MAITHAN STEEL & POWER LIMITED

maithan STEEL

NIRMAAN KA MAANDAND

File No: MSPL -U2 /EC-Compliance / Dec'25

Dated: 20.11.2025

To,
The Deputy Director of Forest
Ministry of Environment, Forest & Climate Change
Integrated Regional Office (IRO)
IB – 198, IB Block, Sector -- III
Bidhannagar, Kolkata- 700106
West Bengal

Subject: Six Monthly Compliance Report for the **Period of April '2025 to September'25** of M/s **Maithan Steel & Power Limited (Unit –II)** located at Chittaranjan Road, Dendua More, Vill Nakrajoria, PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Ref: EC File No: J-11011/679/2008-IA. II (I) dated 20th March, 2025.

Respected Sir / Madam,

This has reference to the above subject, we are hereby submitting the six monthly compliance reports for the period from **April '2025 to September'25** of accorded Environment Clearance (EC) vide letter No: J-11011/679/2008-IA. II (I) dated 20th March, 2025 of **Unit-II of Maithan Steel & Power Ltd.** located at Chittaranjan Road, Dendua More, Vill – Nakrajoria, PS – Salanpur, Dist – Paschim Bardhaman, West Bengal **by uploading on** Ministry's Parivesh Portal and same shall be sent in soft copy through mail.

Hope you will find the same in order.

Thanking you

Yours faithfully

For, **M/S Maithan Steel & Power Limited**

MAITHAN STEEL & POWER LTD. KOLKATA

Madhur Agarwalla

(Director)

C.C:

1. The Regional Director, Central Pollution Control Board (Eastern Zonal Office), G97V + H5Q, Kasba New Market, Sector E, East Kolkata Twp, Kolkata, West Bengal – 700107.

2. The Environment Engineer, Asansol Regional Office, West Bengal Pollution Control Board, Kalyanpur Satellite Township Projects, Dr. B.C. Roy Road, P.O-Dakshin Dhadka , Asansol, Dist – Paschim Bardhaman, WB – 713302.

MAITHAN STEEL & POWER LIMITED

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NIRMAAN KA MAANDAND

Six Monthly EC Compliance Report of

M/s Maithan Steel & Power Ltd. (Unit-II)

For the period of Apr'25 – Sep'25

(MoEF & CC letter no. IA-J-11011/679/2008-IA-II (IND-I) dated 20.03.2025

(EC Identification no. EC23A1008WB5435864N)

MAITHAN STEEL & POWER LTD. KOLKATA

Compliance Status of Environment Clearance No. IA-J-11011/679/2008-IA-II (IND-I) dated. 20th March, 2025 of M/s Maithan Steel & Power Ltd.

Vill & P.O - Nakrajoria, P.S – Salanpur, Dist.- Pachim Bardhaman

Sl. No	Compliance Conditions	Compliance Status
1	**Specific Conditions**	
1.1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted & Agreed
1.2	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	**Complied.** We are submitting the six monthly Compliance in Parivesh Portal within the stipulated time. Environmental protection measures like installation of PCD, plantation, implementation of ZLD etc. will be duly complied as per commitments made to the Ministry. All the recommendations will be followed as mentioned in the EIA report during the installation of each proposed unit. i. Installation of air pollution control device to achieve 30 mg/ Nm^3 emission standard. ii. Designing of RWH & garland drain. iii. Provision of PPE kit and implementation of all Safety norms.
1.3	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted. However, the industry has developed a sprawling green belt inside plant premises as carbon sink.
1.4	The nearest habitation to plant is Dendua (0.2 km) and Digari (0.5 km) villages along with other sensitive areas such as schools within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.	**Complied.** The organisation has taken following steps to minimise the impact on the local habitation: 1. Industry has installed adequate & effective pollution control devices like bag filters to safe guard environment. 2. Plantation activity is being carried out systematically including all along the periphery to reduce adverse effect on local habitat due to plant operation. (Please refer **Annexure-1** for Plantation details).

		3. We are monitoring Ambient air quality of the nearby villages like Dendua, Nakrajoria, Salanpur and in addition to inside plant. Monitoring results are well within the permissible limit. Monitoring Reports are enclosed as **Annexure- 2.**
1.5	PP shall undertake stringent measures to minimise the levels of PM10 and PM2.5.	Complied. Beside development of sprawling greenbelt inside plant premises, the industry has taken Industry has taken following pollution abatement measures: 1.Installed effective air pollution control devices to minimise emission from stacks. 2. Raw Materials are coming to the plants through fully covered trucks by tarpaulin reduce the level of PM10, PM2.5 and fugitive emission. 3.Movable water tanker is available round the clock for road dust suppression and reduce vehicular emission. b. Raw Materials are coming to the plants through fully covered trucks by tarpaulin. **Please refer Annexures -8,9,10 & 11.**
1.6	There are water bodies are present within the study area of the project site e. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	Noted
1.7	Total Water requirement of 2000 KLD after proposed expansion shall be sourced from Barakar River. PP shall obtain necessary permission from the Competent Authority.	Complied. Water requirement is being fulfilled by surface water from Damodar Valley Corporation (DVC) after obtaining the permission of the concerned authority for the current operational plant. Permission copy of DVC is enclosed as **Annexure –3.**
1.8	Three tier Green Belt shall be developed in at least 33% of the project area, as committed, of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	**Complied.** At present total land area is 19.5 ha. Hence, industry has to develop total 6.50 Ha (33% of total area) as green belt. At present, industry has developed Green Belt / Plantation area of 6.23 Ha (31.9%) as confirmed by DFO by planting different types of tree species. we have planted **293 nos.** saplings during the period **April, 25 to Sep, 25**. Therefore, total nos. of trees become **14,220 nos**. in the green belt covering approx. 5.70 ha area. The company is continuously strengthen its greenbelt by planting different types of species. Additional 1648 saplings to be planted in the existing green belt to increase the density @2500 saplings/Ha and 293 no. saplings planted out of 675 saplings in the remaining 0.27 ha area.

		industry has developed Green Belt / Plantation area of 6.23 Ha (31.9%) as confirmed by DFO. (Please refer **Annexure- 1** for plantation details)
1.9	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked 33% or 40% greenbelt area, as the case may be, as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MerilLiFE portal at (https://merilife.nic.in).	Noted
1.10	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 3 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	**Being complied.** The public hearing issues will be complied as per the provision mentioned in the said OM of MoEF&CC. The timeline as commited to the Ministry will be adhered to. Please refer **Annexure-4** for details of CER activities carried out during the period April,25 to Sep,25.
1.11	The project proponent shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village in consultation with the State Administration.	Noted. However, industry is engaged in socio-economic development of nearby villages at present and funds are being utilised in phase wise manner
1.12	The PP shall ensure compliance of OM dated 14-01-2025 regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.	Noted for compliance.
1	**Statutory Compliance**	
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	**Complied.** Before starting the construction activity , Consent to Establish (NOC) permission is obtained from the West Bengal Pollution Control Board for the EC accorded project vide NOC no. no. 526-2N-19/2009 (E)-Part-I. (Please refer **Annexure-5**).
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

2	Air Quality Monitoring And Preservation	
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 02 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	**Being complied and will be complied too.** At present the Online Continuous Emission Monitoring System (OCEMS) for all the process stack of the existing units are as per CPCB guidelines and 24X7 online data is transferred to RTDAS server continuously through online portal. (Please refer **Annexure-6A** for OCEMS data). Besides this, quarterly monitoring of all stacks are done by third party monitoring agency having NABL accredited laboratory. (Please refer **Annexure-6B** for stack emission monitoring report). At present Ambient Air Quality is monitored at four locations (Inside location-04 & Outside plant location-04) by third party monitoring agency having NABL accredited laboratory. (Please refer **Annexure-2** for AAQ report). CAAQMS is established.
2.2	The project proponent shall carryout Continuous 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 covering upwind and downwind directions.	Complied.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	**Complied.** Fugitive Emissions are being monitored at 1. SMS -1 (Inside plant, near IF). 2. SMS -2 (Inside plant, near IF). 3. Rolling Mill – 1. 4. Rolling Mill – 2. 5. Slag Crusher Area. By third party having NABL accredited laboratory. Results are found well within the permissible limit. Fugitive Emission Reports are attached as **Annexure- 7**
2.4	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	**Complied.** Sampling facility at all the stacks have been / will be provided as per the CPCB guidelines for manual monitoring.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	**Complied.** Existing stacks of SMS plants are equipped with bag filters, suction hoods and ID Fans. All bag houses are designed to meet the permissible limit. (Please refer photographs as **Annexure-8).** Raw materials are kept properly under shed. There is no chance of fugitive emission since raw materials particles are heavy and are not in dust form.

		Movable water sprinkling tanker have been used inside the plant premises to mitigate the fugitive emission as well as vehicular emission. (Please refer photographs as **Annexure- 9).** A dedicated team of housekeeping manpower is continuously engaged to control the fugitive emission inside the plant premises. (Please refer photographs as **Annexure-10).**
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	**Complied.** Auto purging system have been installed at bag house for periodical cleaning of bags. Auto purging system inside bag house is controlled through PLC system.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	**Complied.** A dedicated housekeeping team is engaged to look after the cleanliness of plant premises. (Please refer photographs as **Annexure-10).**
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	**Complied**. Raw materials such as sponge iron, scrap comes to plant through fully covered trucks by tarpaulins & containers. (Please refer photographs as **Annexure-11**).
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	Noted.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	**Not Applicable.** Unit uses Sponge Iron, Pig Iron and Iron Scrap as raw materials which are kept under permanent shed. That is why wind shelter fence and chemical spraying are not applicable. We are using covered shed instead of using wind shelter.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	**Being Complied.** Natural ventilation is implemented in the existing project. The best practices will be followed in construction work of the future expansion project as well.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	**Complied.**
2.13	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of	**Complied** All required environmental protection measures such as green belt development all along plant boundary, pollution control equipments such as Bag Filters, covered conveyers and dust suppression systems etc. are provided and operated duly ensuring environmental safeguard measures to minimise the

	cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	impact on the surrounding ecology. Apart from that, sufficient numbers of mobile sprinkler system are deployed inside the project premises and also in the surrounding villages to arrest the fugitive dust emission.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	**Complied.** Bag Filters are also clean regular basis and efficiency of bag system also monitored.
2.15	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	**Complied.** Raw materials are kept properly under shed. There is no chance of fugitive emission since raw materials particles are heavy and are not in dust form. Movable water sprinkling tanker have been used inside the plant premises to mitigate the fugitive emission as well as vehicular emission. (Please refer photographs as **Annexure- 9).**
2.16	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm^3 and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.	**Being Complied.** The Management is very much concerned about keeping the stack emission level within the permissible limit as per CTO norms for the existing operational plant. Online Continuous Emission Monitoring system (OCEMS) is attached with the major stacks connected to the operational plant which are also connected with CPCB server.
2.17	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	**Complied.** Industry has taken measures following pollution abatement measures: 1. Movable water tanker is available round the clock for road dust suppression and reduce vehicular emission. 2. Raw materials are kept under fully covered shed. 3. Raw Materials are coming to the plants through fully covered trucks by tarpaulin.
2.18	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.	**Complied.** CEMS already installed at IF attached stacks and connected with CPCB server. Monitoring report is also attached with Six-monthly Compliance Report. Please refer **Annexure-6A.**
2.19	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.	Noted.
3	**Water Quality Monitoring And Preservation**	

3.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time 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.	**Complied.** Our plant is based on **'Zero Liquid Discharge'.** In existing plant Water is used only for cooling purpose which is reused in process and the treated domestic waste water is reused for developing green belt and dust suppression system with movable water tanker. (Please refer **Annexure-12** for STP water analysis result.)
3.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	**Complied.** We are monitoring the ground water quality of the nearby areas on half yearly basis. by NABL accredited laboratory. Analysis Report is enclosed as **Annexure- 13**.
3.3	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	**Complied.** Raw materials like sponge iron, scrap, pig iron (Solid & Heavy particle) are kept under permanent shed on concrete floor. However, surface run off water is collected in rain water harvesting structure through storm water drain and subsequently utilize for dust suppression by the movable water tank. However, it over flows during heavy rains.
3.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.	**Complied.** Water Meter installed at all designated areas.
3.5	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	**Complied.** Water is only used for cooling purpose. In this process, certain quantity of water gets evaporated and remaining water goes to cooling tower. Cooling tower blow down subsequently taken for filtration and then passes through softener for reuse in process. Hence, the industry is practicing cascade use of water in a systematic way.
3.6	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	**Complied.** Blow down water of cooling towers is recycled through media filter and reused in system. Also, oil skimmer has been installed to separate oil & grease. No wastewater is discharged outside the plant premises. The domestic wastewater is reused after treated in the Sewage Treatment Plant (STP) for developing green belt and dust suppression inside plant.
3.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust	**Complied.**

	suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	
3.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	**Complied.** Industry has implemented Rainwater harvesting system. The rainwater is being collected in the roof top catchment area and stored in reservoir for reuse. (Please refer **Annexure – 14).**
4	**Water Quality Monitoring And Preservation In Case of Rolling Mills**	
4.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	**Complied.** Operational process is dry. Blow down water of cooling towers is recycled through media filter and reused in system. Also, oil skimmer has been installed to separate oil & grease. Sewage treatment plant has been established.
4.2	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF.	**Not Applicable**
5	**Noise Monitoring And Prevention**	
5.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	**Complied.** Work Zone Noise Monitoring is being done on regular basis by third party having NABL accredited laboratories. Work zone noise quality monitoring reports are attached as **Annexure--15**.
5.2	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.** Please refer **Annexure-16.**
6	**Energy Conservation Measures**	
6.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	**Complied.** Roof top solar panel is installed to provide solar power to lighting systems which are installed at the inside & outside plant premises. (Please refer **Annexure – 17**).
6.2	Provide LED lights in their offices and residential areas.	**Complied.** Already implemented.
7	**Energy Conservation Measures In Case of Reheating Furnace**	
7.1	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	**Not applicable.** As there is no DRI Kiln in the existing plant.

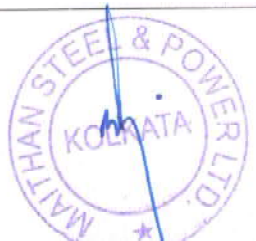
7.2	Practice hot charging of slabs and billets/blooms as far as possible.	Noted. At present 100% hot metal is being passed through CCM to hot rolling mill. However, we have an EC which is issued on 25/03/25 for Installation of Re-heating Furnace in future.
7.3	Ensure installation of regenerative type burners on all reheating furnaces	Noted
8.	**Waste Management**	
8.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.	**Being complied.** Waste oil/used oil is collected in drums and disposed off through TSDF /authorised recyclers. During this period no disposal was done.
8.2	Kitchen waste shall be composted or converted to biogas for further use.	**Complied.** Kitchen waste is composted and is used as manure/ bio-fertilizer for green belt development.
8.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	**Not Applicable.**
8.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.	Being followed
8.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Noted
8.6	Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.	**Complied.** Industry has established slag crusher and it is operational now vide CTO NO. WBPCB/7010905/2025 dtd. 07/08/2025. Please refer **Annexure – 18** Recovered metals from slag is utilized and waste slag is used for land filling , cement plant etc.

9	**Waste Management In Case of Sinter Plant**	
9.1	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.	**Not Applicable**
9.2	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	**Not Applicable**
9.3	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	**Not Applicable**
10.	**Green Belt**	
10.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	**Complied.** Report of the same is attached as **Annexure - 19** for your reference.
10.2	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Noted
10.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	**Being Complied.** Industry has developed polyculture plantation in the plant to maintain bio diversity and soil quality including arresting of soil erosion. Green Belt development is continual process in our plant. Also, concrete roads are made inside plant which reduces fugitive emission during vehicle movement.
11	**Public Hearing And Human Health Issues**	
11.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	**Complied.** On-site emergency plan has been prepared covering HIRA and Disaster Management plan. (Copy attached as **Annexure – 20.**
11.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	**Complied** Please refer **Annexure- 21** for report of Heat stress analysis of workmen working in high temperature work zone.

		We are providing standard personal protection Equipment (PPE) to all workmen as per the norms of Factories Act.
11.3	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.	Existing plant infrastructure and facilities has been provided to Construction Labourers.
11.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	**Complied**
12	**Environment Management**	
12.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	**Being complied.** Industry has undertaken many socio-economic development plan and implementing the same in time bound manner in line with the Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. The cost incurred in CER is being carried out for social development and welfare measures in the surrounding villages. (Please refer **Annexure-4** for details of CER activities carried out).
12.2	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.** The company has a well laid down environment policy duly approved by Board of Directors. (Please refer **Annexure - 22**).
12.3	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.** A Separate Environment Management Cell has been formed to look after all environmental issues.
12.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Noted
13	**Miscellaneous**	

13.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	**Complied.** Advertisement copy is attached as **Annexure - 23**.
13.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	**Complied.** EC copy was submitted to the Heads of Local bodies, Panchayats and/or Municipal bodies in addition to the relevant offices of the Government. Please refer **Annexure- 24**.
13.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	**Being complied.** We have already uploaded the conditions with compliance to the website. Agreed to update on half-yearly basis.(www.maithansteel.com).
13.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	**Being complied.** Environment monitoring is being carried out by third party having NABL accredited laboratory and results are put on the website of the company as well as displayed at the main entrance of the industry Please refer **Annexure-2** for AAQ results.
13.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Noted
13.6	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	**Being complied.** Six-monthly compliance report is being uploaded on the website of the MoEF&CC within stipulated time.
13.7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	**Being Complied.** Industry is submitting environmental statement for each financial year in Form-V. Environmental statement for the financial year 2024-25 submitted to the West Bengal Pollution Control Board. Please refer **Annexure- 25.**
13.8	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted
13.9	The project proponent shall abide by all the commitments and recommendations made in the EIA	**Noted and to be complied in phase wise manner.**

	/ EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
13.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	**Not Applicable.** There is no Schedule-I species within the 10 KM radius from the plant site as per Flora & Fauna list provided by the Forest Department, Govt. of West Bengal.
13.11	The PP shall put all the environment related expenditure; expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Noted. Industry is continuously implementing recommendations in EIA/EMP. Also, implementing action plan to attend PH issues in time bound manner.
13.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	**Agreed**
13.13	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	**Noted**
13.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	**Noted**
13.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	**Agreed**
13.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	**Noted**
13.17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	**Agreed.**



Annexure -I

GREEN BELT DETAILS

Annexure-1

Maithan Steel & Power Limited (Unit-II)

Plantation Details

Period: April' 25 – September' 25

Months	Species	Total No. of Saplings
Apr-25	Sonajhuri, Chatim, Foxtail palm, Legerstromia, Seesham, Sehagun, Mehogani, Kadam, Mango, Guava, Arjun, Radhachura, Banyan , Neem, Kamini, Terminalia, Peepal, Almond, Tecoma, Polandi, Tabebuia, Spathodia, Ficus starlite, Arica Palm, Jamun, Salvia, Cosmos, Bakul, Krishnachura, Phycus panda, Phycus Benjamina, Jack Fruit etc.	202
June-25		75
Sep- 25		16
Total		**293**

Total Plantation as on 31.03.2025: 13,927 nos.

Plantation during April'25 to September,25 – 293 nos.

Total plantation as on 30.09.2025: 14,220 nos.

MAITHAN STEEL & POWER LIMITED

maithan STEEL
NIRMAAN KA MAANDAND

(Unit-II)

Green Belt inside Plant

Annexure -2

AMBIENT AIR QUALITY RESULTS

GREENVISION
(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000737F

Report No.	: GV/AR/25-26/288	Sample Ref. ID	: AS-139-2025(1)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025 to 27.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 27.08.2025
Sampling Location	: East Side of Plant (Near Main Gate)	Analysis Started On	: 28.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 29.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 09:15 am to 09:15 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 32.2
Average Relative Humidity (%) : 88.0
Barometric Pressure (mm of Hg) : 753.0
Smell of Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM10	$\mu g/m^3$	87.96	100.0 (24 Hrs.)
02.	Concentration of PM2.5	$\mu g/m^3$	44.16	60.0 (24 Hrs.)
03.	Concentration of SO_2	$\mu g/m^3$	9.65	80.0 (24 Hrs.)
04.	Concentration of NO_2	$\mu g/m^3$	36.48	80.0 (24 Hrs.)
05.	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06.	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07.	Concentration of NH_3	$\mu g/m^3$	5.25	400.0 (24 Hrs.)
08.	Concentration of CO	mg/m^3	0.232	4.0 (24 Hrs.)
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10.	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11.	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12.	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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(A leading environmental research laboratory)
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TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000738F

Report No	: GV/AR/25-26/289	Sample Ref. ID	: AS-139-2025(2)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025 to 27.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 27.08.2025
Sampling Location	: South Side of Plant (Near Gate No. 2)	Analysis Started On	: 28.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 29.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 09:40 am to 09:40 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 32.2
Average Relative Humidity (%) : 88.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01	Concentration of PM10	$\mu g/m^3$	77.32	100.0 (24 Hrs.)
02	Concentration of PM2.5	$\mu g/m^3$	39.58	60.0 (24 Hrs.)
03	Concentration of SO_2	$\mu g/m^3$	7.9	80.0 (24 Hrs.)
04	Concentration of NO_2	$\mu g/m^3$	35.82	80.0 (24 Hrs.)
05	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07	Concentration of NH_3	$\mu g/m^3$	4.45	400.0 (24 Hrs.)
08	Concentration of CO	mg/m^3	0.192	4.0 (24 Hrs.)
09	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision | U.L.R. No. : TC1528825000000750F

Report No.	: GV/AR/25-26/297	Sample Ref. ID	: AS-139-2025(10)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 27.08.2025 to 28.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 28.08.2025
Sampling Location	: North Side of Plant (Near Boundary Wall)	Analysis Started On	: 29.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 30.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 10:05 am to 10:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM10	$\mu g/m^3$	76.79	100.0 (24 Hrs.)
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	38.74	60.0 (24 Hrs.)
03.	Concentration of SO_2	$\mu g/m^3$	9.65	80.0 (24 Hrs.)
04.	Concentration of NO_2	$\mu g/m^3$	37.14	80.0 (24 Hrs.)
05.	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06.	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07.	Concentration of NH_3	$\mu g/m^3$	5.02	400.0 (24 Hrs.)
08.	Concentration of CO	mg/m^3	0.204	4.0 (24 Hrs.)
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10.	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11.	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12.	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000751F

Work Order No	: GV/AR/25-26/298	Sample Ref. ID	: AS-139-2025(11)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 27.08.2025 to 28.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 28.08.2025
Sampling Location	: West Side of Plant (Near Boundary Wall)	Analysis Started On	: 29.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 30.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 10:40 am to 10:40 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM_{10}	$\mu g/m^3$	79.75	100.0 (24 Hrs.)
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	40.83	60.0 (24 Hrs.)
03.	Concentration of SO_2	$\mu g/m^3$	8.77	80.0 (24 Hrs.)
04.	Concentration of NO_2	$\mu g/m^3$	36.48	80.0 (24 Hrs.)
05.	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06.	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07.	Concentration of NH_3	$\mu g/m^3$	4.78	400.0 (24 Hrs.)
08.	Concentration of CO	mg/m^3	0.183	4.0 (24 Hrs.)
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10.	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11.	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12.	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by **M/s. Greenvision** U.L.R. No. : TC1528825000000749F

Report No	: GV/AR/25-26/296	Sample Ref. ID	: AS-139-2025(9)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 27.08.2025 to 28.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 28.08.2025
Sampling Location	: Salanpur Village	Analysis Started On	: 29.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 30.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 09:10 am to 09:10 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM10	$\mu g/m^3$	74.62	100.0 (24 Hrs.)
02.	Concentration of PM2.5	$\mu g/m^3$	38.33	60.0 (24 Hrs.)
03.	Concentration of SO_2	$\mu g/m^3$	8.77	80.0 (24 Hrs.)
04.	Concentration of NO_2	$\mu g/m^3$	36.48	80.0 (24 Hrs.)
05.	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06.	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07.	Concentration of NH_3	$\mu g/m^3$	4.18	400.0 (24 Hrs.)
08.	Concentration of CO	mg/m^3	0.168	4.0 (24 Hrs.)
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10.	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11.	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12.	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision — U.L.R. No. : TC152882500000076IF

Report No	: GV/AR/25-26/301	Sample Ref. ID	: AS-139-2025(14)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 28.08.2025 to 29.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 29.08.2025
Sampling Location	: Dendua Village	Analysis Started On	: 30.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 01.09.2025
Location of Testing	: At Laboratory	Time of Sampling	: 10:50 am to 10:50 am
Sampling Method	: CPCB. Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM_{10}	$\mu g/m^3$	64.07	100.0 (24 Hrs.)
02.	Concentration of $PM_{2.5}$	$\mu g/m^3$	33.74	60.0 (24 Hrs.)
03.	Concentration of SO_2	$\mu g/m^3$	7.9	80.0 (24 Hrs.)
04.	Concentration of NO_2	$\mu g/m^3$	35.19	80.0 (24 Hrs.)
05.	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06.	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07.	Concentration of NH_3	$\mu g/m^3$	4.06	400.0 (24 Hrs.)
08.	Concentration of CO	mg/m^3	0.167	4.0 (24 Hrs.)
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10.	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11.	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12.	Concentration of Ozone as O_3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision | U.L.R. No. : TC1528825000000762F

Report No.	: GV/AR/25-26/302	Sample Ref. ID	: AS-139-2025(15)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 28.08.2025 to 29.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 29.08.2025
Sampling Location	: Nakrajoria Village	Analysis Started On	: 30.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 01.09.2025
Location of Testing	: At Laboratory	Time of Sampling	: 11:30 am to 11:30 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01	Concentration of PM10	$\mu g/m^3$	85.1	100.0 (24 Hrs.)
02	Concentration of PM2.5	$\mu g/m^3$	43.32	60.0 (24 Hrs.)
03	Concentration of SO_2	$\mu g/m^3$	8.77	80.0 (24 Hrs.)
04	Concentration of NO_2	$\mu g/m^3$	35.82	80.0 (24 Hrs.)
05	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07	Concentration of NH_3	$\mu g/m^3$	4.72	400.0 (24 Hrs.)
08	Concentration of CO	mg/m^3	0.181	4.0 (24 Hrs.)
09	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12	Concentration of Ozone as O_3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. The report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

GREENVISION

(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000760F

Report No.	: GV/AR/25-26/300	Sample Ref. ID	: AS-139-2025(13)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 28.08.2025 to 29.08.2025
Sample Description	: Ambient Air	Date of Receiving	: 29.08.2025
Sampling Location	: Digari Village	Analysis Started On	: 30.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 01.09.2025
Location of Testing	: At Laboratory	Time of Sampling	: 09:40 am to 09:40 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.4
Average Relative Humidity (%) : 84.0
Barometric Pressure (mm of Hg) : 753.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01	Concentration of PM10	$\mu g/m^3$	59.03	100.0 (24 Hrs.)
02	Concentration of PM2.5	$\mu g/m^3$	30.41	60.0 (24 Hrs.)
03	Concentration of SO_2	$\mu g/m^3$	7.02	80.0 (24 Hrs.)
04	Concentration of NO_2	$\mu g/m^3$	34.53	80.0 (24 Hrs.)
05	Concentration of Pb	$\mu g/m^3$	BDL	1.0 (24 Hrs.)
06	Concentration of Benzene	$\mu g/m^3$	BDL	5.0 (24 Hrs.)
07	Concentration of NH_3	$\mu g/m^3$	3.95	400.0 (24 Hrs.)
08	Concentration of CO	mg/m^3	0.117	4.0 (24 Hrs.)
09	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0 (24 Hrs.)
10	Concentration of As	ng/m^3	BDL	6.0 (24 Hrs.)
11	Concentration of Ni	ng/m^3	BDL	20.0 (24 Hrs.)
12	Concentration of Ozone as O3	$\mu g/m^3$	< 10.0	100.0 (1 Hr.)

* BDL Stands for Below detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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Annexure -3

DVC Water Permission

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग
केंद्रीय जल आयोग
दामोदर घाटी जलाशय नियंत्रण यूनिट
मैथन, धनबाद (झारखण्ड)

सत्यमेव जयते

Government of India
Ministry of Jal Shakti
Dept. of Water Resources, RD&GR
Central Water Commission
Damodar Valley Reservoir Regulation Unit
Maithon, Dhanbad (Jharkhand)

No. MD/DVRR/W-6/146(MSPL-Unit-II)/2024/ 553-58 Date: 20.09.2024

To

The Director
Maithan Steel & Power Limited
Chittaranjan Road, Dendua More
P.O &P.S- Salanpur
District-Paschim Bardhaman
West Bengal-713357

Sub:- Concurrence for drawl of additional 0.1649 MGD (enhancement from 0.275 MGD to 0.4399 MGD) raw water from River Barakar downstream of Maithon Reservoir near Kalyaneshwari Burning Ghat regarding:

Ref : (i) Your application No. MSPL-U2/SMS/22-23/71 dated 27.03.2023
(ii) WBIDC Letter No-WBIDC/DVRRCC/23-24/641 dated 12.06.2023
(iii) DVRRC Letter No MD/DVRR/W-6(148)/2024/505-28 dated 13.09.2024.

Sir,

Please refer the letter under reference (i) vide which request was made for allocation of **additional 0.1649 MGD (enhancement from 0.275 MGD to 0.4399 MGD)** of raw water from River Barakar downstream of Maithon Reservoir near Kalyaneshwari Burning Ghat for expansion of project Maithan Steel & Power Limited, Unit-II, Nakrajoria, P.O-Salanpur, District-Paschim Bardhaman, West Bengal. NOC was obtained from Executive Director, West Bengal Industrial Corporation Limited vide letter under reference (ii). On the recommendation of the 33rd Sub-Committee of DVRRC, the proposal has been accepted by Damodar Valley Reservoir Regulation Committee (DVRRC) in its 148th meeting held on 04.09.2024 at Ranchi. The Minutes of the 148th DVRRC meeting has already been circulated to the concerned officials vide letter under reference (iii). The earlier allocation of 0.275 MGD was concurred vide this Office Letter No MD/DVRR/WA-6(Part-VIII)/MAITHAN STEEL & POWER LTD./2019/ 651-56 dated 08.03.2019. **Now, the concurrence of DVRRC for allocation of additional 0.1649 MGD (enhancement from 0.275 MGD to 0.4399 MGD) of raw water is hereby conveyed** for drawl from River Barakar downstream of Maithon Reservoir subject to the following conditions :

(A) Exact location for drawl of water may be decided in consultation with DVC. The water shall be drawn from the reservoir as and when available and intake structure/conveyance system should be designed accordingly. As sufficient water in the reservoir may not be available during certain days in the year particularly during summer months, you may have to make your own arrangement for captive storage to meet water requirement in such situations.

(B) Adequate care should be taken in design and construction of the intake structure to ensure availability of water even during summer months. The intake structure should also be able to withstand the high levels in the river.

(C) The intake point and concurrence of water drawl of additional 0.1649 MGD (enhancement from 0.275 MGD to 0.4399 MGD) is project specific. The water drawn shall, in no way be utilized by the firm for any other purposes.

(D) You shall have to execute an Agreement with DVC and pay charges to DVC for the water drawn by it as per the terms and conditions in force. The allocation will come into effect from the day of execution of the agreement with DVC. The allocation of water will be treated as cancelled, if your office does not apply to DVC for executing an Agreement for drawl of water within a period of 3 (three) months from the date of issue of this letter.

(E) Drawl of water should start within 24 months from the date of issue of this letter. In case of non drawl after lapse of 24 months from the date of issue of this letter, the allocation shall deemed to be cancelled and the firm will have to apply afresh for revalidation of allocation.

The present allocation is temporarily allocated subject to fulfilment of all the primary formalities within the stipulated time period.

Yours faithfully

(Shashi Rakesh)
Member Secretary, DVRRC

Copy to:

1. Chief Engineer (West), I&WD, Government of West Bengal, Kanainatsal, Sripally, Purba Bardhaman, West Bengal- 713103.
2. Executive Director, West Bengal industrial Development Corporation, Protiti, 23, Abanindranath Thakur Sarani (Camac Street), Kolkata-700017.
3. Executive Director (Civil) & HoP, Damodar Valley Corporation, Maithon.
4. Senior Manager (Civil) & Manager Reservoir Operation, Damodar Valley Corporation, Maithon.
5. Senior Manager (Civil), Water Tariff Cell, Damodar Valley Corporation, Maithon- It is requested that while executing the Agreement, all the suggestions as recommended by DVRRRC during 148th DVRRC Meeting pertaining to allocation of water for M&I uses may be implemented.

रिया नंबर 2
मैथन डैम - ८२८२०७
दूरभाष: ०६५४०-२७४२१४ ,
ई मेल: sehocmaithon-cwc@gov.in
♦जल संरक्षण-सुरक्षित भविष्य♦

Area No 2,
Maithon Dam-828207
Tel: 06540-274214
E-mail: sehocmaithon-cwc@gov.in
♦Conserve Water- Save Life♦

Annexure - 4

CER EXPENDITURE DETAILS

Annexure-4

Maithan Steel & Power Ltd. Unit-II

Nakrajoria, Pachim Bardhaman (WB)

Corporate Environmental Responsibility (CER)

Public Consultation Action Plan as per MoEF & CC O.M dated 30.09.2020

Sl. No.	Concerns Raised During the Public Hearing	Physical Activity to be done	Budget in Lakhs			Total Budget (In Lakhs)
			1st Year	2nd Year	3rd Year	
1	Skill Development & Woman empowerment	Skill Development: Vocational training at plant, Seminar on farming & animal husbandry. Women Empowerment: Helping self-help groups and financial assistance to women to start their livelihood.	30.0	20.0	0	75.0
2	Water Conservation and Drainage system	Restoration of local ponds and construction of rainwater harvesting structures in the local community.	10.0	10.0	15.0	35.0
3	Infrastructure Development	Road construction, Repair of school Buildings, Village Road Repairing	50.0	50.0	44.0	144.0
4	Upgradation of health facility	Providing Beds, Oxygen cylinders, health check-up instruments to the Primary Health Centres & Hospitals	13.0	14.0	5.0	32.0
5	Avenue Plantation	Plantation of saplings along roads, highways, pathway and on the roads towards primary health centres and schools in the villages.	5.0	3.0	2.0	10.0
Budge as per PH issues to be spent mostly in the nearby villages- Khudika, Roopnagar, Dendua, Salanpur & Harishadi.			**108.0**	**97.0**	**66.0**	**271.0**
Budget as activities targeted under Model Village Development Programme (2 villages)			**12.0**	**10.0**	**7.0**	**29.0**
Total			**120.0**	**107.0**	**73.0**	**300.0**

Details of CER Expenditure for the Financial Year 2025-26 (upto Sep,2025)

Sl. No.	Concern raised during the Public Hearing	Physical Activity to be done	Budget (in Lakh)	Expenses incurred (in lakh)	Remark
			1st Year	2025-26 (upto Sep,2025)	
1	Skill Development & Woman empowerment	Skill Development: Vocational training at plant, Seminar on farming & animal husbandry. **Donation to Charitable trust Manjori for poor student.** **Women Empowerment:** Helping self-help groups and financial assistance to women to start their livelihood.	30.00	31.62	**Target achieved**
2	Water Conservation and Drainage system	Restoration of local ponds and construction of rainwater harvesting structures in the local community.	10.00	Under Planning	
3	Infrastructure Development	Road construction, Repair of school Buildings, Village Road Repairing	50.0	5.75	
4	Upgradation of health facility	Providing Beds, Oxygen cylinders, **health check-up** instruments to the Primary Health Centres & Hospitals and conducted blood donation camp.	13.00	2.09	
5	Avenue Plantation	Plantation of saplings along roads, highways, pathway and on the roads towards primary health centres and schools in the villages.	5.0	4.06	
Total Amount (Rs.)			**108.00**	**43.52**	

MAITHAN STEEL & POWER LTD. KOLKATA

Annexure -5

CTE

Annexure – 5

WEST BENGAL POLLUTION CONTROL BOARD
(Department of Environment, Government of West Bengal)
Paribesh Bhawan, 10A, Block – LA, Sector III, Bidhannagar
Kolkata – 700 106, Ph.: (033) 2202-3000, Fax : (033)2202-3099
Website: www.wbpcb.gov.in, Email: net.wbpcb-wb@bangla.gov.in

Memo No 526 2N-19/2009(E)-Part-I

Date 02/05/2025

To

M/s. Maithan Steel and Power Ltd., Unit - II
9, AJC Bose Road, Shakespeare Sarani, Kolkata - 700017, West Bengal.

Sub: Your application for Consent to Establish (CTE) for proposed expansion of the existing Steel Melting Shop (3,75,000 TPA to 8,89,000 TPA), Rolling Mill (2,97,000 TPA to 8,40,000 TPA) with Reheating Furnaces, Cold Drawing Workshop (33,000 TPAA to 70,000 TPA) with 1,05,000 TPA Slag Crushing Unit and 60,000 TPA Protective Coating Workshop within existing Steel Plant located at Village - Nakrajoria, Tehsil - Salanpur, District - Paschim Bardhhaman, Pin – 713357, West Bengal.

Ref: EC issued vide no. **EC23A1008WB5435864N,** dated **20/03/2025**

Sirs,

In reference to your Consent to Establish application for project mentioned above, this is to inform you that the West Bengal Pollution Control Board has scrutinized and processed your WBOCMMS application no. **6449252** having project cost of **Rs. 19800 (in Lakhs)** for which payment of necessary fees duly received.

Since, above mentioned project obtained Environmental Clearance (EC) from **MoEF & CC, New Delhi,** no CTE is required to be obtained from the West Bengal Pollution Control Board as per the provision of Gazzette Notification issued by MoEF & CC vide no. GSR 702 and GSR 703 dated 12-11-2024.

All the conditions as stipulated in the abovementioned Environmental Clearance should be strictly complied with. You are required to obtain all necessary permission/clearances from various Government Authorities, as applicable for the project.

You are also required to obtain Consent to Operate (CTO) from the State Board as per the provision of the sub-section (1) of Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and sub-section (1) of Section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

02/05/2025

Chief Engineer (EIM Cell)

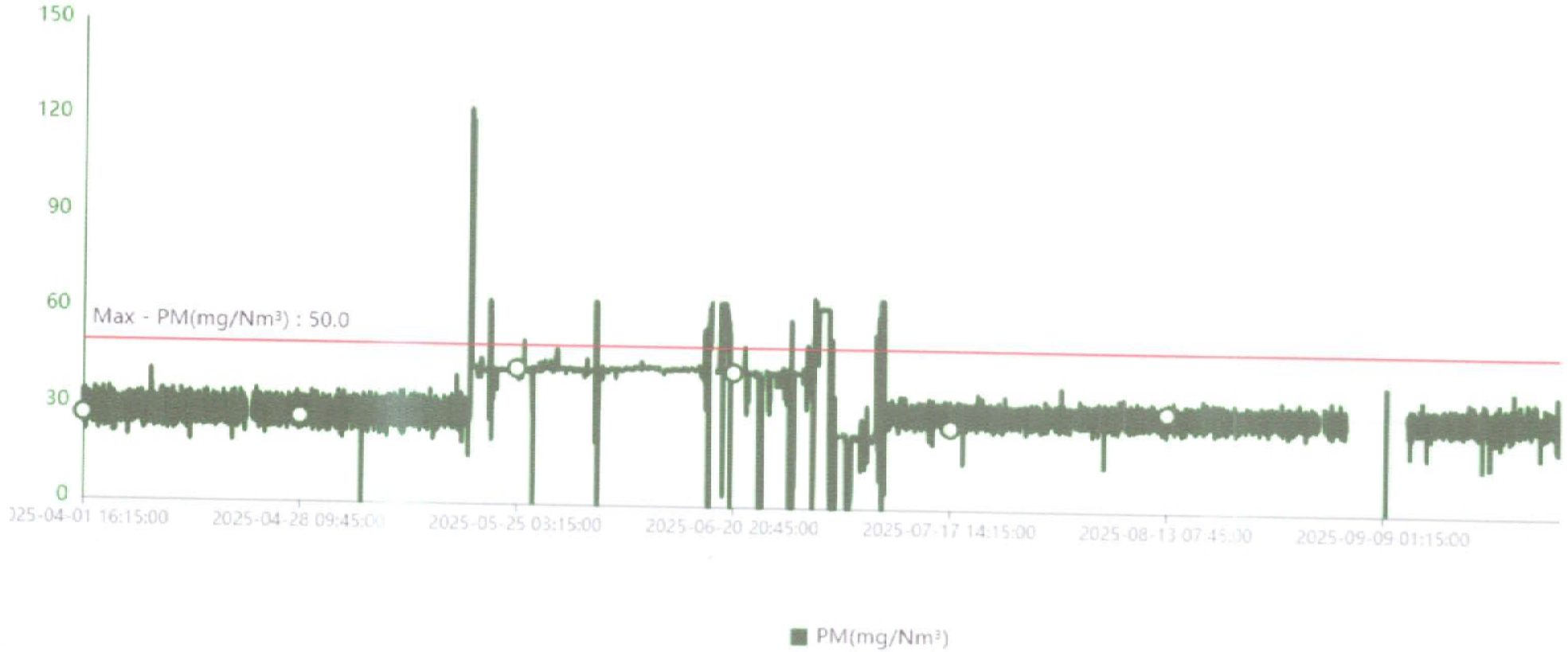
Annexure -6A

(OCEMS DATA)

Maithan Steel & Power Ltd (Unit II) Stack_2_InductionFurnance_03x20TPH

Village Nakrajoria, P.O. & P.S. Salanpur, Dist. Paschim Bardhman, PIN 713357, Salanpur, West Bengal-713357

Start Date - 2025-04-01
End Date - 2025-09-30
Average - 15 Minutes



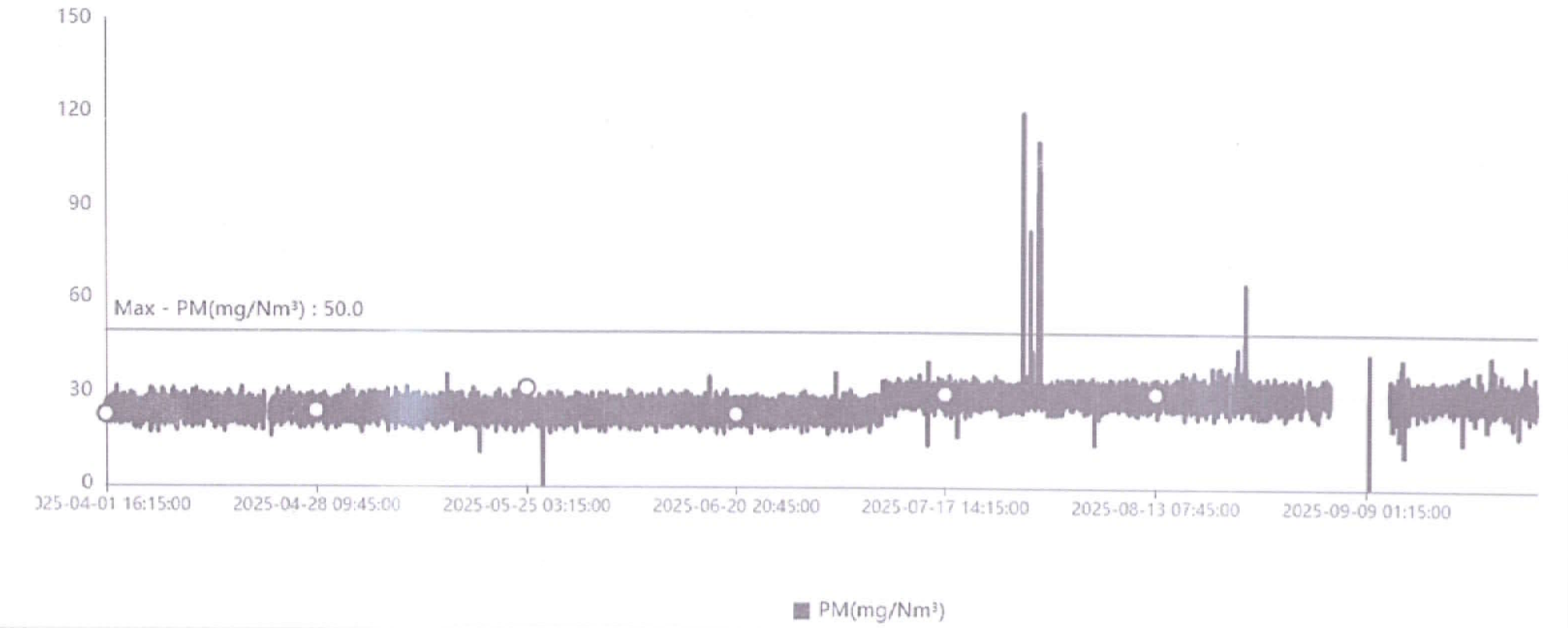
Maithan Steel & Power Ltd (Unit II) Stack_1 _Induction Furnace_Maithan-U-2_ Salanpur

Start Date - 2025-04-01

End Date - 2025-09-30

Average - 15 Minutes

Village Nakrajoria, P.O. & P.S. Salanpur, Dist. Paschim Bardhman, PIN 713357, Salanpur, West Bengal-713357



Annexure -6B

(STACK MONITORING)

GREENVISION
(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision | U.L.R. No. : TC152882500000735F

Report No.	: GV/AR/25-26/292	Sample Ref. ID	: AS-139-2025(5)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025
		Sample Received On	: 27.08.2025
Sample Description	: Stack Air	Analysis Started On	: 27.08.2025
Sampling Location	: Induction Furnace	Analysis Completed On	: 27.08.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 11:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01.	Particulars of plant	: Integrated Steel Plant (SMS – 2)		
02.	Stack connected to	: Induction Furnace No. 1,2 & 3 (Common Stack)		
03.	Material of construction	: M.S.		
04.	Shape of stack	: Circular		
05.	Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06.	Height of sampling from G.L (mtr)	: 20.0	from L.D.Z (mtr)	: ---
07.	Internal stack diameter at sampling point (mtr)	: 2.7		
08.	Emission due to	: Melting of Sponge Iron & Scrape		
09.	Steam generation capacity: (rated)	: ---	(running)	: ---
10.	Load of source: (rated)	: ---	(running)	: 20 MT/Heat/Furnace

B. FUEL CHARACTERISTIC REPORT

01.	Type of fuel used	: Electricity	
02.	Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---
05.	Rated fuel consumption	: ---	
06.	Working fuel consumption	: ---	

C. RESULTS OF GASEUS EMISSION SAMPLING

		Test Method
01.	Flue gas temperature (^{0}C)	65	CPCB, Emission Regulation (Part III)
02.	Barometric pressure (mm of Hg)	753.0	CPCB, Emission Regulation (Part III)
03.	Velocity of flue gas (m/sec)	5.80	CPCB, Emission Regulation (Part III)
04.	Quantity of gas flow (Nm^3/hr.)	104352.97	CPCB, Emission Regulation (Part III)
05.	Concentration of Particulate Matter (mg/ Nm^3)	20.16	IS:11255 (Part 1), 1985, Reaffirmed 2014
06.	Particulate Matter normalized at 12% CO_2	---	IS:11255 (Part 1), 1985, Reaffirmed 2014
07.	Concentration of SO_2 (mg/ Nm^3)	---	IS:11255 (Part 2), 1985, Reaffirmed 2014
08.	Concentration of CO_2 (% V/V)	2.6	IS:13270:1992, Reaffirmed 2014
09.	Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

Pollution Control Device : Bag Filter
Permanent Ladder and Platform : Yes

Reviewed By
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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End of the report.....

City Office : 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph. : 9433158173
Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

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TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision — U.L.R. No. : TC1528825000000736F

Report No	: GV/AR/25-26/293	Sample Ref. ID	: AS-139-2025(6)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur. Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025
		Sample Received On	: 27.08.2025
Sample Description	: Stack Air	Analysis Started On	: 27.08.2025
Sampling Location	: Induction Furnace	Analysis Completed On	: 27.08.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 02:30 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant		: Integrated Steel Plant (SMS-1)		
02. Stack connected to		: Induction Furnace No. 1,2 ,3 & 4 (Common Stack)		
03. Material of construction		: M.S.		
04. Shape of stack		: Circular		
05. Height of stack from G.L (mtr)		: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)		: 20.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)		: 1.2		
08. Emission due to		: Melting of Sponge Iron & Scrape		
09. Steam generation capacity:	(rated)	: ---	(running)	: ---
10. Load of source:	(rated)	: ---	(running)	: 15 MT/Heat/Furnace

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Electricity	
02. Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---
05. Rated fuel consumption	: ---	
06. Working fuel consumption	: ---	

C. RESULTS OF GASEUS EMISSION SAMPLING		Test Method
01. Flue gas temperature (°C)	71	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	753.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	15.95	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($Nm^3/hr.$)	55659.49	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	25.78	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 12% CO_2	---	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of SO_2 (mg/Nm^3)	---	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of CO_2 (% V/V)	2.8	IS:13270:1992, Reaffirmed 2014
09. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014
Pollution Control Device	: Bag Filter	
Permanent Ladder and Platform	: Yes	

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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End of the report.....

City Office : 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph. : 9433158173
Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

Annexure -7

(FUGITIVE EMISSION MONITORING REPORT)

GREENVISION
(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000739F

Report No.	: GV/AR/25-26/290	Sample Ref. ID	: AS-139-2025(3)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025
		Date of Receiving	: 27.08.2025
Sample Description	: Fugitive Air	Analysis Started On	: 28.08.2025
Sampling Location	: SMS-1	Analysis Completed On	: 29.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 10:10 am to 06:10 pm
Location of Testing	: At Laboratory		
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.2

Barometric Pressure (mm of Hg) : 753.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu g/m^3$	850.16	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu g/m^3$	7.9	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu g/m^3$	35.19	IS : 5182 (Part 6),2006

Limit : (µg/m3) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by **M/s. Greenvision** — **U.L.R. No. : TC1528825000000740F**

Report No.	: GV/AR/25-26/291	Sample Ref. ID	: AS-139-2025(4)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling Date of Receiving	: 26.08.2025 : 27.08.2025
Sample Description	: Fugitive Air	Analysis Started On	: 28.08.2025
Sampling Location	: SMS-2	Analysis Completed On	: 29.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 10:40 am to 06:40 pm
Location of Testing	: At Laboratory		
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.2

Barometric Pressure (mm of Hg) : 753.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu g/m^3$	1120.46	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu g/m^3$	8.77	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu g/m^3$	36.48	IS : 5182 (Part 6),2006

Limit : ($\mu g/m3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

U.L.R. No. : TC1528825000000741F

Sample is drawn by **M/s. Greenvision**

Report No.	: GV/AR/25-26/294	Sample Ref. ID	: AS-139-2025(7)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025 To 27.08.2025
Sample Description	: Fugitive Air	Date of Receiving	: 27.08.2025
Sampling Location	: Rolling Mill - 1	Analysis Started On	: 28.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 29.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 06:50 pm to 02:50 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 30.4

Barometric Pressure (mm of Hg) : 753.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu g/m^3$	891.38	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu g/m^3$	7.02	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu g/m^3$	35.19	IS : 5182 (Part 6),2006

Limit : ($\mu g/m3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

U.L.R. No. : TC1528825000000742F

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/25-26/295	Sample Ref. ID	: AS-139-2025(8)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025 To 27.08.2025
Sample Description	: Fugitive Air	Date of Receiving	: 27.08.2025
Sampling Location	: Rolling Mill - 2	Analysis Started On	: 28.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 29.08.2025
Location of Testing	: At Laboratory	Time of Sampling	: 07:20 pm to 03:20 am
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 30.4

Barometric Pressure (mm of Hg) : 753.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu g/m^3$	873.08	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu g/m^3$	7.9	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu g/m^3$	34.53	IS : 5182 (Part 6),2006

Limit : ($\mu g/m3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000752F

Report No.	: GV/AR/25-26/299	Sample Ref. ID	: AS-139-2025(12)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 27.08.2025
		Date of Receiving	: 28.08.2025
Sample Description	: Fugitive Air	Analysis Started On	: 29.08.2025
Sampling Location	: Crusher Area	Analysis Completed On	: 30.08.2025
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 11:05 am to 07:05 pm
Location of Testing	: At Laboratory		
Sampling Method	: CPCB, Emission Regulation (Part III)		

A. METROLOGICAL INFORMATION

Average Temperature (^{0}C) : 31.5

Barometric Pressure (mm of Hg) : 753.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu g/m^3$	1377.62	IS : 5182 (Part 4),1999
02.	Concentration of SO_2	$\mu g/m^3$	8.77	IS : 5182 (Part 2),2006
03.	Concentration of NO_2	$\mu g/m^3$	35.82	IS : 5182 (Part 6),2006

Limit : (µg/m3) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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Annexure-8

Air Pollution Control Device (Bag Filter) attached with Stack

Annexure- 9

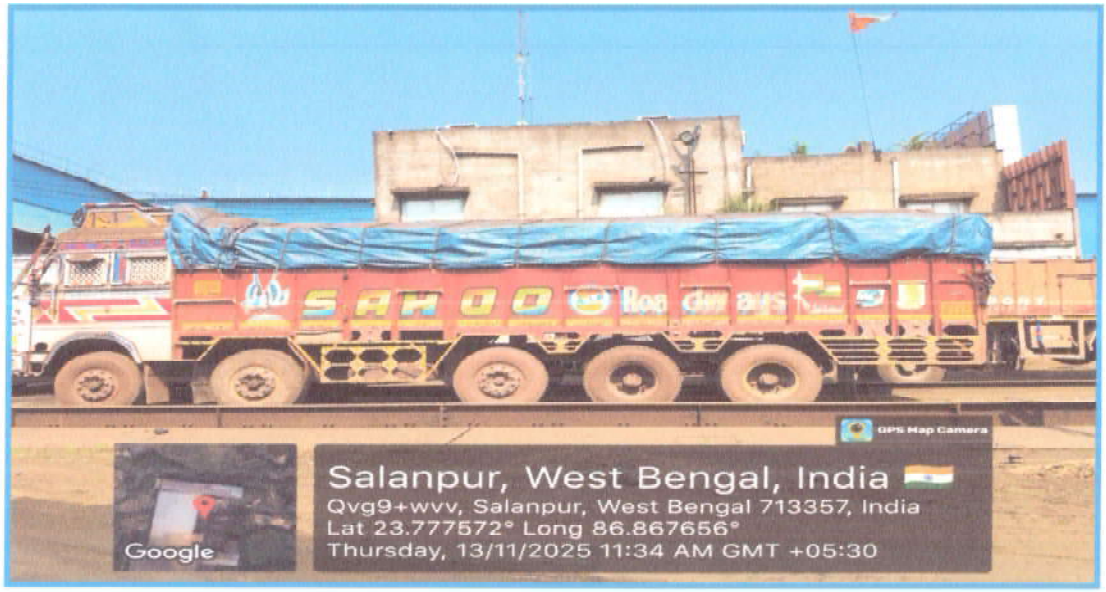
Water Sprinkling Inside the Plant by Water Tanker

Annexure - 10

Dedicated Housekeeping Team

Annexure-11

Raw Material Trucks Covered by Tarpaulin



Annexure -12

(STP WATER ANALYSIS REPORT)

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TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by **M/s. Greenvision**

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC1528825000000746F

Report No.	: GV/WW/25-26/058	Sample Ref. ID	: WS-058-2025(1)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025
Sample Description	: Waste Water	Date of Receiving	: 27.08.2025
Sampling Location	: STP Inlet	Analysis Started on	: 27.08.2025
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Completed on	: 01.09.2025
Type of Sample	: Industrial Waste Water	Time of Sampling	: 03:50 pm
Testing Location	: At Laboratory		

Sampling & Preservation Method : APHA 24rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
pH	APHA 24rd EDITION,4500-H+B	---	8.38	6.5-8.5
Total Suspended Solid(TSS)	APHA 24rd EDITION, 2540 D	mg/l	84.0	< 100.0
Chemical Oxygen Demand (COD)	APHA 24rd EDITION, 5220 B	mg/l	154.0	< 250.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	31.55	< 30.0
Oil & Grease	APHA 24rd EDITION, 5520 A	mg/l	3.31	< 10.0
Fecal Coliform	APHA 24th EDITION, 9221 D	MPN/100 ml	8×10^3	< 1000.0

Note : This treated water can be used as flashing water in the toilets

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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End of the report.....

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC1528825000000747F

Report No.	: GV/WW/25-26/059	Sample Ref. ID	: WS-058-2025(2)
Name of Customer	: M/s. Maithan Steel & Power ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2025
Sample Description	: Waste Water	Date of Receiving	: 27.08.2025
Sampling Location	: STP Outlet	Analysis Started on	: 27.08.2025
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Completed on	: 01.09.2025
Type of Sample	: Industrial Waste Water	Time of Sampling	: 04:05 pm
Testing Location	: At Laboratory		

Sampling & Preservation Method : APHA 24rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
pH	APHA 24rd EDITION,4500-H+B	---	7.58	6.5-8.5
Total Suspended Solid(TSS)	APHA 24rd EDITION, 2540 D	mg/l	19.0	< 100.0
Chemical Oxygen Demand (COD)	APHA 24rd EDITION, 5220 B	mg/l	55.0	< 250.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	10.45	< 30.0
Oil & Grease	APHA 24rd EDITION, 5520 A	mg/l	2.9	< 10.0
Fecal Coliform	APHA 24th EDITION, 9221 D	MPN/100 ml	4×10^2	< 1000.0

Note : This treated water can be used as flashing water in the toilets

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Annexure -13

(GROUND WATER ANALYSIS REPORT)

GREENVISION
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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	U.L.R. No.	:	TC1528825000000759
Sample Identification	:	Nil	Laboratory Ref. No.	:	GS-022-2025(4)
Report No.	:	GV/GW/25-26/079	Report Date	:	05.09.2025
Issued To	:	M/s. Maithan Steel & Power Ltd. (Unit – II)	Date of Sampling	:	27.08.2025
Address	:	Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Sample Received on	:	28.08.2025
			Analysis Started on	:	29.08.2025
Sample Condition	:	In Glass Bottle & Plastic Bottle	Analysis Completed on	:	04.09.2025
Sample Description	:	Ground Water	Time of Sampling	:	04:35 pm
Sampling Method	:	APHA 24th EDITION, 1060	Testing Location	:	At Laboratory
Location	:	Tube Well at Dendua Village			

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1	pH (at 25°C)	-	8.01	6.5 to 8.5	No Relaxation	4500-H^+ B
2	Colour	Hazen	1.0	5.0	15.0	2120 B
3	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5	Turbidity	N.T.U.	0.58	1	5	2130 B
6	Conductivity	µS/cm	740.0	-	-	2510 B
7	Total Dissolved Solid (TDS)	mg/L	525.0	500	2000	2540 C
8	Total Hardness as $CaCO_3$	mg/L	240.0	200	600	2340 C
9	Chloride as Cl	mg/L	72.85	250	1000	4500Cl⁻ B
10	Total Alkalinity as $CaCO_3$	mg/L	260.0	200	600	2320 B
11	Sulfate as SO_4	mg/L	46.46	200	400	4500 SO_4^{2-} E
12	Nitrate as NO_3^-	mg/L	4.4	45.0	No Relaxation	4500 NO_3^-
13	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

Contd.....

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Recongnized by West Bengal Pollution Control Board
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14.	Calcium as Ca	mg/L	40.08	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	34.02	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.25	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	U.L.R. No.	:	TC1528825000000758
Sample identification	:	Nil	Laboratory Ref. No.	:	GS-022-2025(3)
Report No.	:	GV/GW/25-26/078	Report Date	:	05.09.2025
Issued To	:	M/s. Maithan Steel & Power Ltd. (Unit – II)	Date of Sampling	:	27.08.2025
Address	:	Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Sample Received on	:	28.08.2025
			Analysis Started on	:	29.08.2025
mple Condition	:	In Glass Bottle & Plastic Bottle	Analysis Completed on	:	04.09.2025
Sample Description	:	Ground Water	Time of Sampling	:	04:05 pm
Sampling Method	:	APHA 24th EDITION, 1060	Testing Location	:	At Laboratory
Location	:	Tube Well at Digari Village			

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1	pH (at 25°C)	-	7.95	6.5 to 8.5	No Relaxation	4500-H^+ B
2	Colour	Hazen	1.0	5.0	15.0	2120 B
3	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5	Turbidity	N.T.U.	1.65	1	5	2130 B
6	Conductivity	µS/cm	991.0	-	-	2510 B
7	Total Dissolved Solid (TDS)	mg/L	723.0	500	2000	2540 C
8	Total Hardness as $CaCO_3$	mg/L	210.0	200	600	2340 C
9	Chloride as Cl	mg/L	75.84	250	1000	4500Cl⁻ B
10	Total Alkalinity as $CaCO_3$	mg/L	240.0	200	600	2320 B
11	Sulfate as SO_4	mg/L	52.21	200	400	4500 SO_4^{2-} E
12.	Nitrate as NO_3^-	mg/L	4.6	45.0	No Relaxation	4500 NO_3^-
13	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

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14.	Calcium as Ca	mg/L	44.09	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	24.3	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.27	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	U.L.R. No.	:	TC1528825000000757
Sample identification	:	Nil	Laboratory Ref. No.	:	GS-022-2025(2)
Report No.	:	GV/GW/25-26/077	Report Date	:	05.09.2025
Issued To	:	M/s. Maithan Steel & Power Ltd. (Unit – II)	Date of Sampling	:	27.08.2025
Address	:	Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Sample Received on	:	28.08.2025
			Analysis Started on	:	29.08.2025
Sample Condition	:	In Glass Bottle & Plastic Bottle	Analysis Completed on	:	04.09.2025
Sample Description	:	Ground Water	Time of Sampling	:	03:30 pm
Sampling Method	:	APHA 24th EDITION, 1060	Testing Location	:	At Laboratory
Location	:	Tube Well at Nakrajoria Village			

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	7.86	6.5 to 8.5	No Relaxation	4500-H^+ B
2.	Colour	Hazen	1.0	5.0	15.0	2120 B
3.	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4.	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5.	Turbidity	N.T.U.	0.86	1	5	2130 B
6.	Conductivity	µS/cm	786.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	558.0	500	2000	2540 C
8.	Total Hardness as $CaCO_3$	mg/L	340.0	200	600	2340 C
9.	Chloride as Cl	mg/L	43.71	250	1000	4500Cl⁻ B
10.	Total Alkalinity as $CaCO_3$	mg/L	290.0	200	600	2320 B
11.	Sulfate as SO_4	mg/L	44.16	200	400	4500 SO_4^{2-} E
12.	Nitrate as NO_3^-	mg/L	4.0	45.0	No Relaxation	4500 NO_3^-
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

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14.	Calcium as Ca	mg/L	64.13	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	43.74	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.24	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

B(tands for Below Detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	:	Vikas Ram of M/s. Greenvision	U.L.R. No.	:	TC1528825000000756
Sample identification	:	Nil	Laboratory Ref. No.	:	GS-022-2025(1)
Report No.	:	GV/GW/25-26/076	Report Date	:	05.09.2025
Issued To	:	M/s. Maithan Steel & Power Ltd. (Unit – II)	Date of Sampling	:	27.08.2025
Address	:	Mouza : Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Sample Received on	:	28.08.2025
			Analysis Started on	:	29.08.2025
mple Condition	:	In Glass Bottle & Plastic Bottle	Analysis Completed on	:	04.09.2025
Sample Description	:	Ground Water	Time of Sampling	:	03:10 pm
Sampling Method	:	APHA 24th EDITION, 1060	Testing Location	:	At Laboratory
Location	:	Tube Well at Salanpur Village			

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1	pH (at 25°C)	-	7.43	6.5 to 8.5	No Relaxation	4500-H^+ B
2	Colour	Hazen	1.0	5.0	15.0	2120 B
3	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5	Turbidity	N.T.U.	1.02	1	5	2130 B
6	Conductivity	µS/cm	795.0	-	-	2510 B
7	Total Dissolved Solid (TDS)	mg/L	565.0	500	2000	2540 C
8	Total Hardness as $CaCO_3$	mg/L	370.0	200	600	2340 C
9	Chloride as Cl	mg/L	48.57	250	1000	4500Cl B
10	Total Alkalinity as $CaCO_3$	mg/L	290.0	200	600	2320 B
11	Sulfate as SO_4	mg/L	43.70	200	400	4500 SO_4^{2-} E
12	Nitrate as NO_3^-	mg/L	3.8	45.0	No Relaxation	4500 NO_3^-
13	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

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14.	Calcium as Ca	mg/L	72.14	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	46.17	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.22	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Annexure- 14

Rainwater Harvesting System

Annexure -15

(Work Zone Noise Monitoring Result)

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC15288250000000754F	
Report No.	: GV/NL/25-26/058	Sample Ref. ID	: NLM-033-2025(5)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:27.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Location	: SMS - 1	Starting Time	: 12:35 pm
Noise Level Limit	: 90 dB(A) [8 Hrs. Exposure] { Source : W.B. Factories Act, 1948}	Sampling Method	: IS : 9989 :1981
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)		
L_{min}	L_{max}	L_{eq}
74.8	81.3	77.8

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000755F	
Report No.	: GV/NL/25-26/059	Sample Ref. ID	: NLM-033-2025(6)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:27.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Location	: SMS - 2	Starting Time	: 03:02 pm
Noise Level Limit	: 90 dB(A) [8 Hrs. Exposure] { Source : W.B. Factories Act, 1948}	Sampling Method	: IS : 9989 :1981
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)		
L_{min}	L_{max}	L_{eq}
72.9	84.2	77.3

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000765F	
Report No.	: GV/NL/25-26/060	Sample Ref. ID	: NLM-033-2025(7)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:28.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Location	: Rolling Mill - 1	Starting Time	: 11:02 am
Noise Level Limit	: 90 dB(A) [8 Hrs. Exposure] { Source : W.B. Factories Act, 1948}	Sampling Method	: IS : 9989 :1981
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)		
L_{min}	L_{max}	L_{eq}
76.7	84.6	80.6

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000766F	
Report No.	: GV/NL/25-26/061	Sample Ref. ID	: NLM-033-2025(8)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:28.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Location	: Rolling Mill - 2	Starting Time	: 12:35 pm
Noise Level Limit	: 90 dB(A) [8 Hrs. Exposure] (Source : W.B. Factories Act, 1948)	Sampling Method	: IS : 9989 :1981
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)		
L_{min}	L_{max}	L_{eq}
80.2	85.2	81.9

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000767F	
Report No.	: GV/NL/25-26/062	Sample Ref. ID	: NLM-033-2025(9)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:28.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Location	: Crusher Area	Starting Time	: 03:18 pm
Noise Level Limit	: 90 dB(A) [8 Hrs. Exposure] { Source : W.B. Factories Act, 1948}	Sampling Method	: IS : 9989 :1981
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)		
L_{min}	L_{max}	L_{eq}
71.8	81.2	77.0

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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City Office : 84/10,Roy Bahadur Road, Behala, Kolkata-700 034, Ph. : 9433158173
Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

Annexure -16

(Ambient Noise Monitoring Result)

GREENVISION
(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
TC-15288
Urvashi Malhar, Phase II, MSAV-35, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000743F	
Report No.	: GV/NL/25-26/054	Sample Ref. ID	: NLM-033-2025(1)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:26.08.2025 to 27.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Sampling Location	: East Side of Plant (Near Main Gate)	Sampling Method	: IS : 9989 :1981
Noise Level Limit	: Day Time : 75 dB(A), Night Time : 65 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000}		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)					
Day Time (10:08 Hrs to 11:08 Hrs.)			Night Time (01:05 Hrs. to 02:05 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
72.3	60.8	67.0	57.2	50.5	52.7

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000744F	
Report No.	: GV/NL/25-26/055	Sample Ref. ID	: NLM-033-2025(2)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:26.08.2025 to 27.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Sampling Location	: West Side of Plant (Near Boundary Wall)	Sampling Method	: IS : 9989 :1981
Noise Level Limit	: Day Time : 75 dB(A), Night Time : 65 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000}		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)					
Day Time (11:30 Hrs to 12:30 Hrs.)			Night Time (23:36 Hrs. to 00:36 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
68.3	61.5	65.5	57.2	50.2	53.8

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by	: M/s. Greenvision	U.L.R. No. : TC1528825000000745F	
Report No.	: GV/NL/25-26/056	Sample Ref. ID	: NLM-033-2025(3)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 05.09.2025
Address of Customer	: Nakrajoria, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	:26.08.2025
Sample Description	: Noise Level	Total Time	: 1 Hr.
Sampling Location	: South Side of Plant (Near Gate No : 2)	Sampling Method	: IS : 9989 :1981
Noise Level Limit	: Day Time : 75 dB(A), Night Time : 65 dB(A) { Source : The Noise Pollution (Regulation and Control) Rules, 2000}		
Monitoring Details	: Distance from Object : 3.0 Mtr. Height from the Ground : 1.5 Mtr.		
Category of Area	: Industrial Area		

Noise Level dB (A)					
Day Time (13:02 Hrs to 14:02 Hrs.)			Night Time (22:18 Hrs. to 23:18 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
72.5	63.9	68.1	59.3	50.5	54.9

Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
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Annexure-17

Solar Panel installed at Roof Top

SOLAR LIGHTS

Annexure -18

(CTO)

Government of West Bengal

This document having UDIN **25-G-GA000004-C-1754555233175** has been created by **WEST BENGAL POLLUTION CONTROL BOARD** with authorised person's Aadhaar no XXXXXXXX7589 on **01:57PM, August 07, 2025.**

This document is available at UDIN platform till 01:57PM, August 07, 2030.

Authorised Signatory
(E-signed)
Department of IT&E

WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA
Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Category of the Industry : RED
Application Type: CTO
CTO No.: WBPCB/7010905/2025 **Date : 07/08/2025**

Consent to Operate (CTO) under Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

Reference: Application No.: 7010905

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 as amended and Section 21 of the Air (Prevention and control of Pollution) Act, 1981 as amended, and Rules and Orders made thereunder hereby grants Consent to **MAITHAN STEEL AND POWER LTD, UNIT-II** (hereinafter referred to as Applicant) for its unit located at **VILL+MOUZA- NAKRAZORIA, CHITTARANJAN ROAD, PO & PS- SALANPUR, DIST-PASCHIM BARDHAMAN, WEST BENGAL- 713357** for the period from **07/08/2025** to **30/06/2028** to operate the industrial unit/project and to discharge liquid effluent and gaseous emission from the premises / land of the industrial unit/project, in accordance with the conditions as mentioned below, provided that on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in this consent letter and in the Environment (Protection) Act, 1986 and Rules thereunder, as amended.

Breach of the conditions and / or failure to comply with the directions as mentioned below shall render the industry/project liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and Section 21 of the Air (Prevention and control of Pollution) Act, 1981 as amended.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the industry.

Conditions :

1 This Consent is valid for the following activities :

Sl.No	Name of Activity/Products/By-products	Production Capacity (Per Month)
1	Long products like TMT,MS round, wire rod& structural steel & flat products	193000 Metric Tonnes/Year
2	Torkari (Ribbed bars, Black wire, nails, corrugated sheets, wire mesh, MS pipes & structural tubes etc.	2000 Metric Tonnes/Year
3	Recovered metal from Slag Crushing Unit	70000 Metric Tonnes/Year
4	Billet	164000 Metric Tonnes/Year

2 The industry shall remain responsible for quantity and quality of liquid effluent and air emission.

3 Daily waste water generation and discharge shall not exceed :

No. of outlets	Source of Waste Water	Quantity in Kilo Liters/day	Place of discharge
	Industrial	60	Recycled & reuse in process

4 To bring into any altered or new outlet / outfall or to change the place of discharge, the industry shall have to inform the Board and obtain prior permission of the Board in this effect.

5 The industry shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given below:

Outlet No.	Nature of effluent	Parameters and standard			Frequency of sampling
		Parameters	Standards	Unit	
	industrial (effluent from rolling mill))	pH	6.0-9.0		
	industrial (effluent from rolling mill))	Total suspended Solid (TSS)	100	mg/L	
	industrial (effluent from rolling mill))	Oil & Grease	10	mg/L	

Provisions shall be made to install sensor-based Water Quality monitoring system and flow meter to share the information with the state board on a Real Time basis.

6 Daily water consumption for the following purposes shall not exceed

SL NO.	Purpose of Water Use	Quantity (KL/Day)
1.	Industrial	215.0

7 The Industry shall install suitable digital device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board. The device shall be able to provide information to disseminate the quantity on a real time basis.

8 All the stacks connected to various sources of emissions must be designated by numbers.

9 The industry shall install comprehensive pollution control equipment and operate and maintain the same to conform to the standard as given below:

Stack height from ground level (m	Stack attached to emission sources	Capacity of emission source	Cons up-Unit	Fuel details		Control system(if any)	Concentrations of parameters not to exceed							Frequency of sampling	Remarks
				Fuel used	Quantity		PM(mg/Nm3)	CO(%)	Acid Mist(mg/Nm3)	Pb(mg/Nm3)	SO2(mg/Nm3)	NOX (mg/Nm3)	Others		
30	Induction furnace	22	Metric Tonne	electricity	22 Kilo Watt Hr	swiveling hood, spark arrestor and bag filter	30							Quarterly	common with existing 4x16.5 T IFs .

10 The industry shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform etc. for monitoring / sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorized agencies.

11 Waste generation, treatment and disposal shall be as specified below :

S.No	Description of Waste	Quantity	Treatment and Disposal
1	IF Slag	19900 Metric Tonnes/Year	Can replace 30% concrete aggregate & landfill after iron recovery.
2	IF Dust /APCD dust	2190 Metric Tonnes/Year	Reuse in process
3	Mill scale	300 Metric Tonnes/Year	To be recycled to IF as charge for melting
4	MS scrap	3600 Metric Tonnes/Year	Reuse in process

The Industry shall obtain Authorisation for waste and also register for EPR wherever applicable.

12 The industry shall take adequate measures for control of noise level from its own sources within the premises within the limit given below :

Time	Limit in dB (A) Leq
Day time (06 a.m. to 10 p.m.)	65
Night time (10 p.m. to 06 a.m.)	55

Noise barriers should be installed if the Noise Level is found to be exceeding the desired levels.

13 The industry shall at all times maintain good house-keeping and control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and in surrounding areas.

14 The Industry shall bring about at least 33% of the total land area under the tree cover.

15 The Industry shall provide sufficient alternate electric power source like Green DG or Storage Battery System etc. to operate all pollution control facilities. In absence of such alternate power source, the production shall be stopped/controlled to conform to the conditions of the Consent.

16 The industry shall install a separate energy meter showing the consumption of energy for operation of pollution control devices and shall install suitable device for measuring the volume of water consumed for different purposes as mentioned in Sl.No. 3.

17 The Industry shall provide drainage system for discharge of industrial and domestic effluent and a separate drainage system for storm-water.

18 The industry shall maintain a separate register showing consumption of chemicals used in pollution control systems.

19 The Industry shall get the samples of hazardous wastes / leachates analysed at least once in a year from a laboratory recognised by the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

20 The Industry shall submit the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form V) as required under the provisions of Rule 14 of the Environment (Protection) [Second Amendment] Rules 1992 by 30th September of every year, to the WBPCB.

21 The Industry shall allow the officers of the State Board to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring by the State Board as well as by authorized agencies of the State Board, as and when required by them.

22 The industry shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.

23 The Industry shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emission.

24 The Industryshall maintain adequate number of qualified and trained personnel among its staff for propermaintenance and operation of the effluent treatment and/or emission control devices and for overallenvironment management of the industry.

25 The Industry shall have to make registration for the use of groundwater if any, with State Water Investigation Directorate (SWID).

26 The Industry shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant shall (i) take all steps adequate to prevent such accident discharge / release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.

27 If the Industry is using Diesel Generator set or generating any other hazardous waste, it should install a Digital Display Board to discriminate all information as stipulated in this regard.

28 The industry shall make an application to the State Board in the prescribed form for renewal of the consent at lease 120 (one hundred & twenty) days before the date of expiry of this Consent.

29 The industry shall not make any alteration / expansion / modification in the existing manufacturing process and equipment, pollution control system and shall not alter or bring in any new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.

30 The industry shall comply with all applicable Environmental Acts and Rules.

31 The Industry shall comply with the provisions of relevant Waste Management Rules and also submit Annual Returns / Manifests on regular basis.

32 Concealing factual data or submission of false or fabricated data/information may result in revocation of Consent to Operate and attract action under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

Special Conditions:

1.This CTO is valid for additional production of billets-164000 TPA by augmentation & process modification in the existing induction furnaces of 4 X15T capacity to 4X16.5 T IF & 3X20T capacity to 3X22T IF along with installation of new 1x22 T IF with matching CCM & LRF.

The particulate matter emissions from the above mentioned IF stacks shall be less than 30 mg/Nm3 instead of 150 mg/Nm3 as mentioned in the existing CTO.

2.Additional production of Long products like TMT, MS Round, Wire
rod & structural steel & flat products like strips of capacity-193000 TPA shall be achieved by modification and augmentation of existing 1x300 TPD rolling mill to 1x800 TPD rolling mill.

3.2x100 TPD slag crusher to be operated environment friendly manner to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making as mentioned in EC conditions.
Adequate dust suppression system to be operated along with slag crusher to control fugitive dust emission.

4.Three tier Green Belt shall be developed in at least 33% of the project area, as committed, of adequate width and tree density shall not be less than 2500 per ha.

5.The unit shall submit details of activities undertaken as per public hearing issues raised and commitment made as per annexure-IV of EC issued by MoEF & CC vide EC Identification No. EC23A1008WB5435864N, File No. IA-J-11011/679/2008-IA-II(IND-I) dated 20.03.2025 within 30 days from the issuance of this CTO.

All other conditions as stipulated in the above mentioned EC to be strictly complied with.

Any violation of the aforesaid conditions shall entail cancellation of this Consent for Operate.

For and on behalf of West Bengal Pollution Control Board

07/08/2025

Chief Engineer
Environment Impact Management Cell

WEST BENGAL

"This is computer generated document from OCMMS by WBPCB"

Annexure – 19

DE-CARBONISATION PROGRAM

FOR

M/s Maithan Steel & Power Ltd

At
Nakrajoria, Tehsil Salanpur,
Dist. Paschim Bardhaman,
West Bengal

Prepared by

J.M. EnviroNet Pvt. Ltd.
Sohar Digital Greens, Tower – B, Unit No. 1517,
Golf Course Ext. Road, Sector – 61, Gurugram (Haryana) – 122 011

Date of Site visit: 14th-15th, May 2024

MAITHAN STEEL & POWER LIMITED

P.O.:- Bonra, P.S.:- Neturia – 723121, Dist.:- Purulia (WB)

HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA) AND ONSITE EMERGENCY PLAN

Prepared & Checked By

Mr. Gulshan Prajapati

Safety Officer-HSE

Initiated By

Mr. Sourav Agarwal

Factory Manager

Approved By

For MAITHAN STEEL & POWER LTD.

Mr. Mritunjoy Chandra

Director

Director

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PURPOSE:

The purpose of this procedure is to:

1. Ensure that risk management is embedded in MSPL Company's culture and practices;
2. Ensure a systematic approach to risk management;
3. Ensure that hazards are identified, risks are evaluated and appropriate control measures are implemented and monitored;
4. Describe specific risk assessment methodologies that can be applied and against which compliance can be measured.

OBJECTIVES:

The objectives of environmental risk assessment are governed by the following, which excludes natural calamities:

- ✓ Identification of potential hazardous areas so that adequate safety measures can be adopted to reduce the likelihood of accidental events.
- ✓ Identification of the stakeholders and evaluation of their risk along with proposing adequate control techniques.
- ✓ Managing the emergency situation or a disastrous event, if any, during the plant operation.

SCOPE:

This procedure shall apply to all workplace hazards and risks, and all activities are undertaken by MSPL and include:

1. The routine, and non-routine, activities of all persons having access to the workplace;
2. Hazards associated with plant, machinery, and equipment;
3. Hazards associated with substances and materials in the workplace;
4. Hazards originating outside of the workplace that could adversely affect the work environment;
5. Hazards associated with inclement weather or emergency situations;
6. The complete lifecycle of facilities from specification through to decommissioning and disposal.

PROCEDURE:

Abbreviations:

ALARP:	As Low As Reasonably Practicable
FRA:	Fire Risk Assessment
HAC:	Hazardous Area Classification
HAZOP:	Hazard and Operability Study
HIRA:	Hazard Identification and Risk Assessment
JSA:	Job Safety Analysis
HSE:	Health, Safety and Environment
MAWP:	Maximum Allowable Working Pressure
MMI:	Man-Machine Interface
MSDS:	Material Safety Data Sheet
OEM:	Original Equipment Manufacturer
O&M:	Operations and Maintenance
PFD:	Process Flow Diagram
PPE:	Personal Protective Equipment
RACI:	Responsible, Accountable, Consulted, Informed
SOP:	Standard Operating Procedure

PLOYEERESPONSIBILITIES:

All employees of the company are required to observe and abide by this procedure.

Definition of Environmental Risks:

The following terms related to environmental risks are defined before reviewing the environmental risks:

Harm:

Damage to the person, property, or environment.

Hazard:

Something with the potential to cause harm; this could be characteristics of material being processed or malfunctioning of the equipment. An environmental hazard is thus going to be a set of circumstances, which leads to the direct or indirect degradation of environment and damage to the life and property.

Risk:

The probability of the harm or like hood of harmful occurrence. Being released and its severity. Environmental risk is a measure of the potential threat to the environment, life and property.

Risk Ranking:

The numerical value is given to the level of risk based on the risk matrix.

Severity:

Severity describes the highest level of damage possible when an accident occurs from a particular hazard.

Probability:

- Probability is the likelihood or chance that the risk could arise.

Routine Activity:

Routine works are jobs and tasks done at certain defined intervals, to facilitate the normal operation of the plant.

Non-Routine Activity:

Non-routine work are jobs and tasks that are performed irregularly or being performed for the first time.

Since these tasks and jobs are not performed regularly, it can be difficult to understand all of the hazards associated with the job. Non-routine work includes jobs or tasks that are, (but not limited to):

- ✓ Performed infrequently
- ✓ Outside of normal duties
- ✓ Do not have a documented procedure
- ✓ Performed in a different way from the documented procedure
- ✓ Have never been performed before
- ✓ Routine tasks that carry a high level of risk

ntrols:

Precautions put in place to reduce the risk.

Consequence:

Effect due to occurrence of the event, which may endanger the environment permanently or temporarily and or loss of life and property.

Environmental Disaster:

The consequence is so severe that it can extensively damage a one or all the four components of the environment namely a) Physic -Chemical b) Biological c) Human and d) Aesthetics

Residual risk:

Residual risk is the risk remaining, associated with a job or an activity after the precautions are taken.

Associated Studies:

There are a number of associated studies that are outside the scope of this procedure that can never the less provide useful input into the identification of risks and controls.

- **Hazard Operability Study (HAZOP):**
  A HAZOP is a structured and systematic assessment of processes or operations to identify and evaluate problems that may represent risks to personnel or equipment by examining the impact of deviations from normal operations.
- **Hazardous Area Classification (HAC):**
  A HAC assessment involves the evaluation of a manufacturing or process facility to identify areas where potentially flammable atmospheres can occur, to enable the selection of equipment that will minimize the chances of ignition.
- **Fire Risk Assessment(FRA):**
  A FRA is used to identify what needs to be done to prevent fires and protect personnel. It is a structured process for identifying fire hazards, the personnel at risk and what can be done to eliminate or reduce the risks.

Risk Management Process:

The risk management process can be divided into five steps:

1. Identify the hazards.
2. Identify who is at risk or what can be damaged and how.
3. Evaluate the risk and identify any additional control measures necessary to reduce the risk to As Low as Reasonably Practicable (ALARP).
4. Implement control measures in the workplace.
5. Monitor and review the effectiveness of the control measures.

The aim should be to eliminate the hazard or risk wherever practicable. Where it is not possible to eliminate the risk then a hierarchy of controls can be applied ranging from substitution (i.e., the use of less hazardous substances, materials, equipment or processes), through to the application of engineering or administrative controls, and finally the use of personal protective equipment (PPE).

SPL employs the use of three interrelated processes for the assessment and control of workplace risks:

1. Hazard Identification and Risk Assessment (HIRA);
2. Man-Machine Interface (MMI);
3. Job Safety Analysis (JSA).

At the highest level in the risk assessment hierarchy is the HIRA. This is used to evaluate the hazards, risks, and controls associated with MSPL facilities and jobs. The MMI and JSA processes shall be used to provide another level of detail.

Where the HIRA process identifies risks associated with the operation and maintenance of machinery then the MMI process shall be applied. This process is defined to specifically address the hazards, risks, and controls associated with operating and maintaining machinery.

Where the HIRA process identifies non-routine jobs, or jobs that have the potential for high severity consequences, then the JSA process shall be applied. This process breaks jobs up into a series of sequential activities and is used to assess the hazards, risks, and controls associated with each activity.

Hazard Identification and Risk Assessment (HIRA)

The objective of the HIRA process is to provide a systematic basis for the identification of hazards, risks, and controls associated with MSPL facilities and activities and to ensure that all risks are maintained ALARP that could occur as a result of failures in process, procedures, or equipment. Increasing industrial accidents, loss of life & property, public scrutiny, statutory requirements and intense industrial processes, all contribute to a growing need to ensure that risk management is conducted and implemented. It is intended to be a working document that MSPL personnel can use to help them understand the workplace risks and manage them effectively. The identification, implementation and, maintenance of effective controls is key to ensuring that all work place risks are appropriately managed. Employee and contractor participation, consultation and communication are key to a successful outcome.

Applicability

The HIRA process shall address:

1. Routine, and non-routine, activities;
2. Hazards associated with plant, machinery, and equipment;
3. Hazards associated with substances and materials in the workplace;
4. Hazards originating outside of the workplace that could adversely affect the work environment;
5. Hazards associated with inclement weather or emergency situations;
6. The complete life cycle of facilities from specification through to decommissioning.

The HIRA process can be broken down into the following basic steps:

1. Select the job which is to be considered.
2. Describe the job which is to be carried out.
3. Brainstorm all the potential hazards and risks associated with the job.
4. For each credible risk define the worst-case outcome and the existing controls.
5. Assess the probability, severity, and level of risk with the existing controls in place.
6. Agree on any remedial actions or additional controls required.
7. Assess the residual risk following the implementation of the proposed actions or controls.
8. Select the next area of the plant or the next job until the HIRA is complete.

The checklist of potential hazards and controls can be used by HIRA assessment teams. This checklist is only intended to be prompt and is not a substitute for the effective implementation of the HIRA process by knowledgeable and experienced personnel. The teams should have access to any supporting information or documentation that might add value to the assessment such as details of previous incidents, Process Flow Diagrams (PFDs), Material Safety Data Sheets (MSDS) plant layouts, etc.

The MSPL qualitative risk matrix shall be used to assess the probability of occurrence and potential severity of the scenarios considered, which will, in turn, define the level of risk (i.e., no risk, low risk, medium risk or high risk). The risk is assessed based on the potential impact on people, assets, the environment, and company reputation.

Risk Acceptance

Based on the risk level, as derived from the MSPL risk matrix and assigned during the HIRA assessment, the following actions shall be taken to ensure effective risk management.

High Risk

If the residual risk is high, then the operation or activity shall be stopped until additional controls can be implemented or an alternative process or activity can be found that will reduce the risk to an acceptable level.

Medium Risk

If the residual risk is medium, then the assessment team needs to be satisfied that the identified controls are implemented and effective and that no additional controls can be identified to further reduce the risk (i.e., the risk is ALARP).

Low Risk

If the residual risk is low, it is still important to make sure that the identified controls are implemented and effective and to be aware of further opportunities for improvement.

Man-Machine Interface (MMI)

Whenever personnel interface with machinery there is always the potential for severe injuries and, in the worst case, fatalities. To address these specific concerns MSPL has introduced the MMI process. To avoid confusion and ensure consistency this has been aligned to the HIRA methodology. Hazards, risks, and controls are identified in the same way for both the HIRA and MMI processes and the MSPL risk matrix is used in both cases to assess the probability of occurrence, the severity of consequences and risk levels.

Where the MMI process differs is that it requires some basic information on the machine, its condition and operation to be provided prior to starting the assessment sessions. This should be based on the information given in the MSPL and include:

1. Manufacturer's details;
2. Machine type, model number, serial number;
3. Machine description;
4. Energy sources;
5. Safety features;
6. Utilization;
7. Modification history;
8. Availability of operating and maintenance(O&M) manuals;
9. Training records for O&M personnel.

pplicability:

The MMI process shall be applied where the HIRA identifies hazards and risks associated with the operation and maintenance of machinery. It shall be applicable to all machinery either owned, operated or maintained by MSPL and shall address both operation and maintenance activities.

The MMI process can be broken down into the following basic steps:

1. Select the system or subsystem of the machine which is to be considered.
2. Describe the function of the system or subsystem.
3. Brainstorm all the potential hazards and risks associated with the system or subsystem.
4. For each credible risk define the worst-case outcome and the existing controls.
5. Assess the probability, severity, and level of risk with the existing controls in place.
6. Agree on any remedial actions or additional controls required.
7. Assess the residual risk following the implementation of the proposed actions or controls.
8. Select the next system or subsystem until the MMI is complete.

Job Safety Analysis (JSA)

Job Safety Analysis is an important tool that is used to identify hazards and risks before a job is performed and before they can result in injuries or damage. The aim is to eliminate them or put controls in place to minimize them. Jobs are broken down in to a series of steps or tasks. The hazards, risks, and controls associated with each task are then identified. The JSA is used to provide input into the preparation of:

- Standard Operating Procedures(SOPs);
- Maintenance procedures;
- Method statements;
- Work permits;
- Tool box talks;
- Training materials for new employees;
- Refresher training for established employees.

Applicability:

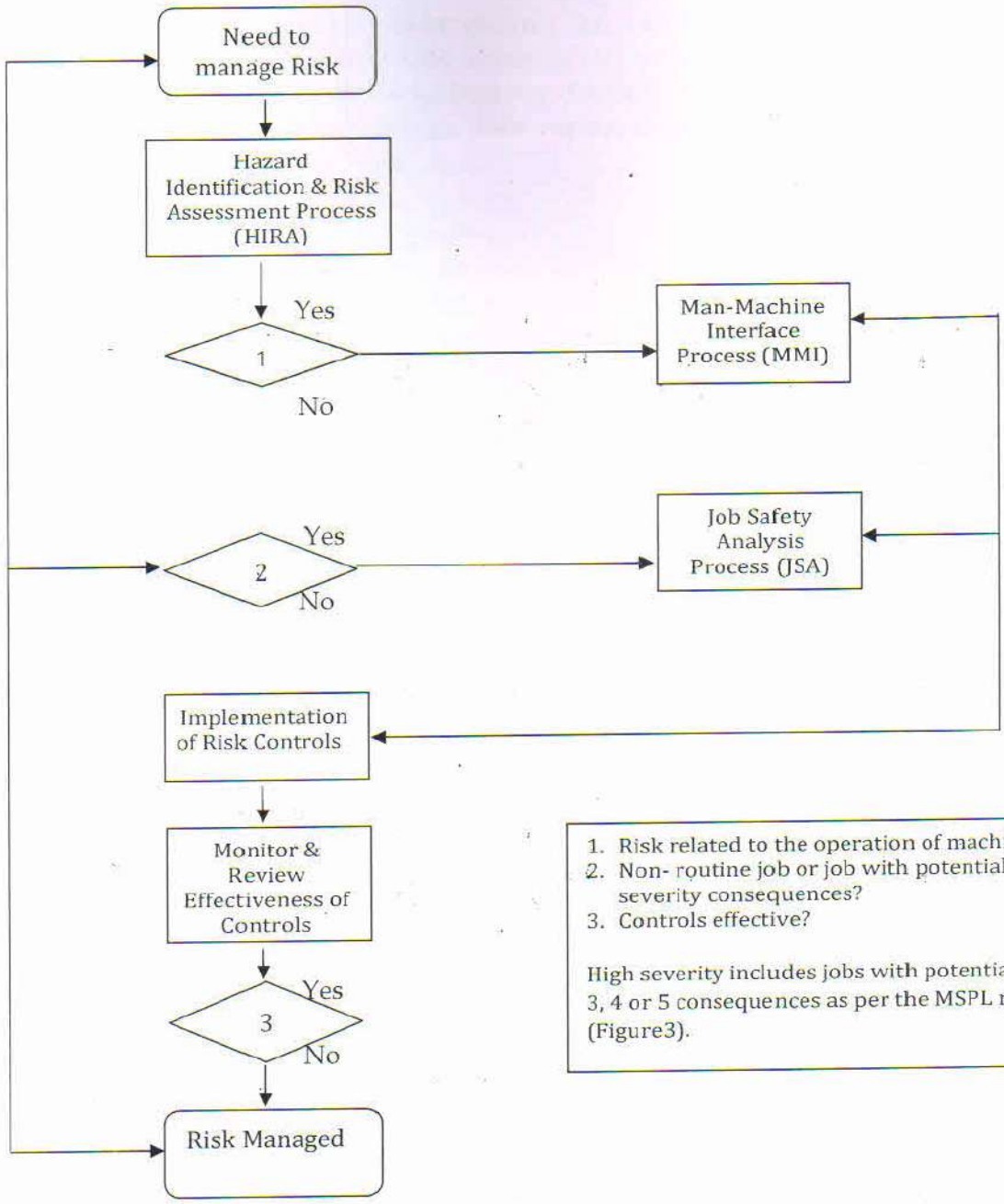
A JSA shall be carried out:

1. For non-routine jobs that are not covered in HIRA.
2. For any job requiring vessel entry;
3. For jobs with potential severity 3, 4 or 5 consequences as per the MSPL risk matrix;
4. Where there has been a history of previous incidents or injuries.
5. For all contractor activities.

The tasks are listed in the worksheet and then the analysis proceeds task by task until all the tasks have been considered. Following review and discussion by the team the following information is added to the worksheet for each task:

- The potential safety issue, hazard or risk;
- The potential causes that could lead to the realization of the hazard or risk;
- The potential severity of the consequences as per the MSPL risk matrix;
- The controls that need to be implemented;
- The party is responsible for implementing the controls.

Overall Risk Management Process



1. Risk related to the operation of machinery?
2. Non- routine job or job with potential for high severity consequences?
3. Controls effective?

High severity includes jobs with potential severity 3, 4 or 5 consequences as per the MSPL risk matrix (Figure3).

ecklist of Potential Hazards:

Safety Hazards	• Slipping and tripping hazards (e.g., poorly maintained floors) • Moving parts of machinery (e.g., belts, flywheels, pinch points) • Working at height (e.g., on roofs, from elevated platforms) • Pressurized systems(e.g., vessels) • Vehicles(e.g., Backhoe, loaders, trailers, cranes) • Electricity(e.g., poor wiring, worn cords) • Suspended loads • Inadequate lighting • Confined spaces
Occupational Health Hazards	• Noise Exposure (e.g., hand-held tools, compressors, engines) • Respiratory Exposure(e.g., dust, fumes, mists, vapors) • Ergonomics (e.g., repetition, forceful exertions, awkward postures, vibration, lifting and handling loads) • Ionizing radiation (e.g., x-rays, radioactive materials) • Extreme temperatures • Biological Exposure (e.g., molds, bodily fluids, bacteria, viruses)
Chemical Hazards	• Inhalation • Skin Contact • Absorption • Injection • Ingestion
Fire Hazards	• Fire/Explosion • Hot Work (e.g., grinding, cutting, welding, etc.)
Weather Hazards	• Heat • Flood • Wind

Hierarchy of Controls:

Elimination	• Task elimination • Hazard elimination
Substitution	• Safer substances • Safer equipment • Safer work processes
Engineering Controls	• Guards • Barricades • Interlocks • Isolation • Automation • Redesign
Administrative Controls	• Standard operating procedures • Safe working practices • Training • Supervision • Warning signs and signals • Job rotation

PPE	• Safety glasses, goggles, visors • Gloves • Hardhats • Safety shoes, boots • Aluminized Jackets • Dust masks • Respirators • Ear protection • Safety harnesses
Emergency Response	• Escape routes • Rescue equipment • Firefighting equipment • Medical support • Emergency communications

Severity Rating

Severity	Description	Rating
Catastrophic	Numerous fatalities, irretrievable property damage and productivity	5
Fatal	Approximately one single fatality or major property damage if hazard is realized	4
Serious	Non-fatal injury, permanent disability	3
Minor	Disabling however permanent injury	2
Negligible	Minor abrasions, bruises, cut, first aid type injury	1

Likelihood rating

Likelihood	Description	Rating
Most Likely	The presumably result of the hazard/event being realized	5
Possible	Has a good probability of occurring and is not unusual	4
Conceivable	Might occur at some time in future	3
Remote	Has not been identified to occur after several years	2
Inconceivable	Is practically not possible and has never occurred	1

Risk Matrix

SEVRITY \ LIKELIHOOD	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Risk Rating

Risk	Description	Action
15 – 25	HIGH	A HIGH risk needs immediate action to manage the hazard as detailed within the hierarchy of control. Actions taken to be documented on the risk assessment form as well as date for completion.
5 - 12	MEDIUM	A MEDIUM risk needs a planned approach to manage the hazard and applies temporary measure if needed. Action to be documented on the risk assessment form as well as date of completion.
1 – 4	LOW	A LOW risk could also be considered as acceptable and any reduction might not be necessary. However, if risk can be resolved quickly and expeditiously, control measures got to be enforced and recorded.

Hazard Identification

The operation of DRI is the hazardous activities which may affect the workforce working within in the plant premises. Following hazard may occur for the proposed project:

i) Heat related hazards
ii) Hazard due to Dust emission
iii) Electrical hazard
iv) Explosion hazard
v) Accident due to fall of Machinery
vi) Operation of Equipment
vii) Movement of heavy vehicles, loading and unloading
viii) Noise related hazard

CLASSIFICATION OF MAJOR HAZARDOUS SUBSTANCES

Hazardous substances may be classified into three main classes' namely flammable substances, unstable substances and toxic substances. The ratings for a large number of chemicals based on flammability, reactivity and toxicity have been given in NFPA Codes 49 and 345 M. The major hazardous materials to be stored, transported, handled and utilized within the facility have been summarized in the Table.

CATEGORY-WISE SCHEDULEOFSTORAGE

Materials	Hazardous Properties
HSD	U 1202. Dangerous Goods Class 3 - Flammable Liquid

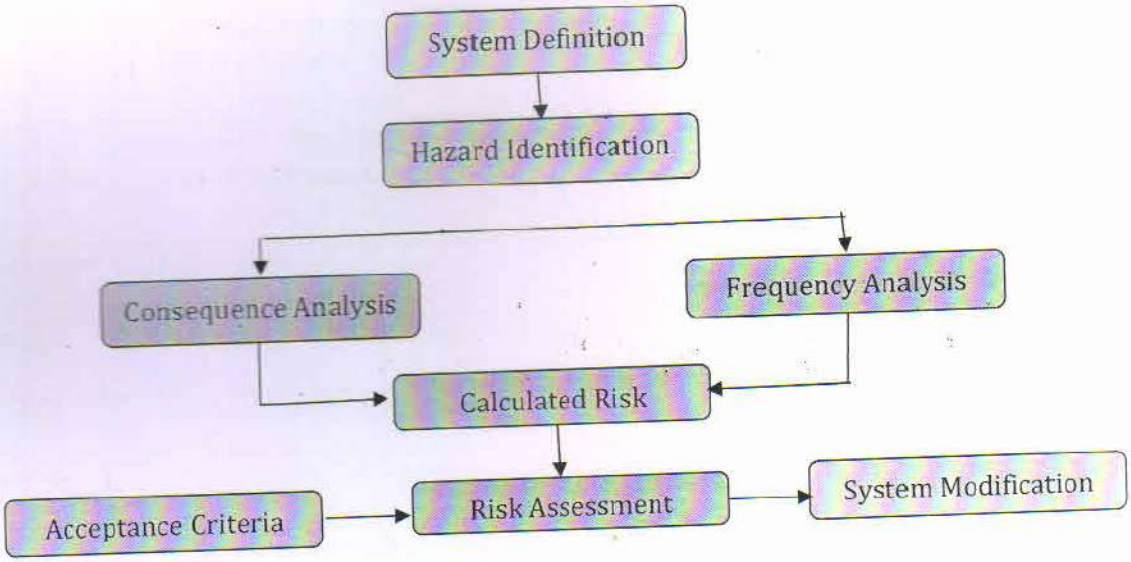
PROPERTIES OFFUELSUSEDINTHEPLANT

Chemical	Codes/Label	TLV	FBP	MP	FP	UEL	LEL
			0C			%	
HSD	Flammable	-	371	-	54.4	6	0.7

TLV: Threshold Limit Value
FP: Flashpoint
FBP: Final Boiling Point
UEL: Upper Explosive Limit
MP: Melting Point
LEL: Lower Explosive Limit

HAZARD ASSESSMENT AND EVALUATION

An assessment of the conceptual design is done for the identification and examination of hazards related to feed stock materials, major process components, utility and support systems, environmental factors, proposed operations, facilities and safeguards.



Hazard Identification Methodology

Some quantities of greases, oils and lubricants are used and if spilled can easily become a slipping hazard on walking or working surfaces.

Sharp engines or burrs on steel products or metal bands pose laceration and puncture hazards to workers involved in finishing, shipping and scrap-handling operations.

Foreign-body eye hazards are prevalent in most areas, particularly those involving raw material handling.

Preliminary Hazard Analysis (PHA)

A preliminary hazard analysis is carried out initially to identify the major hazards associated with storages and the processes of the plant which is followed by consequence analysis to quantify these hazards. Finally, the vulnerable zones are plotted for which risk reducing measures are deduced and implemented. Preliminary hazard analysis for fuel storage area and whole plant is given in the below table.

PRELIMINARY HAZARD ANALYSIS FOR STORAGE AREA

Unit	Description of Plausible Hazard	Impact
HSD	Pool fire/fire ball may occur due to rupture in the tank and subsequent release and instantaneous ignition.	Fire/Explosion

PRELIMINARY HAZARD ANALYSIS FOR THE WHOLE PLANT IN GENERAL

Unit / Activity	Description of Plausible Hazard	Impact
DRI	a. Moving Equipment Parts b. Smoke/ Dust c. Inhalable agents (gases, Vapours, dusts and fumes) d. Falls from height e. Extreme temperatures	Suffocation, Injury to worker & health problem, Burn/ injuries& Fatal

	f. Moving machinery, on-site transport(conveyor belt) g. Fire & Explosion h. Fire in stock yard i. Failures due to automation	
Transportation of material	a. High concentration of traffic during duty hours b. Heterogeneous traffic c. Violation of traffic rules/ speed limit d. Road Condition e. Condition of vehicle	Accident and fatal.
Storage and handling of HSD	Pool fire/ fire ball may occur in case of direct contact with flame.	Fire may propagate to the nearby areas leading into fire hazard.
Lifting operation with crane	Fall hazard	Injury, damage to equipment
Cutting	Fire, gas leakage, explosion, fall hazard	Burn injury, discomfort, chemical poisoning, physical injury
Welding	Fire, electrocution, fall hazard	Burn injury, electrical shock, physical injury

The Brief about nature of various Hazards in MSPL is given in Table.

PROPERTIES OF FUELS USED IN THE PLANT

Nature of Hazard	Sources
Fire Hazard	Release/leakage of Oxygen, Fire in HSD storage.
Explosion Hazard	Release/leakage of LPG Cylinders.
Toxic Hazard	Release of LPG Cylinders.
Cold Burns	Exposure to liquid oxygen and liquid argon.
Accidents due to Material Handling Equipment	Connected with all Material Handling Equipment

Fire Explosion and Toxicity Index (FE&TI) for Storage Unit

Dow's Fire and Explosion Index (F and E) is a product of Material Factor (MF) and hazard factor (F3) while MF represents the flammability and reactivity of the substances, the hazard factor (F3), is itself a product of General Process Hazards (GPH) and Special Process Hazards (SPH). The application of FE&TI helps to make a quick assessment of the type and quantification of the hazard. However, this does not give a precise idea.

The degree of hazard potential is identified based on the numerical value of F&EI as per the criteria given below:

F&EI Range	Degree of Hazard
0-60	Light
61-96	Moderate
97-127	Intermediate
128-158	Heavy
159-up	Severe

By comparing the indices F&EI and TI, the unit in question is classified into three categories established for the purpose as shown in Table.

FIRE EXPLOSION AND TOXICITY INDEX

Category	Fire and Explosion Index (F&EI)	Toxicity Index (TI)
I	F&EI < 65	TI < 6
II	65 < or = F&EI < 95	6 < or = TI < 10
III	F&EI > or = 95	TI >or = 10

Certain basic minimum preventive and protective measures are recommended for these three hazard categories.

Failure Mode Effect Analysis for Process Units

Failure mode effects analysis (FMEA) is one of the most important and widely used tools for reliability analysis. FMEA identifies corrective actions, which are required to reduce failures to assure the highest possible yield safety and reliability. Even though it is a widely used reliability technique, it has some limitations in prioritizing the failure modes and output may be large for even simple systems, which may not deal easily with time sequence, environmental and maintenance components. The risk management measures for the proposed project activities require adoption of the best safety practice at the respective construction zones within the project boundary. In addition, the design and engineering of the proposed facilities would take into consideration of the proposed project protection measures for the air and water environment.

FMEA Implementation: Failure mode effect analysis is executed by a multidisciplinary team of experts with the help of process flow chart. Criteria of ranking of severity, occurrence and detection are selected based on the past failure records of the furnace. Risk rating is calculated using values of severity and likelihood number and presented in Table.

RISK CALCULATION & PROPOSED MITIGATION MEASURE

Components/ Process	Failure Mode	Failure Effect	Failure Cause	Existing Control	S	L	R	Risk Range	Additional Control
Conveyor feed belt	Friction	Fire	Improper Maintenance	Belt Sway Switch	3	2	6	M	Lubricating the rotating parts regularly
Automatic lubricating system	Failed to Operate	Mechanical Failure	Improper Maintenance	Monitoring system	2	2	4	L	Periodic Maintenance
Double cone dust valves	Failed to Operate	Improper dust cleaning	Corrosion	Reliable Supplier	2	1	2	L	Periodic Maintenance
Moving Machinery, onsite transport	Mechanical	Conveying System &	Improper	Inspection	3	3	9	M	Periodic Maintenance & Mechanical

	Failure	Rotary Failure	Monitoring						Strength testing
Kiln	Presence of Oil & Grease and other impurities	Sudden catching of fires and flames	Improper Maintenance	Inspection	2	2	4	L	Periodic Maintenance
Transformer	Oil spillage &Overheating	Bursting	Excess connected load	Inspection	3	2	6	M	BDB testing of transformer oil and maintenance of bushing and Radiator.

The Hazard Identification and Risk Analysis (HIRA) along with mitigation measures for each hazard identified is shown in the below Table.

HAZARD IDENTIFICATION AND RISK ANALYSIS (HIRA)

Type of Hazard	Source	Risk related to Hazard	Mitigation measures
Heat	DRI	Burn/Heat stress	Use of helmet, heat resistant clothing, heat resistant gloves, Use of Goggles by the workers. Rotation of workers on shift basis.
Dust and Gaseous emission	DRI, Raw material and product storage yard, Transportation of raw material.	Pulmonary disease	Use of Nose Mask, Water sprinkling arrangement at requisite places, Operation of Bag filters and dust extraction system as required. Stack monitoring and work zone monitoring to ensure the gaseous emission and dust emission within the prescribed standard.
Electrical	Motors, Panels, Sub Station; Electrically operated equipment	Electrical shock and burn	Electrical area to be separated and assess given to authorized personnel. Spark proof motors used. Insulated cover provided in the electrical area. Proper earthing has been provided.
Accident related to fall of machinery	Moving machinery, rotary parts and on-site transport	Injury	Safety check of operation of equipment at regular intervals. Properly trained workers appointed to operate machineries, Workers
Storage & Handling of HSD	Leak, Spill, Fire explosion, Toxicity	Injury, Burn	PPEs provided to the personnel working in the area. Fire extinguishers provided
Noise &Vibration	D.G Set, raw material, scrap and product handling, rotating equipment.	Hearing loss/ Fatigue	Noise monitoring, Audiometric examination of workers, Workers provided with PPE like ear plug, muff isolation, substitution and engineering control installation of acoustical booth rotation of workers and minimize the time enclose fans, insulate ventilation pipes, cover and enclose scarp and storage.

Chemical Hazard	Chemical Lab	Poisoning, skin rashes and disorders of the lung, kidney and liver.	Regular maintenance of all connections and monitoring of the same. Strict supervision of all activities involving the use of hazardous substances is very important. Provision for on-site medical facility and first aid for medical emergencies before further treatment, like Medical support and ambulance Material Safety Data Sheets (MSDS) of all hazardous substances to be well distributed and displayed for awareness and knowledge in handling such substances SOPs for handling of chemicals. Mandatory use of personal protective equipment.
Mechanical/ Operational Hazard	DRI	slips, trips and falls on the same level; falls from height; unguarded machinery; falling objects; moving machinery, dusts and fumes); noise and vibration; manual handling and repetitive work; failures due to automation;	All installations will be safely designed, built, maintained, modified and operated. Integrated warning system including public address system to ensure working personnel are timely alerted before testing and after testing. Cranes and suspended loads to be grounded. Regular monitoring of site and coordinated supervision is very instrumental in eliminating all probable risks. Efficient control and IT teams deployed for overall monitoring and coordination through CCTVs and other technology Timely training to all workers and staff in their specific work areas. Mandatory use of personal protective equipment (PPE).

Safety Measures: The work place and surrounding area are need to kept clean and free from all obstructions. Solid waste, Hazardous waste like oily cotton, oily rags and empty barrels are properly stored away from any source of fire. Spill of oil and grease is immediately cleaned to reduce accidental fall.

Provision of PPEs: Personal protective equipment like heat resistant gloves, goggles, face masks, apron, Safety boots, helmets, Nose masks has been provided to the workers working in the hazard prone area.

Loading and transportation of Materials:

1. Overloading of the trucks is strictly prohibited and material is properly distributed and tied as far as possible.
2. Care to be taken by the drivers while moving back to avoid any accident.
3. The maximum speed limit of the heavy vehicle is<10 km/hr inside plant premises.

Operating Machineries:

I. Only the authorized person should operate the machine or equipment.
II. The repairing, cleaning and oiling of machineries will do when the machineries are not in use.
III. Before switching on electricity, gas, acid, air or gas this is ensured by the safety supervisor that no person should be injured nearby.
IV. All the exposed part of the moving machines like pulley, belt, chains, and rotating collars is properly guarded.
V. The machine guard and safety device is confirming the statutory provisions required for the machine.

Vehicular Traffic:

I. All vehicles will comply with all the traffic regulations within the plant and they will not exceed the safe speed limits i.e., 10 km/ hr.
II. Sitting on the side flaps or standing in a truck while in motion is strictly prohibited.
III. Overloading of the trucks is strictly prohibited.
IV. Overall, an integrated approach combining good engineering and maintenance practices, safe job procedures, worker training and use of personal protective equipment (PPE) is required to control hazards.

OBJECTIVES OF ON SITE EMERGENCY PLAN

The main objective of the plan is to take immediate action to meet any emergency situation for speedy and efficient rescue and relief operation. The main step in an onsite emergency plan is described below:

1. Cordon and isolate the affected area for smooth rescue operation.
2. Rescue and treat causalities and safeguards the rests.
3. Minimize damage to persons, property and surrounding.
4. Contain and ultimately bring the situation under control
5. Secure and safe rehabilitation of the affected area.
6. Provide necessary information to statutory agendas.
7. Provides authoritative information to the news media.
8. Ward off unsocial elements and prying onlookers.
9. Counter rumor mongering and panic by relevant accurate information.

EMERGENCY ORGANISATION

Responsibility will be automatically delegated in absence of concern person/s in following manner.

SITE CONTROLLER:	Manager/Shift In-charge
INCIDENT CONTROLLER:	HSE Dept., Security Dept.
ADVISORY COMMITTEE:	All HOD'S
COMMUNICATION COMMITTEE:	Administration/ IT Dept.

CODIFICATION OF SIRENS

SR. NO.	SIRENS	INDICATES	AUTHORITY
1.	30 SECOND CONTINUOUS	ON SITE EMERGENCY (ALERT)	INCIDENT CONTROLLER
2.	1 MINUTE CONTINOUS	EMERGENCY CONTROLLED (ALL CLEAR)	SITE CONTROLLER
3.	30 SECOND CONTINUOUS (3 TIMES)	DISASTER (ALERT)	INCIDENT CONTROLLER

KEY PERSONNEL & THEIR RESPONSIBILITIES

Key Personnel's Responsibility during normal working hours:-

1. Site Controller:

   He will retain overall responsibility for the factory and its personnel. As soon as he is informed of the

emergency, he shall proceed to the control room and meet the Administrative Manager. His duties shall be:

a. Assess the magnitude of the situation and decide if staff needs to be evacuated to their assembly points.
b. Exercise direct operational control over areas other than those affected.
c. Maintain a continuous review of possible development and assess in consultation with Incident Controller and other Key personnel as to whether shutting down of the plant or any section of the plant and evacuation of persons is required.
d. Control rehabilitation of affected areas on discontinuation of emergency.

2. Incident Controller:

On hearing of an emergency siren he will rush to the scene of the occurrence and take overall charge. On arrival he will assess the scale of emergency and decide if major emergency exists or is likely and inform the Communication Officer accordingly.

I. Direct all operations within the affected areas with the help of advisory committee for safety of personnel, plant, property and loss of materials.
a. Direct the shutting down and evacuation of plant and areas likely to be adversely affected by the emergency.
b. Ensure that all Key personnel and outside help are called in.
II. Provide advice and information to the Fire squad & Security Team and the local fire service as and when they arrive.
III. Ensure that all non-essential workers/staff of the areas affected are evacuated to the appropriate assembly points, and the areas are searched for casualties.
IV. In the event of failure of electric supply and internal telephones, set up communication point and establish contact with Emergency Control Centre.
V. Report on all significant developments to the Administrative manager.
VI. Have 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..

4. Security Officer:

On hearing alarm advice fire squad and security staff in the factory of the incident zone and cancel the alarm. He will also announce through telephone or messengers to the Admin Manager/Head, Incident Controller and Site Controller that incident has occurred in such and such zone. He will open the gates nearest to the incident and stand by to direct the emergency service.

If told of a large escape of Metal/Fire, he shall inform the Incident Controller by telephone and stand-by the telephone to receive further messages. On hearing the emergency alarm, he will immediately contact Site Controller and on his advice call the local fire brigade. In case fire is discovered but no

alarm is sounding he shall receive information about location from the person discovering the fire and thereafter immediately consult the Site Incident Controller and make announcement on telephone telling the staff location of the incident and to evacuate to their assembly points. He will continue to operate the switchboard advising the calls connected with the incident to the Communications Officer.

5. Departmental Heads:

The Departmental head wherein the incident has taken place will report to Incident Controller and provide assistance as required. They will decide which members of their staff they require at the scene.

He will also work as liaison Officer and will be stationed at the Main Entrance (Security Office near Main Gate) during the emergency. He will handle police, press and other inquiries, receive reports from roll-call leaders from assembly points and pass on the absentee information to the Incident Controller. His responsibilities shall include -

I. To ensure that casualties receive adequate attention, to arrange additional help if required and information relatives.

II. To control traffic movements into the factory and ensuring that alternative transport is available when need arises.

III. When emergency is prolonged, arrange for the relief of personnel and organise refreshments / catering facility.

IV. From information received, advise the Site Controller of the situation, recommending (if necessary) evacuation of staff from assembly points.

V. Recruit suitable staff to act as runners between the Incident Controller and himself if the telephone and other system of communication fail due to whatsoever reasons.

VI. Maintain prior agreed inventory in the control centre.

VII. In case of prolonged emergency involving risk to outside areas by wind-blown materials, contact local Meteorological Office to receive early notification of changes in weather conditions.

6. First-Aid Teams:

Members of first-aid Teams will report to the Incident Controller on hearing of the alarm in day time. The Emergency vehicle driver, if safe to do so, shall collect the emergency vehicle and park nearest to the scene of the incident. First aider shall inform the incident controller that the Emergency Vehicle is leaving the site, giving the name of the patient and destination i.e. hospital or doctor's room and request the Incident Controller to inform the destination (hospital, etc.) advising them about the casualties reaching there.

7. Factory Fire Squad Personnel:

The duty Fire fighting Squad under the command of the HSE Dept./Security Dept. shall be responsible for fire fighting. On hearing the alarm, they shall proceed to the place of incident. The men at security gate shall find out the location of the emergency and proceed to the site of the occurrence. At the site, all the squad members will respond to the advice and information given by the Incident Controller On arrival of the local fire brigade, they will also assist in fire-fighting work with the advice of the Incident Controller.

Annexure -21

(HEAT STRESS ANALYSIS)

MAITHAN STEEL & POWER LIMITED

Chittaranjan Road, P.O. & P.S.: Salanpur - 713357, Dist.-Paschim Bardhaman (WB)

Unit-2

Heat Stress Analysis Report

Date : 14.07.2025

SL NO.	NAME	Date of Birth (DD/MM/YYYY)	DESIGNATION	DEPARTMENT	SEX (M/F)	WEIGHT (Kgs.)	HEIGHT (Ft.)	Blood Group	Chest	Pulse Rate Before (BPM)	Pulse Rate After (BPM)	Raise in Pulse Rate	Body Temp .before in Work area	Body temp. After in Work Area	Rise in core body Temp	Blood Pressure Before (mm/hg)	Blood Pressure After (mm/hg)	Raise in blood pressure(mm/hg)	Respiration Time	SPO2 LEVEL (%)	Anemia	Result (Fit / Unfit)	Remarks
1	Raj Kumar Barnamal	01.02.1997	Jr. Engg.	CCM_1	M	71.9	5.6	B+	Clear	92	90	-2	94	94.5	0.5	116/76	120/78	4/2	14	98%	Nil	Fit	
2	Rju Kumar	15.01.1987	Turner	Workshop	M	55	5.3	B+	Clear	68	76	8	96.4	97	0.6	110/75	110/76	0/1	14	99%	Nil	Fit	
3	Ashis Kumar Koley	21.07.1999	Jr. Eng.	CCM_2	M	62	5.4	B+	Clear	98	94	-4	94.8	97.1	2.3	122/80	122/80	0/0	14	99%	Nil	Fit	
4	Prithwish Konai	29.204.1998	Asst.Eng.	CCM_2	M	42	5.1	O+	Clear	86	90	4	99.1	97.2	-1.9	116/76	118/78	2/2	14	98%	Nil	Fit	
5	Santi Dhara	12.10.1987	Supervisor	MIS	M	63	5.3	B+	Clear	86	94	8	97.6	98.4	0.8	120/80	120/80	0/0	14	96%	Nil	Fit	
6	Rintu Kumar Singh	14.01.1982	Shaperman	Workshop	M	74	5.8	AB-	Clear	101	90	-11	94.2	95.2	1	116/76	120/80	4/4	14	98%	Nil	Fit	
7	Binod Kumar	04.03.1992	CNC Operator	Workshop	M	73	5.7	O+	Clear	105	99	-6	94.8	96.8	2	116/76	118/78	2/2	14	96%	Nil	Fit	
8	Prasanta Gorai	19.01.2002	DET	CCM_1	M	68	5.7	B+	Clear	84	84	0	97.2	97.3	0.1	118/78	118/80	0/2	14	99%	Nil	Fit	
9	Saibal Chatterjee	23.07.1982	Sr. Fitter	CCM_2	M	62	5.8	O+	Clear	92	94	2	98.2	98.1	-0.1	124/82	124/80	0/-2	14	98%	Nil	Fit	
10	Patha Bayen	03.02.2000	Junior Engineer	SMS_1	M	64	5.55	O+	Clear	73	77	4	95.8	96.3	0.5	116/76	117/76	1/0	14	97%	Nil	Fit	
11	Vijay Shankar	15.10.1990	Fitter	SMS_1	M	70	5.5	AB+	Clear	87	93	6	97.3	99.3	2	118/78	120/81	2/3	14	98%	Nil	Fit	

Heat Stress Analysis Report

Date : 14.07.2025

0	Akhay Dutta	15.04.1996	AC Technician helper	Electrical	M	48	5.8		Clear	91	92	1	96.5	96.5	0	110/70	110/70	0/0	14	98%	Nil	Fit	Cont-Binod Ram.
1	Munna Bihari Yadav	15.09.1996	Pulpit Operator	Rolling Mill-1	M	60	5.9		Clear	74	80	6	94.2	97	2.8	115/75	120/80	5/5	14	98%	Nil	Fit	
2	Rohit Kumar	15.01.1989	Assistant Engineer	SMS_1	M	59	5.5	O+	Clear	68	70	2	96.8	97.1	0.3	120/80	118/78	-2/-2	14	97%	Nil	Fit	
3	Krishna Ram	18.12.1996	Electrician	Rolling Mill-1	M	43	5.2	O+	Clear	122	94	-28	94.8	95.8	1	100/60	106/65	6/5	14	97%	Nil	Fit	Low BP
4	Arnab Tiwary	03.04.1993	Junior Engineer	SMS_1	M	72	5.6	A+	Clear	82	88	6	95.8	99	3.2	118/78	120/78	2/0	14	98%	Nil	Fit	
5	Sanjay Kumar Jha	12.10.1974	Assistant Engineer	SMS_1	M	58	5.4	B+	Mild cough	83	90	7	96.2	98.6	2.4	116/78	118/78	2/0	16	97%	Nil	Fit	
6	Arup Mondal	15/3/1994	Junior Engineer	SMS_2	M	54	5.3	A+	Clear	84	87	3	95.4	96.8	1.4	116/76	118/78	2/2	14	98%	Nil	Fit	
7	Raj Kumar Bandri	31.03.1990	GET	Rolling Mill-2	M	75	5.7	O+	Clear	110	96	-14	93.8	95	1.2	120/80	120/80	0/0	14	98%	Nil	Fit	

Category	BP
Normal	120 / 80 or less
Modrate	121-139 / 81-
High	> =140 / 90

Category	BMI
Underweight	≤ 18.5
Normal Weight	18.5 - 24.9
Overweight	25 - 29.9
Obesity	≥ 30

Dr. M. P. PASWAN
GENERAL PHYSICIAN & SURGEON
DIABETES ADVISER
Regn. No.-30228 BMCR

Signature with date of the Factory Medical Officer / The Certifying Surgeon

Annexure -22

(ENVIRONMENT POLICY)

Annexure – 22

MAITHAN STEEL & POWER LIMITED

maithan® STEEL
NIRMAAN KA MAANDAND

Environmental Policy

The goal of M/s Maithan Steel & Power Plant is to apply the Environment Management System to it's operations based on preventive approach and to improve the system with it's mission, vision and values.

Our goal is the **'Protection of the Environment'** and the **'Efficient use of Natural Resources'** for the Sustainable Growth of Business.

We will strive to become a role model for the Steel Industry by going beyond compliance through:

- Identify, assess and manage our environment impact;
- Regularly monitor, review and report our environmental performance;
- Develop and rehabilitate abandoned sites through afforestation and landscaping;
- Enhance awareness, skill and competence of our employees and contractors to demonstrate their involvement, responsibility and accountability for sound environmental performance;
- Effective implementation of Environmental Management System to attain Zero Liquid Discharge;
- Proper Management of Wastes.

Rev No: 02

Date: 27th September 2022

Director

Registered Office:
9, A.J.C. Bose Road, Ideal Centre,
6th Floor, Kolkata - 700 017,
+91 33 4085 7200
CIN: U27102WB2001PLC093321

Works: Unit-I
P.O. Bonra, P.S.: Neturia - 723121,
Dist.: Purulia, (WB)

Works: Unit-II
Chittaranjan Road, Dendua More,
P.O. & P.S.: Salanpur - 713357,
Dist.: Paschim Bardhaman (WB)
8651540007

www.maithansteel.com

Annexure -23

(ADVERTISEMENT FOR EC GRANT)

Ei Samay
26/03/25

OTICE
client Mrinal Kumar
the original Deed of
e No. 00870/2017
at ADSR- Ranaghat-
was in his custody.
ged at P.S.- Ranaghat
D.E. No. 1402 dated
25. If anyone has any
n contacts me with
documents within 7
reafter no claim will
be accepted.
aranayan Chandra,
874412733

বিজ্ঞপ্তি

সকলকে জানানো যাচ্ছে যে, মাইথন স্টিল অ্যান্ড পাওয়ার লিমিটেড তাদের পশ্চিম বর্ধমান জেলার সালানপুর - এর নাকরাঝোরিয়া এলাকায় স্টিল কারখানার সম্প্রসারণের জন্য পরিবেশগত ছাড়পত্র (EC) পেয়েছে। এই অনুমোদন ভারত সরকারের পরিবেশ, বন ও জলবায়ু পরিবর্তন মন্ত্রক দ্বারা দেওয়া হয়েছে। এই সম্প্রসারণের মধ্যে থাকবে ১) স্টিল তৈরীর ইউনিট (Steel Melting Shop) ৩,৭৫,০০০ টন/বছর থেকে ৮,৮৯,০০০ টন/বছর পর্যন্ত বৃদ্ধি। ২) রোলিং মিল (Rolling Mill) ২,৯৭,০০০ টন/বছর থেকে ৮,৪০,০০০ টন/বছর পর্যন্ত বৃদ্ধি। ৩) ঠান্ডা প্রসেসিং ওয়ার্কশপ (Cold Drawing Workshop) ৩৩,০০০ টন/বছর থেকে ৭০,০০০ টন/বছর পর্যন্ত বৃদ্ধি। ৪) স্ল্যাগ ভাঙার ইউনিট (Slag Crushing Unit) ১,০৫,০০০ টন/বছর। ৫) রং ও সুরক্ষা আবরণের ওয়ার্কশপ (Protective Coating Workshop) ৬০,০০০ টন/বছর। এই সমগ্র সম্প্রসারণ পশ্চিম বর্ধমান জেলার সালানপুর - এর নাকরাঝোরিয়া এলাকায় মাইথন স্টিল অ্যান্ড পাওয়ার লিমিটেড কারখানার মধ্যে করা হবে। পরিবেশগত অনুমোদনের EC নম্বর EC23A1008WB5435864N, ফাইল নম্বর IA-J-11011/679/2008-IA-II(IND-I), অনুমোদনের তারিখ ২০শে মার্চ, ২০২৫। এই অনুমোদনের কপি SPCB/ নির্দিষ্ট কমিটিগুলিতে পাওয়া যাবে এবং মন্ত্রালয়ের ওয়েবসাইটে দেখা যেতে পারে সাথে https:/parivesh-.nic.in/ ওয়েবসাইটেও দেখা যেতে পারে এবং পশ্চিমবঙ্গ দূষণ নিয়ন্ত্রণ পর্ষদের কাছেও এর কপি পাঠানো হয়েছে।
তারিখ : ২১শে মার্চ, ২০২৫
মাইথন স্টিল অ্যান্ড পাওয়ার লিমিটেড - এর পক্ষ থেকে।

PUBLIC NOTICE

It is notified that Original Deed being no. 1257 for the year 1966 registered in the office of Sub Registrar Of Assurance, Calcutta relating to the property situated at Premises no. 22, Haralal Das Lane, P.S. Jorabagan, Kolkata, PIN: 700006 has been lost/misplaced from our client's (Sri. Mohit Mukherjee) custody during the course of his usual work for which a general dairy has been lodged on 21.03.2025 with Jorabagan Police Station vide GD Entry No. 1554 dated 21.03.2025.
Anybody having custody of the said deed or having any information thereof may kindly intimate the undersigned within 10 days from the date hereof after which no claim shall be entertained.
Dated: 25.03.2025 Yours faithfully,
For M/S. S.S. LEGAL SERVICES
Advocate
Regent House, 3rd floor
12, Govt Place East, Chamber-2&3
Kolkata-700069
Ph No.: 033-4822 2929
E-mail: sslegal.kol@gmail.com

This is to inform that my client 1)Jaspal Singh & 2)Surinderpal Singh,S/o Lt. Manmohan Singh, S/o Lt. Harnam Singh R/o - ward No.01,Mouza 232,P.O.Inda, Kharagpur,Dist.Paschim Medinipur (W.B).Manmohan Singh &Sohan Singh(Brothers) S/o-Lt. Harnam Singh are the executants of General Power of Attorney vide no.37of 29/06/1970 Sub Registrar office,Kharagpur& 2546 of 31/01/1985 Sub Registrar office Ludhiana (P.B).The holders of General Power of Attorney having Partition Deed No. 86 dated 09/01/1991 of Sub Registrar office Kharagpur. If any person having objection may contact within 15 days after publication of this notice. Otherwise no claim is entitled as per Law.................
Bibekananda Ghosh, Advocate
SD Court Kharagpur, M-8535871877

কোর্ট বিজ্ঞপ্তি

Deed No. 1945, for the year 2017 regd. at A.D.S.R. Serampore, for land measuring 5 Cottah at Mouza- Rishra, R.S. Dag No. 4404, R.S. Khatian No. 2908, L.R. Dag No. 13920, under Rishra Municipality, Ward No. 7, 13, Paras Singh Road, P.S.- Rishra, Hooghly is missing from my client Mira Singh, wife of Bharat Prasad Singh, of 13/A, Paras Singh Road, P.S.-Rishra, Hooghly and G.D. lodged before Rishra Police Station and affidavit before Judicial magistrate was executed. If anyone have any claim over the property or the deed or found the same inform the undersigned within 15 days otherwise it shall be declared the property is free from all encumbrances.
Koushik Chatterjee
Advocate
Room No. 510 & 511,
Delta House,
4 Govt. Place (N), Kol 1,
Mb : 9831097130

ব্যক্তিগত

নাম পরিবর্তন

AFFIDAVIT

আমি আদিত্য প্রসাদ চঁন্দ, পিতা চৈতন্য চঁন্দ. গ্রাম- রাধাকান্তপুর, পোঃ- কেঞ্জাকুড়া, থানা- বাঁকুড়া, জেলা- বাঁকুড়া, পিন- ৭২২১৩৯, পশ্চিমবঙ্গ, ভারত। জুডিশিয়াল মেজিস্ট্রেট ৪থ কোর্ট বাঁকুড়া Affidavit দ্বারা আদিত্য চঁন্দ নামে পরিচিত হলাম। Affidavit No- SL 976 Dated-13.03.2025 আদিত্য প্রসাদ চঁন্দ ও আদিত্য চঁন্দ একই ব্যাক্তি।

I, Annu Agarwal (old name) daughter of Gopal Chandra Agarwal and wife of Ankit Agarwal, presently residing at 134B, Beliaghata Main Road, Sunrise, Towers-2, Flat -5K, Kolkata-700015, West Bengal, have changed my name and shall henceforth be known as Shivangi Agarwal (new name) as declared before the Ld 1st Class Judicial Magistrate at Kolkata vide affidavit No. 425 dated 04/03/2025. Annu Agarwal (old name) and Shivangi Agarwal (new name) both are same & one identical person.

I, Prabir Kumar Chakraborty, S/o: Late Jatish Chakraborty, residing at Khagrabari, Coochbehar, West Bengal, PIN - 736179, have changed my name and shall henceforth be known as Prabir Chakraborty as declared before the Notary Public Barasat Judges Court, North 24 Parganas, vide affidavit no. 3112 Dated 21/03/2025. Prabir Kumar Chakraborty and Prabir Chakraborty both are same and identical person.

I, Halima Badsha Sayyed (Old Name), daughter of Late Badshah Gaus Sayyed, residing at Awho Bhaskar Roy Enclave, Phase-2, Block C-1, Flate 404, Rajarhat Gopalpur, North 24 Parganas, Pin-700136, West Bengal , Shall henceforth be known as Hinza Sayed (New Name) vide an Affidavit sworn before the Ld. Judicial Magistrate at Kolkata on 19/03/2025. That Halima Badsha Sayyed and Hinza Sayed both are the same and one Identical Person.

I, Lipika Mukhopadhyay (Old Name), Wife of Sumit Mukhopadhyay, Fl-2504, T-G, Avenida, Plot 2,G/7 Dorabji Tata Road, New Town, AA-2, Ps-Techno City, North 24 Parganas Pin-700160 , West Bengal , Shall henceforth be known as Lipika Das Mukhopadhyay (New Name) vide an Affidavit No 112 sworn before the Notary Public at Kolkata on 25/03/2025. That Lipika Mukhopadhyay and Lipika Das Mukhopadhyay both are the same and one Identical Person.

I, Lalita Prasad Jajodia (old name) son of Late Badri Prasad Jajodia, residing at B/4, Ashoka Park, Khamardih Road, Shankar Nagar, Raipur, Pin: 492007, Chhatisgarh, have changed my name and shall henceforth be known as Lalit Prasad Jajodia (new name) as declared before the Notary Public at Kolkata dated 24/03/2025. Lalita Prasad Jajodia (old name) and Lalit Prasad Jajodia (new name) both are same and one identical person.

I, Shadab Nasreen, daughter of late Sheikh Mohammed Sualehin born on 15.08.1962 residing at 06, Colootola Lane, Chittaranjan Avenue, Kolkata – 700073, have changed my name to Nasreen Barry vide affidavit dated 18.03.2025 at Calcutta.

I Jhulan Chatterjee (Old Name) W/O Ayan Chatterjee residing at Lalbaba Road, Dankuni,Hooghly-712311, West Bengal, have changed my name and shall henceforth be known as Jhulan Chatterjee Kanjilal (New Name) as declared before the 1st ClassLd. Judicial Magistrate at Alipore vide affidavit no 3908Dated 24/03/2025. Jhulan Chatterjee (Old Name) and Jhulan Chatterjee Kanjilal (New Name) both are same and one identical person.

I, Paresh Chandra Debnath (As Per Deed Old Name), Son of Late Gobinda Chandra Debnath, residing at 94/156, South Sibachal, Near Lahiri Kalibari, Po-Birati, North 24 Parganas Pin-700051 , West Bengal , Shall henceforth be known as Paresh Debnath (New Name) vide an Affidavit sworn before the Notary Public at Kolkata on 25/03/2025. That Paresh Chandra Debnath and Paresh Debnath both are the same and one Identical Person.

I, Atanu Ghosh son of Rabindranath Ghosh, aged about 42 years, by faith Hindu, by occupation Business, residing at 28/3, Nabalia Para Road, P.S- Hardevpur, Kolkata-700008, West Bengal, India. I lost my passport No. H0518965 issued on 18/09/2008 from RPO, Kolkata, lost at Behala Tram Depo under Behala P.S, G.D.E No. 1984 dated 21/03/2025. Before the Notary Public Alipore Kolkata on 24/03/2025.

I, Harjit Kaur (old name) D/o Sohan Singh and W/o Ishar Singh, residing at Om Enclave, Flat - 4B, 59/2, B. T. Road, Kolkata- 700002, West Bengal, have changed my name and shall henceforth be known as Harjeet Kaur (new name) as declared before the Notary Public at Kolkata dated 21/03/2025. Harjit Kaur (old name) and Harjeet Kaur (new name) both are same and one identical person.

I, Moly Ghosh wife of Atanu Ghosh and daughter of Nanda Dulal Das, by faith Hindu, residing at 28/3, Nabalia Para Road, P.S- Hardevpur, Kolkata-700008, West Bengal, India. I lost my passport No. N2862894 issued on 06/09/2015. from RPO, Kolkata, lost at Behala Tram Depo under Behala P.S, G.D.E No. 1985 dated 22/03/2025. Before the Notary Public Alipore Kolkata on 24/03/2025.

Annexure -24

(INTIMATION TO RELEVANT OFFICES FOR EC GRANT)

Dated: 24.03.2025

To,
The District Magistrate
Paschim Bardhaman
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I) dated 20th March 2025 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated **20th March 2025 vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I).**

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations
I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully

Kaushik Chakraborty
AGM Commercial
Maithan Steel & Power Limited
Salanpur, Paschim Bardhaman
West Bengal

OFFICE OF THE DISTRICT MAGISTRATE & COLLECTOR
RECEIVED
24 MAR 2025
CONTENTS NOT VERIFIED
PASCHIM BARDHAMAN

Encl: Environmental Clearance copy of MSPL, Salanpur.

MAITHAN STEEL & POWER LIMITED

maithan® STEEL
NIRMAAN KA MAANDAND

Dated: 24.03.2025

To,
The Sabhapati
Salanpur Panchayat Samiti
Paschim Bardhaman
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I) dated 20th March 2025 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 20th **March 2025 vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I).**

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations
I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully

Kaushik Chakraborty
AGM Commercial
Maithan Steel & Power Limited
Salanpur, Paschim Bardhaman
West Bengal

BLOCK DEV. OFFICE, SALANPUR
RECEIVED
24 MAR 2025
Without Verification
Docket No.: 930

Encl: Environmental Clearance copy of MSPL, Salanpur.

MAITHAN STEEL & POWER LIMITED

maithan STEEL
NIRMAAN KA MAANDAND

Dated: 24.03.2025

To,
The Block Development Officer (BDO)
Salanpur
Paschim Bardhaman
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I) dated 20th March 2025 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated **20th March 2025 vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I).**

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations
I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully

Kaushik Chakraborty
AGM Commercial
Maithan Steel & Power Limited
Salanpur, Paschim Bardhaman
West Bengal

BLOCK DEVELOPMENT OFFICER
RECEIVED
24 MAR 2025
Without Verification
Docket No.: 93
SALANPUR, PASCHIM BARDHAMAN

Encl: Environmental Clearance copy of MSPL, Salanpur.

Registered Office:
9, A.J.C Bose Road, Ideal Centre,
6th Floor, Kolkata-700 017
033-4849 8118

CIN: U27102WB2001PLC093321

Works: Unit-I
P.O. Bonra, P.S. : Neturia - 723121,
Dist.: Purulia, (WB)

www.maithansteel.com

Works: Unit-II
Chittaranjan Road, Dendua More,
P.O & P.S.: Salanpur - 713357,
Dist.: Paschim Bardhaman (WB)

8651540007

O/C

Dated: 24.03.2025

To,
The Sabhadhipati
Zilla Parishad Paschim Bardhaman
Paschim Bardhaman
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I) dated 20th March 2025 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist. – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated **20th March 2025 vide letter No: F. No. IA-J-11011/679/2008-IA-II(IND-I).**

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations
I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully

Kaushik Chakraborty
AGM Commercial
Maithan Steel & Power Limited
Salanpur, Paschim Bardhaman
West Bengal

ZILLA PARISHAD PASCHIM BARDHAMAN 25/3/25

Encl: Environmental Clearance copy of MSPL, Salanpur.

Annexure -25

(ENVIRONMENTAL STATEMENT)

MAITHAN STEEL & POWER LIMITED

maithan® STEEL
NIRMAAN KA MAANDAND

MSPL-2/WBPCB/ENV-Statement /2024-25 Date: 01.09.2025

To,
The Member Secretary
West Bengal Pollution Control Board
Paribesh Bhawan
10A, Block-LA, Sector – III
Bidhan Nagar, Kolkata - 7000106

Sub: - Environmental Statement (Form-V) of M/s Maithan Steel & Power Ltd. (Unit-II) for the financial year 2024-25.

Ref: - MSPL Unit-2 (OCMMS ID- WB0141979582), Consent letter No. C0134684 issued on dated 02.08.2023.

Dear Sir,

This has reference to the above subject, we are submitting herewith **Environmental Statement (Form-V)** for **Unit-II** of **M/s Maithan Steel & Power Ltd.** located at Village – Nakrajoria, PO & PS- Salanpur, District- Pachim Bardhaman (West Bengal) for the period **April - 2024 to March - 2025.**

Kindly acknowledge receipt for the same.

Thanking you.

Yours faithfully,
For **Maithan Steel & Power Ltd. (Unit-II)**

MAITHAN STEEL & POWER LTD. KOLKATA

Madhur Agarwalla
(Director)
Encls: As above

CC:

Regional Officer
Kalyanpur Satellite Township Project (KSTP),
Dr. B.C. Roy Road,
P.O.-Dakshin Dhadka, Asansol,
Dist-Paschim Bardhaman, PIN-713 302.

Form- V

{Rule14 of The Environment Protection Act, 1986}

Environmental Statement for the period April- 2024 to March-2025

Unit-II (OCMMS ID - WB0141979582)

Part-A

(i) Name and address of the owner/occupier of the industry operation and process

Mr. Mrityunjoy Chandra
Director

Registered Office Address:

M/s Maithan Steel & Power Ltd. (Unit-II)
9, AJC Bose Road, 6th Floor
Kolkata (W.B.)

Factory Address:

M/s Maithan Steel & Power Ltd. (Unit-II)
Village – Nakrajoria, Chittaranjan Road
PO & PS- Salanpur, District- Pachim Bardhaman (W.B.)

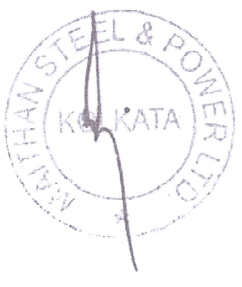
(ii) Industry category primary-: **Red**

(iii) **Production Capacity -**

Sr. No.	Name of Products	Capacity (TPA)
1.	MS Billet	3,75,000
2.	TMT Bar, MS Round , Wire Rod	2,97,000
3.	Cold Rolled products like Black wire nails, wire mesh, MS pipes	33,000

(iv) Year of Establishment: **2008**

(v) Date of last Environment statement submitted: 05.10.2024.



Part- B

Water and Raw Material consumption

(i) Water consumption: m^3/day

Process : ---

Cooling- **444.73 m^3/Day**

Domestic- **50 m^3/Day**

Name of Products	Process Water Consumption per unit of product output	
	During the Previous Financial year	During the current financial year
MS Billet	---	**0.24 KL/Ton**
TMT Bar, MS Round , Wire Rod		**0.19 KL/Ton**
Cold Rolled products like Black wire nails, wire mesh, MS pipes	---	---

** Process water includes make up water requirement to replenish evaporation losses, drift losses and blow down from cooling tower to maintain the efficiency of plant operation.*

(ii) Raw material consumption-

Sr. No	Name of Raw Materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year (2023-24)	During the current financial year (2024-25)
1	**Sponge Iron**	Billets	**0.891**	**0.875**
2	**Iron & Steel scrap**		**0.272**	**0.323**
3	**Si-Mn**		**0.004**	**0.015**
4	**Fe-Mn**		**0.0005**	**0.0003**
5	**Billets**	TMT Bar, MS round, Wire Rod	**1.012**	**1.243**
6	**Wire Rod**	Cold Rolled Products	**0.0083**	**1.02**

Month wise raw material consumption detail is enclosed as ***Annexure-I***

- Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.

MAITHAN STEEL & POWER LTD. KOLKATA

Part – C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollution	Quantity of pollutants discharge (Mass/Day)	Concentration of pollutants in discharges (Mass/Volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Our Plant is being operated on **'Zero Liquid Discharge' principle** since dry process technology has been adopted by the industry. Water is being utilized only for cooling purpose and make up water is added to maintain smooth operation of plant. However, waste water generated from Rolling mill is being utilized by recycle and reused in system after passing through settling tank & Media Filter. Only Domestic waste water of all plants including residential colony is treated in STP. Treated domestic wastewater is being reused in green belt development and dust suppression purposes. Monitoring Results of treated domestic waste water is enclosed as **Annexure IIA**.		**Results are well below the permissible limits.**

(b) Air	Monitoring Results of Ambient Air, Stack Emission, Noise Level is enclosed as ***Annexure-IIB, IIC & IID.***		**Monitoring results are well below the permissible limits granted under CTO.**	
Pollutants	**Source of Pollutants**	**Quantity of Pollutants discharged** (mass/day)	**Concentration of pollutants in** discharges (mg/Nm^3)	**% of variation from** permissible **limit**
PM	SMS-1 (04 X 15T IF)	22.93 Kg/day	25.0	-16.67 %
PM	SMS-2 (03 X 20T IF)	59.05 Kg/day	21.02	- 29.93%

**Calculation is based on average stack emission during the period 2024-25.*

Note : From the above table it is clearly depicted that pollution load is insignificant from various stationery source.

MAHAMAYA STEEL & POWER LTD. KOLKATA

Part – D

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From Process	Used Oil – 0.166 T Cotton Waste : Nil	Used Oil -1.0 T Cotton Waste : 0.1 T
(b) From Pollution Control Facilities	Not applicable	Not applicable

**Waste oil is disposed off through CHWTSDF / authorized recyclers.*

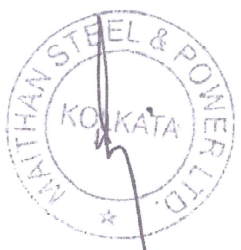
Part – E

Solid waste

Solid waste	Total Quantity	
	During the previous financial year	During the current financial Year (2024-25)
(a) From Process	43,830 T	IF Slag – 44,690 T Mill Scale – 2,969 T
(b) From Pollution Control Facilities (Flue Dust)	--	APCD Dust- 5000 T
(c) (1) Quantity recycled or re-utilized within the unit	IF slag at SMS plant – 742 T IF slag Internal land filling – 7808 T	IF slag – 792 T Mill Scale – 881 T APCD Dust- 4820 T (Reused at SMS Plant)
(2) Sold	--	IF slag - 17,583 T Mill Scale- 2407 T
(3) Disposed	35,280 MT	IF Slag – 21,305 MT (For land filling) Mill Scale - Nil

Note: Stock details as below:

Solid Waste	Opening stock as on 01.04.2024	Closing stock as on 31.03.2025
IF Slag	2981 T	5010 T
Mill Scale	809 T	490 T



From Process: -

- IF Slag generated from induction furnace is being used for land filling after recovering Valuable metal.

From pollution control: -

- Dust collected at bag filters of stack attached to Induction Furnaces is being used as raw material in SMS Plant.

Quantity recycled or reutilized within the unit

1. Reutilization of recovered metal from IF slag reduces the raw material consumption which results in natural resource conservation by the industry.
2. 100 % Flue dust collected from air pollution control device is being used in Induction Furnace at SMS Plant.

Part F

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

<table>
<tr><th>Type of Waste</th><th>Description</th></tr>
<tr><td>Solid Waste</td><td>We get dry dust from air pollution control system which is being used as raw material in induction furnace at SMS plant.</td></tr>
<tr><td>Hazardous Waste</td><td>
<table>
<tr><th>Sr. No.</th><th>Name of Hazardous Waste</th><th>Quantity per Annum</th><th>Disposal</th></tr>
<tr><td>1.</td><td>Used /Waste oil (Sch.I/ 5.1)</td><td>1.0 MT</td><td>Waste oil sent to CHWSTDF for the year 2024-25.</td></tr>
<tr><td>2.</td><td>Oily Cotton Waste (Sch.I/ 5.2)</td><td>0.10 MT</td><td>Sent to CHWSTDF for the year 2024-25.</td></tr>
</table>
</td></tr>
<tr><td>Bio-degradable waste</td><td>Bio-degradable solid wastes including Kitchen waste is composted and is used as manure/ bio-fertilizer in green belt development purposes.</td></tr>
</table>

STEEL & POWER LTD. KOLKATA

Part – G

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

1. **Natural Resource Conservation-** Reutilization of recovered metal from IF slag reduces the raw material consumption which results in natural resource conservation by the industry. Rest of the SMS slag is using for land filling.
2. **Water Conservation**: 100 % waste water generated from different units of plant from being Recycled through settling tank & media filter and re used in cooling purpose.
   Also, treated domestic waste water is being reused for gardening and dust suppression purpose.
   Thus, plant is operating on zero liquid discharge (ZLD) principle.
3. **Energy Saving:** Industry has installed roof top solar panel along with solar street lights inside the plant premises. As far as possible industry is using renewable energy instead of conventional power supply which in turn saves fossil fuel.

Part – H

Additional measures/ investment proposed for environment protection including abatement of pollution, prevention of pollution.

- Company has installed Continuous Online Emission Monitoring System (CEMS) for continuous measurement of particulate matter as per CPCB guidelines as a pollution control measures.
- The company started rainwater harvesting system along with shed catchment areas.

Part-I

Any other particulars for improving the quality of the environment.

- Maithan Steel & Power Ltd. is commited to improving the quality of life of the community. The company has a robust policy with emphasis on areas like livelihood initiatives, Education, Health, Infrastructure and Environment.
  The CER details are attached as ***Annexure-III***.
- The organization has established Sewage Treatment plant (capacity- 100 KLD) to treat domestic waste water and treated water is being recycled & reused in gardening as well as dust suppression on road.
- Differential Pressure gauge has been installed in bag filters to maintain pollutant level for better environment.
- Training programmes among employees on the topic related to safeguard of environment.
- Celebration of World Environment Day to cater mass awareness among employees and people about safeguard as well as sustainable environment.

- **The followings factors which are directly responsible to maintain pollution levels through continual improvements:**

    - All pollution control measures are being maintained periodically and carry out periodical performance monitoring of air pollution control devices.
    - Periodical environmental monitoring carried out for stack emission, ambient air quality and Noise level. Reports are submitted to Regional Office and Head Office of West Bengal Pollution Control Board (WBPCB). All results are within the norms prescribed by the West Bengal Pollution Control Board.
    - Certified with IMS (ISO 9001, ISO: 45001 & ISO 14001).
    - Green belt has been developed by covering ***6.23 ha*** area within plant premises and planted 13,927 nos. saplings. The detail of plantations is enclosed as **Annexure-IV**. Plantation is continuous process in our plant.
    - Regular housekeeping within plant premises to reduce fugitive emissions.
    - Beside the mechanical system regular water sprinkling is being carried out through water tanker on road / raw material yard area for minimizing fugitive emission.

****

(Authorized Signatory)

MAITHAN STEEL & POWER LTD KOLKATA

Name: **Madhur Agarwalla**
Designation: **Director**

Address: **Maithan Steel & Power Ltd.**
Village: Nakrajoria,
PO & PS - Salanpur
Dist.: Pachim Bardhaman
Pin - 713357

Annexure – 1

Raw Material Consumption Details

Period : 2024-25

Month	*Sponge Iron (TPM)	SiMn (TPM)	FeMn (TPM)	Pig Iron & MS Scrap (TPM)	Wire Rod (TPM)
Apr-24	28036.030	441.360	0.000	8453.710	697.000
May-24	27315.920	409.260	0.000	9932.310	688.400
Jun-24	26160.260	250.360	103.840	7873.600	705.900
Jul-24	26096.490	524.890	0.690	9695.600	531.800
Aug-24	23229.680	480.010	0.000	8495.480	760.400
Sep-24	24711.190	409.170	0.000	9186.530	464.300
Oct-24	22895.420	397.990	0.000	7944.350	616.500
Nov-24	25802.510	487.880	0.000	9443.600	475.300
Dec-24	27266.840	495.290	0.000	10058.390	671.800
Jan-25	29115.400	577.150	0.000	12636.710	746.500
Feb-25	28445.720	527.990	0.000	12744.660	703.500
Mar-25	33452.650	620.790	0.000	12666.350	952.900
Total	**322528.110**	**5622.140**	**104.530**	**119131.290**	**8014.300**

MAITHAN STEEL & POWER LTD. KOLKATA