Street,
Ravipettah High Road, Mylapore,
Chennai-600 004.
Pin: 600004

Copy to:

1. The Executive Officer, GUMMIDIPOONDI-Town Panchayat, Gummidipoondi Taluk, Tiruvallur District.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, GUMMIDIPOONDI.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

SPECIAL CONDITIONS

1. This consent to operate for Expansion is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
	Product Details		
1.	STEEL RE-ROLLED PRODUCTS/STRUCTURAL [using Existing - 7 T Induction Furnace of 3000 KWH panel capacity with melting capacity 30000 T/Annum & Proposed 12 T Induction Furnace of 4500 KWH panel capacity with melting capacity of 66000 T/Annum to produce MS Billets 83000 T/Annum to further produce total saleable re-rolled products/structural]	76000	T/Annum
	By-Product Details		
1.	End cut Billets	380.8	T/M
	Intermediate Product Details		
1.	Returnable Scrap	479.3	TPM
2.	MS Billets	83000	TPA

2. This consent to operate for Expansion is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	7.9	On land for gardening
Effluent Type : Trade Effluent - NILL			
1.	Cooling Tower Bleed Off	19.0	Used as Cooling Water Make up in Rolling Mill

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

Sl. No.	Parameters	Unit	TOLERANCE LIMITS - OUTLETS -Nos				
			Sewage		Trade Effluent		
			1		1		
1.	pH		5.5 to 9		5.5 to 9		
2.	Temperature	oC	-		shall not exceed 5°C above the receiving water temperature		
3.	Particle size of Suspended solids	-	-		shall pass 850 micron IS sieve		
4.	Total Suspended Solids	mg/l	30		100		
5.	Total Dissolved solids (inorganic)	mg/l	-		2100		
6.	Oil & Grease	mg/l	-		10		
7.	Biochemical Oxygen Demand (3 days at 27oC)	mg/l	29		30		
8.	Chemical Oxygen Demand	mg/l	-		250		
9.	Chloride (as Cl)	mg/l	-		1000		
10.	Sulphates (as SO4)	mg/l	-		1000		
11.	Total Residual Chlorine	mg/l	-		1		
12.	Ammonical Nitrogen (as N)	mg/l	-		50		
13.	Total Kjeldahl Nitrogen (as N)	mg/l	-		100		
14.	Free Ammonia (as NH3)	mg/l	-		5		
15.	Arsenic (as As)	mg/l	-		0.2		
16.	Mercury (as Hg)	mg/l	-		0.01		
17.	Lead (as Pb)	mg/l	-		0.1		
18.	Cadmium(as Cd)	mg/l	-		2		
19.	Hexavalent Chromium (as Cr+6)	mg/l	-		0.1		
20.	Total Chromium (as Cr)	mg/l	-		2		
21.	Copper (as Cu)	mg/l	-		3		
22.	Zinc (as Zn)	mg/l	-		1		
23.	Selenium (as Se)	mg/l	-		0.05		
24.	Nickel (as Ni)	mg/l	-		3		
25.	Boron (as B)	mg/l	-		2		
26.	Percent Sodium	%	-		-		
27.	Residual Sodium Carbonate	mg/l	-		-		
28.	Cyanide (as CN)	mg/l	-		0.2		
29.	Fluoride (as F)	mg/l	-		2		
30.	Dissolved Phosphates(as P)	mg/l	-		5		
31.	Sulphide (as S)	mg/l	-		2		
32.	Pesticides	mg/l	-				
33.	Phenolic Compounds (as C6H5OH)	mg/l	-		1		
34.	Radioactive materials: a) Alpha emitters	micro curie/ml	-		10-7		
35.	Radioactive materials: b) Beta emitters	micro curie/ml	-		10-6		

36.	Fecal Coliform	MPN/100ml	-		-		

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
   a. Industrial Cooling, Spraying in mine pits or boiler feed.
   b. Domestic purpose.
   c. Process.

6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.

7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.

8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.

9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.

10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.

12. The occupier shall provide and maintain rain water harvesting facilities.

13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.

14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.
    i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.
    ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.
    iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.
    iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
    v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:

1. The unit shall comply the conditions of Environmental Clearance obtained vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
2. The unit shall dismantle one number of coal fired reheating furnace and the existing old 7T induction melting furnace within a period of two months from commissioning the new furnaces.
3. The unit shall obtain amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020 for retaining one coal fired reheating furnace of 15 T, to be used during emergency situations and furnish the same within a period of six months.
4. The unit shall operate the coal fired reheating furnace of 15 T only after obtaining amendment in the Environmental Clearance issued to the unit vide letter No SEIAA-TN/F.No.6430/EC/3(a)/78/2020 dated 10/11/2020.
5. The unit shall ensure that no additional load is obtained from the TANGEDCO for its melting operations and shall ensure that the production is within the consented quantity.
6. The unit shall operate and maintain the sewage treatment plant effectively and continuously so as to satisfy the standards prescribed by the Board
7. The unit shall utilize the treated sewage for gardening/ green belt development without any stagnation or ponding.
8. The unit shall ensure that the Cooling Tower Bleed Off of 19 KLD is used as Cooling Water Make up in Rolling Mill and ensure that and there is no discharge on land etc., under any circumstance
9. The unit shall ensure that no treated/untreated sewage shall gain access to the drain/water course at any point of time.
10. The unit shall dispose Non-Hazardous solid wastes then and there without accumulation of the same within the premises.
11. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The unit shall furnish the monthly reports on the quantity of Products manufactured with necessary supporting documents.
13. The unit shall comply with the E-Waste Management Rules, 2016. E-Waste as listed in schedule-I, generated by them shall be channelized through Collection Centre or dealer of authorized producer or dismantler or recycler or through the designated tack back service provider of the producer to authorized dismantler or recycler. The unit shall maintain records of E-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.
14. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco-friendly alternative such as banana leaf, areca nut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai

GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
    a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
    b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form–4 before the end of the subsequent 30th June of every year (if applicable).
    c) Yearly Environmental Statement for the period from 1st April to 31st March in Form—V before the end of the subsequent 30th September of every year(if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poromboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.

21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.

22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.

23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.

24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

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For Member Secretary,
Tamil Nadu Pollution Control Board,
Chennai