

File No: MSPL –U1 /EC-Compliance / June'25

Dated: 29.05.2025

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 October '2024 to March'25 of M/s Maithan Steel & Power Limited (Unit –I) located at Vill-Bonra, Tehsil & PS- Neturia, Dist-Purulia, West Bengal.

Ref: EC File No: IA-J-11011-554/2017-IA. II (I) dated 20th November, 2023

Respected Sir / Madam (s),


This has reference to the above subject, we are hereby submitting the six monthly compliance reports for the period from **October'2024 to March'2025** of previous accorded Environment Clearance (EC) vide letter No: **IA-J-11011-554/2017-IA. II (I) dated 20th November, 2023** of **Unit-I of Maithan Steel & Power Ltd.** located at Vill-Bonra, Tehsil & PS- Neturia, Dist-Purulia, West Bengal in soft copy through mail as well as same shall be uploaded on Ministry's Parivesh Portal.

Hope you will find the same in order.

Thanking you

Yours faithfully

For, M/S Maithan Steel & Power Limited


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.
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MAITHAN STEEL & POWER LIMITED



**Six Monthly EC Compliance Report of
M/s Maithan Steel & Power Ltd. (Unit-I)
For the period of Oct'24 – Mar'25**

(MoEF & CC letter no. IA-J-11011/554/2017-IA-II (I) dated 20.11.2023)



Compliance Status of Environment Clearance No. IA-J-11011/554/2017-IA-II (I) dated 20.11.2023

of M/s Maithan Steel & Power Ltd. located at Vill - Bonra, P.S – Neturia, Dist- Purulia, West Bengal

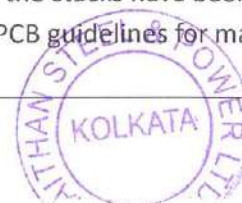
A.	Compliance Conditions	Compliance Status
Sl. No	Specific Conditions	
i	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted & Agreed.
ii	The 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 ESP & Bag Filters 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. iv. Installation of effluent treatment plant (ETP) etc.
iii	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted & will be Complied. The action plan to implement the Carbon Sequestration initiatives will be prepared and the implementation report will be submitted to the Ministry.
iv	Saontal Motha (~ 0.2 km, SSW), Dhangajor (~ 0.9 km, ENE), Goaladih (~0.9 km, West) and Bonra (~ 1.0 km, NW) and other sensitive areas falls 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. PP 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 measures like ESP, bag filters , scrubbers etc. 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 Bonra, Saontal Moutha. Monitoring results are well within the permissible limit. Monitoring Reports are enclosed as Annexure- 2 .



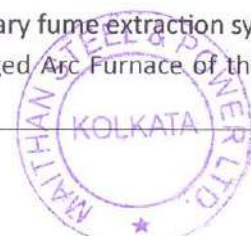
v	Machkanda Jora is at distance of 0.8 km in the East direction of the project site within the study area from the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	Noted for compliance.
vi	The water requirement of 2750 KLD shall be obtained from Damodar River only after obtaining necessary permission from the Competent Authority. No ground water abstraction is permitted.	Being Complied. We have obtained permission from DVC to fulfil Water requirement of the plant. We are not abstracting ground water. (Please refer Annexure- 3 for permission copy of DVC).
vii	Three tier Green Belt shall be developed in at least 33% of the project area as per the plan committed all along the project site 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 Saontal Motha (~ 0.2 km, SSW), Dhangajor (~ 0.9 km, ENE), Goaladih (~0.9 km, West) and Bonra (~ 1.0 km, NW) and other sensitive areas. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Being Complied. Green belt development is already continued inside the plant project premises and a dedicated team of workers is continuously engaged for planting trees and saplings. Out of existing land area of 13.78 ha area, 4.55 ha area to be developed as green belt. More than 3899 trees are planted inside and outside the plant premises within the 2021-22 financial year, 1651 saplings are planted in the year 2022-23 financial year, 966 nos. of saplings are planted in 2023-24 and 2932 nos. of saplings are planted for the financial year 2024-25. Therefore, total nos. of trees are 9448 in the green belt covering approx. 3.77 ha area. Further action plan regarding the green belt as per the EC directives will be prepared and the implementation report will be submitted to the concerned IRP office of the MoEF&CC. Thick plantation have been carried out all along the periphery of the industry which is being act as green barrier. (Please refer Annexure-1 for details of Plantation).
Viii	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. 2.17 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 committed to the Ministry will be adhered to. Please refer Annexure-4 for details of CER activities carried out.
ix	The PP shall undertake village adoption programme, prepare and implement the action plan to develop them into model villages.	Noted & will be complied. However, industry is engaged in socio-economic development of nearby villages at present and funds are being utilised in phase wise manner.
x	PP shall install digital display board at the plant gate.	Complied. (Please refer Annexure-5 for photograph)
xi	PP shall prepare a comprehensive housekeeping plan and implement on regular basis.	Being followed and will be complied too. A dedicated housekeeping team is engaged for proper housekeeping.
xii	PP shall provide PTFE Bag Filters in the existing as well as proposed expansion project. The Bag Filters in the	Noted and will be complied.



	existing 200 TPD DRI Plant (PTM type) shall be replaced with PTFE Bags within a year.	
B	General Conditions	
I	Statutory compliance	
i	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. 164590, Memo no. 658-2N-52/2018 (E) dated 08.10.2021. (Please refer Annexure-6).
II	Air quality monitoring and preservation	
	Conditions	
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 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-7 for OCEMS data). Besides this, quarterly monitoring of all stacks are done by third party monitoring agency having NABL accredited laboratory. (Please refer Annexure-8 for stack emission monitoring report). At present Ambient Air Quality is monitored at four locations (Inside location-01 & Outside plant location-04) by third party monitoring agency having NABL accredited laboratory. (Please refer Annexure-2 for AAQ report). CAAQMS is already procured and it is under construction phase.
ii	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.	Being Complied. The management of MSPL (Maithan Steel & B Power Limited) is monitoring criteria pollutants level namely- PM ₁₀ , PM _{2.5} , SO ₂ , NO _x (ambient levels as well as stack emissions of PM) by third party monitoring agency having NABL accredited laboratory and the same is displayed at main gate of the industry for disclosure to the public and also uploaded with compliance report on the website of the company.
iii	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.	Being Complied. (Please refer Annexure-9 for Fugitive Emission Report).
iv	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.



v	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.	<p>Being Complied.</p> <p>The industry has taken following steps to minimise ambient & fugitive emission level:</p> <ol style="list-style-type: none"> 1.Installed efficient APCM such as ESP, Bag Filter, scrubber at all dust generating points/ stack. 2.Engaged movable tractor tanker for water sprinkling at raw material yard / roads to control fugitive emission as well as vehicular emission. 3. All conveyer belts are covered. <p>Observed that stack emission results & Fugitive emission results are well within the limit. (Please refer Annexure- 2 & 9 for AAQ & Fugitive Emission Report).</p>
vi	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<p>Being Complied.</p> <p>From visual observation of stack emissions and differential pressure check in bag house, damage of bags is detected & damage bags are replaced taking shut down of cooler discharge, Raw Material Handling Plant, Intermediate Bin, Product House. In running condition bags are cleaned by pulse air jet using cleaning timer cycle.</p>
vii	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<p>Noted & to be complied.</p> <p>We are in process of engaging mechanical sweeping machine to clean plant roads, shop floors, roofs regularly.</p> <p>However, dedicated housekeeping team is engaged round the clock to maintain cleanliness inside the plant.</p>
viii	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.	<p>Being Complied.</p> <p>Truck transporting materials especially fine materials are / will be covered with tarpaulin and being/ will be made sure to prevent spillage proof.</p> <p>(Please refer photographs of covered transportation of Raw Material as Annexure-10).</p>
ix	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	<p>Being Complied</p> <p>For the current operational plant (2X100 & 01 X 350 TPD sponge iron plant, 20 MW CPP & 02 X 9 MVA SEAF) , APC dust is dumped in abandoned mine area and the dolochar that is generated are used in the AFBC of CPP for power generation.</p> <p>(Permission copy of ECL for dumping is enclosed as Annexure-11).</p>
x	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	<p>Complied.</p> <p>The primary and secondary fume extraction system is installed in the Submerged Arc Furnace of the Ferro Alloy Unit.</p>



		(Please refer photographs of fume extraction system as Annexure-12).
xi	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Agreed & will be complied. The wind shelter fence will be constructed at the raw material stock piles and will be completed within a stipulated time.
xii	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.
xiii	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Complied.
xiv	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 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.	Complied All required environmental protection measures such as green belt development all along plant boundary, pollution control equipments such as ESPs, Bag Filters, covered conveyers and dust suppression systems etc. are provided and operated duly ensuring environmental safeguard measures to minimise the 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.
xv	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	Complied. All APCM are cleaned & maintained properly. Bag filters are working efficiently. Hence, stack monitoring results are within the limit. (Please refer Annexure- 8 for stack monitoring).
xvi	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. Mobile Water mist system have been procured and now it is working properly. (Please refer photographs of water mist system as Annexure-13).
xvii	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.
xviii	Following additional arrangements to control fugitive dust shall be provided:	Being Complied. Industry has taken following pollution abatement measures:



	<p>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.</p> <p>b. Proper covered vehicle shall be used while transport of materials.</p> <p>c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.</p>	<p>1. Installed Fixed type water sprinklers at various transfer points & raw material yard. / water mist canon at raw material yard.</p> <p>2. Installed Dry fogging system at bag house area, hoppers etc.</p> <p>2. Installed water sprinkling system on conveyer belts.</p> <p>3. Movable water tanker is available round the clock for road dust suppression and reduce vehicular emission.</p> <p>b. Raw Materials are coming to the plants through fully covered trucks by tarpaulin.</p> <p>c. Noted for compliance.</p>
xix	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.	<p>Complied.</p> <p>Jigging Plant in Ferro Alloys unit already installed and in operation.</p> <p>(Please refer photographs of Jigging plant as Annexure-14).</p>
xx	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.	Being Complied and Jigging Plant is under operation
xix	The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.	Complied.
xxii	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.	Noted for compliance.
xxiii	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.	Noted for compliance.
xxiv	<p>The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.</p> <p>i. The industry should estimate the total dust emitted from the stacks in tonnes/month and submit this to IRO MoEFCC, once in six months.</p> <p>ii. The PP to install CO sensors with alarm system, at strategic locations inside the Plant.</p>	Noted for compliance.



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III	Water quality monitoring and preservation	
i	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 systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	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.
ii	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.	Being Complied. Ground water analysis is being carried out inside plant and nearby village area by third party having NABL accredited laboratory. Please refer Annexure-16 for ground water quality analysis report.
iii	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. (Please refer photographs in Annexure-17)
iv	Water meters shall be provided at the inlet to all unit processes in the plants.	Complied. Water meter has been installed at our inlet and the same practice will be continued for the future expansion project as well.
v	The project proponent shall make efforts to minimise water consumption in the 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, boiler blow down & DM plant regeneration water is again reused in DRI plant for cooling purpose and also for dust suppression. Water is recirculated in the system Hence, the industry is practicing cascade use of water in a systematic way.
vi	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. Operational process is dry. Waste water generated from Cooling tower blow down, boiler blow down & DM plant regeneration which is recycled & reused in DRI plant for cooling purpose and partially for dust suppression. Work is under progress to set up sewage treatment plant.
vii	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust	Complied. (Please refer Annexure-17 for photographs).



	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.	
viii	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Noted for compliance. (Please refer Annexure-18 showing harvesting structure in lay out).
ix	Air Cooled condensers shall be used in the captive power plant.	Noted
IV	Noise monitoring and prevention	
i	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. (Please refer Annexure-19 for noise monitoring results).
ii	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. Ambient noise level is well below the permissible limit. (Please refer Annexure-19).
iii	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.	Complied. (Please refer Annexure-19 for work zone noise monitoring result & Annexure-20 for heat stress analysis report).
V	Energy Conservation measures	
i	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. Solar panel installed at roof top for power generation and also solar street lights have been installed. (Please refer Annexure-21 for photographs).
ii	Provide LED lights in their offices and residential areas.	Complied.
iii	The project proponent shall provide waste heat recovery system on the DRI Kilns.	Complied. Industry has already established 12 MW Waste Heat Recovery based power plant. Total 24 MW to be generated after completion of expansion project.
iv	The dolochar generated shall be used for power generation.	Being followed
v	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	Not Applicable
vi	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.	Being followed
VI	Waste management	
i	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 (Please refer Annexure-22 for manifest copy).
ii	Kitchen waste shall be composted or converted to biogas for further use.	Being complied. Kitchen waste is composted and used as manure for plantation.



iii	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.	Being complied. Fly ash is being disposed to cement and brick manufacturers for further utilization.
iv	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.
v	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Being complied. E-Waste is disposed off through authorized recycler. There is no generation of E-Waste during last year.
vi	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.	a) Not Applicable b) Being complied c) Used refractories is being disposed off through refractory unit.
vii	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
viii	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	Not Applicable
ix	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Not Applicable
x	The ESP dust must be agglomerated before disposal in exhausted mines. The dust must be recycled inside the Plant, wherever possible	Being complied ESP dust is being dumped into abandoned open cast mines.
VII	Green Belt	
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme	Noted. To be complied in time bound manner.



	for reduction of the same including carbon sequestration by trees.	
ii	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.
iii	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.
VIII	Public hearing and Human health issues	
i	i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being complied. We have prepared On Site Emergency Preparedness Plan including HIRA. (Please refer Annexure-23).
ii	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-20).
iii	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.	Complied.
iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied. (Please refer Annexure-24 for OHS records).
IX	Environment Management	
i	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).



ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Being complied. (Please refer Annexure-25 for Environment Policy duly approved by the Board of Directors).
iii	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. A Separate Environment Management Cell has been formed to look after all environmental issues.
iv	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. Stack emission monitoring is being carried out periodically at present. All results are within permissible limit. We have planned for performance test of pollution control systems and assure that report shall be submitted to your good office.
X	Miscellaneous	
i	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. Already submitted.
ii	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. Already submitted.
iii	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.
iv	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 approved laboratory.
v	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Noted for compliance



[Handwritten signature]

vi	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 submitted to Ministry's website
vii	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 2023-24 submitted to the West Bengal Pollution Control Board vide letter no. MSPL1/ENV_Statement/2023-24.
viii	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.	Complied. Financial closure date is 20-10-2022; final approval of the project by the concerned authorities is 08.10.2021 & commencing the land development work is 12.01.2022. Expected commencement of production by 31.03.2026.
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Being complied in phase wise manner.
x	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.
xi	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.
xii	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).	Noted
xiii	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 & being complied.
xiv	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xv	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted



xvi	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.
xvii	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.	Noted



A handwritten signature in blue ink, appearing to be "en", written next to the stamp.

Maithan Steel & Power Limited Unit – I**PLANTATION FROM JUNE, 2024 – MARCH, 25**

SL.NO.	Plant Area	Name of Saplings	Total No. Saplings
1	CPP area , Ferro Area & DRI Plant area & Periphery Plantation	Arjun, karanj, Sirish, Jarul, Radhachura, Bokul, Mehogani, Seesam, Chattim, Neem, Ficus Benjamina, Bougainvillea, Arica Palm, China Palm, Phoenix Palm, Tecoma, Bakul, Neem, Foxtail palm, Kaner, Debdaru, Tagar etc.	9448



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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000112F

Report No. : GV/AR/24-25/621
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Ambient Air
Sampling Location : Near Plant Main Gate
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory

Sample Ref. ID : AS-022-2025(1)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to
26.02.2025
Date of Receiving : 26.02.2025
Analysis Started On : 27.02.2025
Analysis Completed On : 28.02.2025
Time of Sampling : 08:30 am to
08:30 am

Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.2
Average Relative Humidity (%) : 82.0
Barometric Pressure (mm of Hg) : 756.0
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	$\mu\text{g}/\text{m}^3$	74.32	100.0
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	38.33	60.0
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	8.77	80.0
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	35.19	80.0
05.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	BDL	1.0
06.	Concentration of Benzene	$\mu\text{g}/\text{m}^3$	BDL	5.0
07.	Concentration of NH ₃	$\mu\text{g}/\text{m}^3$	6.46	400.0
08.	Concentration of CO	mg/m^3	0.257	4.0
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0
10.	Concentration of As	ng/m^3	BDL	6.0
11.	Concentration of Ni	ng/m^3	BDL	20.0
12.	Concentration of Ozone as O ₃	$\mu\text{g}/\text{m}^3$	< 10.0	100.0

* BDL Stands for Below detectable Limit

S. Roy Chowdhury
Reviewed by

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
Authorised Signatory
For, GREEN VISION

- Notes: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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



TC-15288

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000128F

Report No. : GV/AR/24-25/633
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Ambient Air
Sampling Location : Murulia Village
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory

Sample Ref. ID : AS-023-2025(3)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 to
27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 09:40 am to
09:40 am

Sampling Method : CPCB, Emission Regulation (Part III)

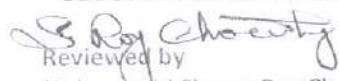
A. METROLOGICAL INFORMATION

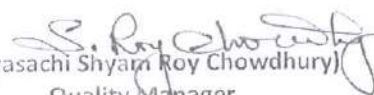
Average Temperature ($^{\circ}\text{C}$) : 33.5
Average Relative Humidity (%) : 80.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	61.51	100.0
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	32.49	60.0
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	7.02	80.0
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	34.53	80.0
05.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	BDL	1.0
06.	Concentration of Benzene	$\mu\text{g}/\text{m}^3$	BDL	5.0
07.	Concentration of NH ₃	$\mu\text{g}/\text{m}^3$	5.06	400.0
08.	Concentration of CO	mg/m^3	0.175	4.0
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0
10.	Concentration of As	ng/m^3	BDL	6.0
11.	Concentration of Ni	ng/m^3	BDL	20.0
12.	Concentration of Ozone as O ₃	$\mu\text{g}/\text{m}^3$	< 10.0	100.0

* 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



TC-15288

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000113F

Report No. : GV/AR/24-25/622
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Ambient Air
Sampling Location : Moutha Village
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory

Sample Ref ID : AS-022-2025(2)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to
26.02.2025
Date of Receiving : 26.02.2025
Analysis Started On : 27.02.2025
Analysis Completed On : 28.02.2025
Time of Sampling : 09:05 am to
09:05 am

Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 33.2
Average Relative Humidity (%) : 82.0
Barometric Pressure (mm of Hg) : 756.0
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	µg/m ³	66.87	100.0
02.	Concentration of PM _{2.5}	µg/m ³	34.58	60.0
03.	Concentration of SO ₂	µg/m ³	7.02	80.0
04.	Concentration of NO ₂	µg/m ³	35.19	80.0
05.	Concentration of Pb	µg/m ³	BDL	1.0
06.	Concentration of Benzene	µg/m ³	BDL	5.0
07.	Concentration of NH ₃	µg/m ³	4.81	400.0
08.	Concentration of CO	mg/m ³	0.167	4.0
09.	Concentration of Benzo(a)Pyrene	ng/m ³	BDL	5.0
10.	Concentration of As	ng/m ³	BDL	6.0
11.	Concentration of Ni	ng/m ³	BDL	20.0
12.	Concentration of Ozone as O ₃	µg/m ³	< 10.0	100.0

* BDL Stands for Below detectable Limit

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(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. : TC1528825000000127F

Report No : GV/AR/24-25/631

Sample Ref. ID : AS-023-2025(1)

Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)

Report Date : 10.03.2025

Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.

Date of Sampling : 26.02.2025 to
27.02.2025

Sample Description : Ambient Air

Date of Receiving : 27.02.2025

Sampling Location : Bonra Village

Analysis Started On : 28.02.2025

Sample Condition : In GMF Filter Paper & Plastic Bottle

Analysis Completed On : 01.03.2025

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 ($^{\circ}\text{C}$) : 33.5

Average Relative Humidity (%) : 80.0

Barometric Pressure (mm of Hg) : 756.0

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	$\mu\text{g}/\text{m}^3$	52.51	100.0
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	27.49	60.0
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	6.13	80.0
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	33.87	80.0
05.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	BDL	1.0
06.	Concentration of Benzene	$\mu\text{g}/\text{m}^3$	BDL	5.0
07.	Concentration of NH ₃	$\mu\text{g}/\text{m}^3$	4.72	400.0
08.	Concentration of CO	mg/m^3	0.204	4.0
09.	Concentration of Benzo(a)Pyrene	ng/m^3	BDL	5.0
10.	Concentration of As	ng/m^3	BDL	6.0
11.	Concentration of Ni	ng/m^3	BDL	20.0
12.	Concentration of Ozone as O ₃	$\mu\text{g}/\text{m}^3$	< 10.0	100.0

* BDL Stands for Below detectable Limit

S. Roy Chowdhury
Reviewed by

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

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



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-I)/2023/ 547-52

Date: 20.09.2024

To,

The Director
Maithan Steel & Power Limited
P.O.- Bonra, PS: Neturia
District-Purulia
West Bengal-723121

Sub:- Concurrence for drawl of additional 0.2089 MGD (enhancement from 0.396 MGD to 0.6049 MGD) raw water from River Damodar downstream of Panchet Reservoir regarding:

**Ref : (i) Your application No. MSPL-U2/22-23/68 dated 15.03.2023
(ii) WBIDC Letter No-WBIDC/DVRRCC/23-24/642 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 0.2089 MGD (enhancement from 0.396 MGD to 0.6049 MGD)** of raw water from Damodar River downstream of Panchet Reservoir for expansion of project Maithan Steel & Power Limited, Unit-I, Bonra P.S- Neturia, District-Purulia, 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 0.396 MGD was concurred vide this Office Letter No MD/DVRR/WA-6(Part-VIII)/MAITHAN STEEL & POWER LTD./2019/ 657-62 dated 08.03.2019. **The concurrence of DVRRC for allocation of additional 0.2089 MGD (enhancement from 0.396 MGD to 0.6049 MGD) of raw water is hereby conveyed** for drawl from River Damodar downstream of Panchet 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 0.2089 MGD (enhancement from 0.396 MGD to 0.6049 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 DVRRC during 148th DVRRC Meeting pertaining to allocation of water for M&I uses may be implemented.

एरिया 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♣

Corporate Environmental Responsibility (CER)

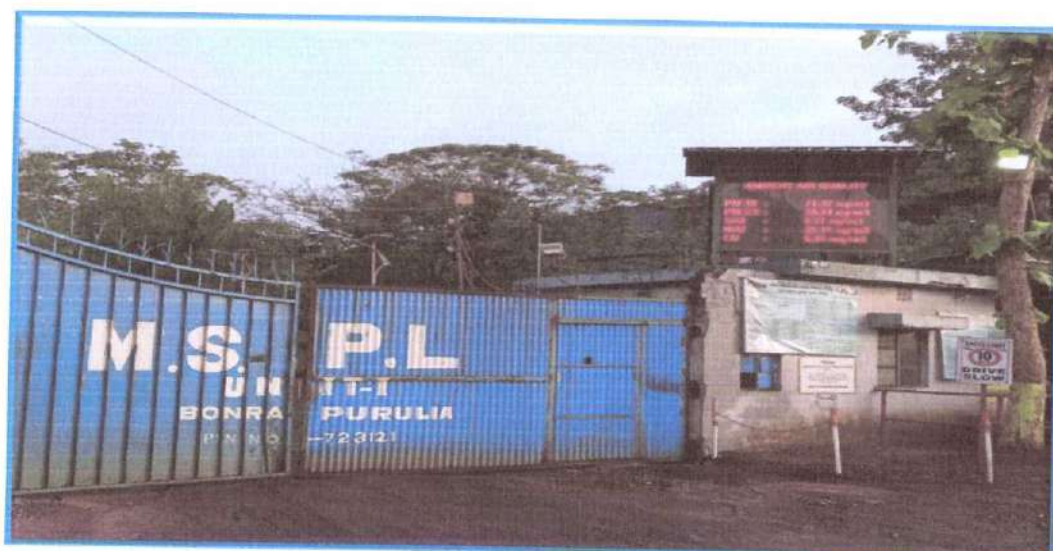
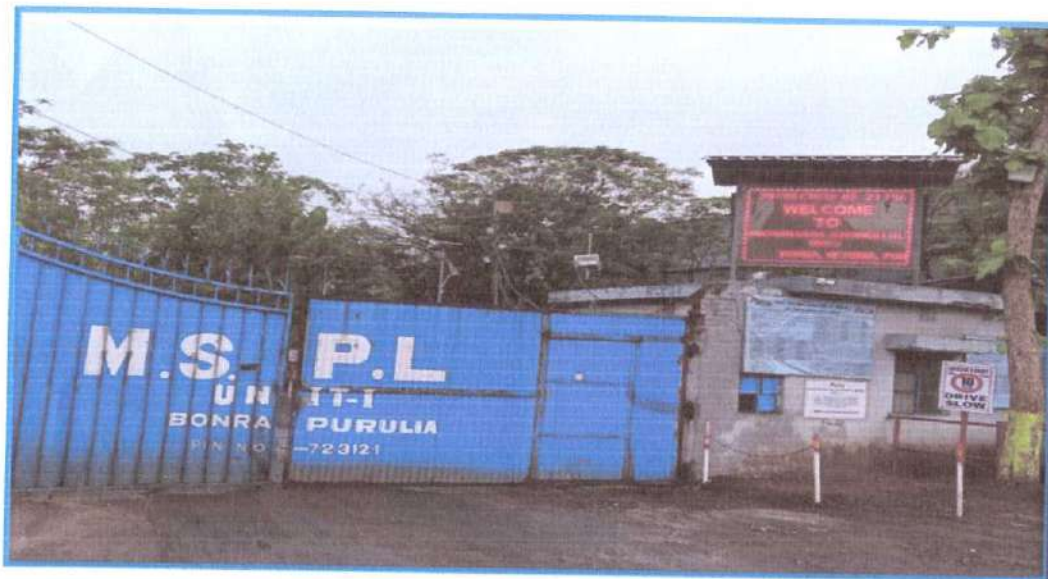
Public Consultation Action Plan as per MoEF&CC O.M dated 30.09.2020

Sl. No.	Concerns Raised During the Public Hearing	Physical Activity to be done	Budget in Lakhs			Total Budget (In Lakhs)
			1 st Year	2 nd Year	3 rd 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.	25.0	25.0	25.0	75.0
2	Water Conservation and Drainage system	Restoration of local ponds and construction of rainwater harvesting structures in the local community.	8.0	8.0	4.0	20.0
3	Solar Light Installation	Installation of Solar Light installation in local villages.	2.0	2.0	2.0	6.0
4	Infrastructure Development	Road Construction, Repair of school buildings, Village Road Repairing.	30.0	25.0	15.0	70.0
5	Avenue Plantation	Plantation of saplings along roads, highways, pathway and on the roads towards primary health centres and schools in the villages.	2.5	1.5	1.0	5.0
Budge as per PH issues to be spent mostly in the nearby villages like Bonra, Dhangajor, Goaladih etc			67.5	61.5	47.0	176.0
Budget as activities targeted under Model Village Development Programme (Saontal Motha)			23.00	11.50	8.50	43.0
Total Amount (Rs.)			90.50	73.00	53.5	217.0

Maithan Steel & Power Ltd.

(Unit -I)

Digital Display Board at Main Gate





LIFE
Lifestyle for
Environment

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 **525**-2N-70/2022(E)

Date **02.05.2025**

To

M/s. Maithan Steel and Power Ltd., Unit - I

9, AJC Bose Road, Shakespeare Sarani, Kolkata - 700017, West Bengal.

Sub: Your application for Consent to Establish (CTE) for proposed expansion of the existing 1,76,000 TPA Sponge Iron to 4,20,000 TPA, 30,000 TPA Ferro Alloys (Fe-Mn, Si-Mn, Fe-Si & Pig Iron combined) to 70,000 TPA and Captive Power Plant from 20 MW to 32 MW (WHRB-24 MW & AFBC -8 MW) along with existing iron ore Sinter Plant of 80,000 TPA & 2,40,000 TPA Iron Ore Washery Plant located at P.O. - Bonra, P.S. - Neturia, District - Purulia, Pin - 723121, West Bengal.

Ref: EC issued vide no. **EC23A1003WB5773006N**, dated **20/11/2023**

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. **6430532** having project cost of **Rs. 9500 (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 Gazette 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)

NOC NO 164590

SPRINT POST

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block - LA, Sector III, Bidhannagar
Kolkata - 700 103

Memo No. 658-2N-52/2018(E)

Dated 08/10/2021

From:
Member Secretary,
West Bengal Pollution Control Board

To: M/s. Maithan Steel & Power Limited,
9, A.J.C. Bose Road, Ideal Centre, 6th Floor, Kolkata-700 017.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: 1) Your letter No. MSPL-I/NOC-App/EIM-WBPCB/21-22/01 Dated 25.09.2021

ii) Environmental Clearance issued by MOEF&CC vide F.No. IA-J-11011/554/2017-IA.II(I) dtd. 26.07.2021.

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Maithan Steel & Power Limited expansion of the existing 0.064MTPA Sponge Iron to 0.17MTPA Sponge Iron, for 2X9MVA Arc Furnace for manufacturing of Ferro Alloys of 30,000TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron combined), Iron Ore Sinter Plant of 80,000TPA, 1X40TPH Iron Ore Washery of 2,06,000TPA and 20MW Power Plant (WHRB-12MW & AFBC-8M) * this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

* at P.O.-Bonra, P.S.-Neturia, Dist.- Purulia, West Bengal.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS: 2430 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

M. B. Ghosh
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

7. You shall comply with

- (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
- (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
- (iii) Environment (Protection) Act, 1986
- (iv) Environment (Protection) Rules, 1986
- (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
- (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
- (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
- (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
- (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
- (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
- (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
- (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable

8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :-

Total capital cost including land, building, plant & machinery is Rs.97 crores (Ninety Seven Crores only).

Please refer to Annexure - A & B.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

[Signature]
Member Secretary / SR, ENV. ENGR.
West Bengal Pollution Control Board (EIM CELL)
Sr. Environmental Engineer
Dated: W. B. Pollution Control Board
Dept. of Environment, GoWB

Memo No. 658 - 2N- 52/ 2018 (E) dt. 08/10/2021
Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, III/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./

Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan
Dellhi Road, Dankuni
Dist. Hooghly

Vill, Panpur
Kalyani Expressway
P.O. Narayanpur
Dist. 24 Pgs. (N)

Sahid Khudiram Sarani
City Centre, Durgapur-16
Dist. Burdwan

10, Camac Street
2nd Floor
Kolkata-700 017

Paribesh Bhawan
10A, LA-Block, Sector-III
Salt Lake City,
Kolkata - 700 098

Block-05 at 40
Flats Complex
Adjacent to Priyambada
Housing Estate
P.O. : Khanjanchak,
P.S. Durgachak
Haldia-727602
Dist. : Purba Medinipur

Panibahan Nagar
Matigara, Siliguri
Dist. Darjeeling

Satya Chowdhury
Indoor Stadium
Balurchar Bandh Road
Malda-732101

Asansol Sub-Regional Office
ADDA Commercial Market (2nd Floor)
Opposite Asansol Fire Station
G.T. Road, Asansol-713 301

[Signature]
Member Secretary / SR, ENV. ENGR.
West Bengal Pollution Control Board (EIM CELL)
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Annexure - A to NOC SL No. NO164590

The unit configuration and capacity of existing and proposed project is given below:

Sl. No	Name	Existing configuration	Proposed Configuration	Final configuration After expansion	Final Production Capacity (TPA)	Proposed Stack Height (m)	Proposed Emission Control System
1.	DRI Kilns	2x100 TPD	1x350 TPD	2x100 TPD 1x350 TPD	1,76,000 Sponge Iron	42 m	ESP
a)	DRI Kiln Cooler Discharge/Exit	--	1x350 TPD			30 m	Bag Filter
b)	Stock House	--	01 No.			30 m	Bag Filter
c)	Coal Crusher	--	01 No.			30 m	Bag Filter
d)	Intermediate Bin	--	01 No.			30 m	Bag Filter
e)	Product House	--	01 No.			30 m	Bag Filter
7.	CPP (WHRB based)	--	12MW	12 MW	12 MW	In line with DRI kiln 1 x 350 TPD	Common with ESP of DRI Kiln of 350 TPD
8.	CPP (AFBC based)	--	8 MW	8 MW	8 MW	30 m	ESP with Pneumatic Ash Conveying System
9.	Ash Silo	--	1 No.			Vent of 5 m from Silo Top	Bag Filter
10.	Ferro Alloy Plant		2 x 9 MVA	2 x 9 MVA	30,000 (Fe-Mn, Si-Mn, Fe-Si & Pig Iron combined)	30 m (Common)	02 nos. Bag Filter System & I.D Fan (Individual)

[Signature]
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Sl. No	Name	Existing configuration	Proposed Configuration	Final configuration After expansion	Final Production Capacity (TPA)	Proposed Stack Height (m)	Proposed Emission Control System
11.	Iron Ore Sinter Plant (Head)	--	250 TPD	250 TPD	80,000	30 m	ESP
	Iron Ore Sinter Plant (Tail)	--				30 m	ESP
12.	Iron Washery	--	1 x 40 TPH	1 x 40 TPH	2,06,000	--	--
13	D.G. Sets	--	03 x 600 KVA	03 x 600 KVA	03 x 600 KVA	13 m (individual)	Exhaust Muffler & Acoustic Enclosure

Dr. 08/10/2014
 Sr. Environmental Engineer
 W. B. Pollution Control Board
 Dept. of Environment, GoWB

Dr. 08/10/2014
 Sr. Environmental Engineer (EIM Cell)/Member Secretary
 West Bengal Pollution Control Board

Sr. Environmental Engineer
 W. B. Pollution Control Board
 Dept. of Environment, GoWB

Special Conditions issued to: M/s Maithan Steel & Power Limited at PO – Bonra, PS – Neturia, Dist - Purulia, West Bengal. (Expansion project)

I. Specific conditions

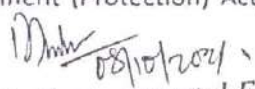
1. Particulate Matter emissions from all the stacks shall not be exceed 30mg/Nm³.
2. Water supply from Damodar Valley Corporation (DVC) shall be used and abstraction of ground water shall be discontinued.
3. Rain Water harvesting shall be implemented but no recharge to the ground aquifer is permitted.
4. Water spray systems shall be included to control fugitive dust from raw material stockpiles.
5. Green belt shall be developed in 33% of the total area all along the entire periphery of the plant with a density of 2500 trees per ha.
6. 100 % solid waste generated in the facility shall be utilized.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited labs.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986 or NABL accredited labs.
- iii. 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.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii. The project proponent shall provide primary and secondary fume extraction system for all melting furnaces.
- viii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

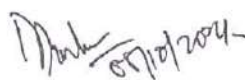
III. Water quality monitoring and preservation

- i. 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 systems from time to time according to equipment supplier specification through NABL recognised labs.
- ii. The project proponent shall monitor regularly ground water qual it) at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and, NABL accredited laboratories.


Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Special Conditions issued to: M/s Maithan Steel & Power Limited at PO – Bonra, PS – Neturia, Dist - Purulia, West Bengal. (Expansion project)

- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. 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.
- IV. **Noise, monitoring and prevention**
 - i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000.
- V. **Energy Conservation measures**
 - i. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc. to minimize the energy consumption.
- VI. **Waste management**
 - i. Used refractories shall be recycled as far as possible.
 - ii. Kitchen waste shall be composted or converted to biogas for further use.
- VII. **Green Belt**
 - i. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- VIII. **Emergency Preparedness**
 - i. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
 - ii. 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 of Factory Act.
 - iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.
- IX. **General :-**
 - 1) All conditions laid down in the Environmental Clearance obtained for the expansion project from MoEF&CC, GoI vide no. J-11011/554/2017-IA-II(I) dated 26.07.2021 must be strictly followed.
 - 2) Noise Control – Ambient noise & D. G. Set noise level not to exceed the permissible limit.
 - 3) No additional machinery / equipment can be installed without permission from this board.
 - 4) Adequate arrangement for dust suppression in raw material handling section to be provided.
 - 5) The conveyor belt for transferring materials to day bins & skip hoist to be covered.
 - 6) Good house-keeping to be maintained.
 - 7) All requisite permissions / compliance / certificates / licenses from the Competent Authority shall be obtained.
 - 8) Project proponent should not undertake any activity on any portion of land which is not under their possession.
 - 9) This NOC is valid up to 30.09.2028 for setting up the expansion project.



Sr. Environmental Engineer (EIM Cell)/Member Secretary
West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Central Pollution Control Board

Industry Dashboard / MAITHAN STEEL & POWER LIMITED

& POWER LIMITED (08WB409)

IRA PURULIA West Bengal PIN -



ved On SPCB Regional Office

Industry Representatives

Gurdeep Singh gha



SMS Communicated

0

(Last 7 Days)

Online Alerts

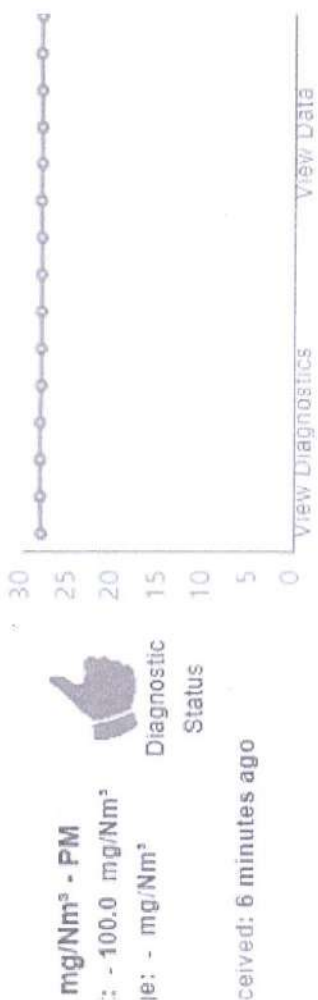
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No Data Found

CEMS	EQMS	Total Stations
2	0	2

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GREEN VISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC1528825000000108F	
Report No.	: GV/AR/24-25/625	Sample Ref. ID	: AS-022-2025(5)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Date of Sampling	: 25.02.2025
		Sample Received On	: 25.02.2025
Sample Description	: Stack Air	Analysis Started On	: 26.02.2025
Sampling Location	: Rotary Kiln	Analysis Completed On	: 26.02.2025
Sample Condition	: In GMF Thimble & Plastic Bottles	Time of Sampling	: 10:15 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant		
02. Stack connected to	: Common Stack of Rotary Kiln No. 1 & 2 Through W.H.R.B.		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L. (mtr)	: 33.0	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)	: 1.8		
08. Emission due to	: Reduction of Pellet & Oxidation of Coal		
09. Steam generation capacity:	(rated) : ---	(running) : ---	
10. Load of source:	(rated) : 100 TPD X 2	(running) : 100 TPD X 2	

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Coal		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: Kiln 1 : 4.3 TPH & Kiln 2 : 3.7 TPH		

C. RESULTS OF GASEOUS EMISSION SAMPLING

Test Method

01. Flue gas temperature ($^{\circ}\text{C}$)	118	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	9.30	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	61661.80	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	34.82	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 12% CO_2	42.64	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of SO_2 (mg/Nm^3)	225.64	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of NO_2 (mg/Nm^3)	109.26	IS:11255 (Part 3), 2008
09. Concentration of CO_2 (% V/V)	9.8	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

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.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.



GREEN VISION

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

U.L.R. No. : TC152882500000109F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/24-25/626
Name of the customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of the customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia.
Pin : 723121.
Nature of the sample : Stack Air
Sampling Location : Cooler Discharge
Sample Condition : In GMF Thimble
Sampling Method : CPCB, Emission Regulation (Part III)
Testing Location : At Laboratory

Sample Ref. ID : AS-022-2025(6)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025
Sample Received On : 25.02.2025
Analysis Started On : 26.02.2025
Analysis Completed On : 26.02.2025
Time of Sampling : 12:05 pm

A. GENERAL INFORMATION ABOUT STACK

01. Name of the plant : Integrated Steel Plant (Sponge Iron Unit)
02. Address of the plant : Cooler Discharge of Kiln No : 1 & 2
03. Nature of the production : M.S.
04. Shape of stack : Circular
05. Height of stack from G.L. (mtr) : 25.0 from roof level (mtr) : ---
06. Height of sampling from G.L. (mtr) : 15.0 from L.D.Z (mtr) : ---
07. Internal stack diameter at sampling point (mtr) : 0.5
08. Emission due to : Process Activity
09. Mean generation capacity : (rated) : --- (running) : ---
10. Actual generation : (rated) : --- (running) : 100 TPD X 2

B. PHYSICO-CHEMICAL CHARACTERISTIC REPORT

01. Total ash content : ---
02. Ash content (% by Wt) : ---
03. Sulphur content (% by Wt) : ---
04. Working fuel consumption : ---

C. RESULTS OF CASEUSE EMISSION SAMPLING

	Test Method
01. Flue gas temperature (°C)	42
02. Barometric pressure (mm of Hg)	756.0
03. Velocity of flue gas (m/sec)	14.30
04. Flowing of flue gas (Nm³/hr.)	9521.97
05. Concentration of Particulate Matter (mg/Nm³)	26.23
06. Particulate Matter normalized at 12% CO₂	---
07. Concentration of SO₂ (mg/Nm³)	---
08. Concentration of NO₂ (mg/Nm³)	---
09. Concentration of CO (% V/V)	---
10. Concentration of CO (% V/V)	0.2

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

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(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.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Return period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.
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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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

U.L.R. No. : TC1528825000000110F

Sample is drawn by M/s. Greenvision

Ref. No. : GV/AR/24-25/627
Client : M/s. Maithan Steel & Power Ltd. (Unit - B)
Address : Boara, P.S. : Neturia, Dist. : Purulia.
Pin : 723121.

Sample Ref. ID : AS-022-2025(7)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025
Sample Received On : 25.02.2025
Analysis Started On : 26.02.2025
Analysis Completed On : 26.02.2025
Time of Sampling : 02:05 pm

Sample Description : Stack Air
Sampling location : Rotary Kila
Sample Condition : In GMF Thimble & Plastic Bottles
Sampling Method : CPCB, Emission Regulation (Part III)
Testing Location : At Laboratory

A. GENERAL INFORMATION ABOUT STACK

01. Production Plant : Integrated Steel Plant (Sponge Iron Unit)
02. Stack : 350 TPD Rotary Kila Through WHRB
03. Material of construction : R.C.C.
04. Shape of stack : Circular
05. Height of stack from G.L. (mtr) : 55.0 from roof level (mtr) : ---
06. Height of sampling from G.L. (mtr) : 27.2 from L.D.Z. (mtr) : ---
07. Internal stack diameter at sampling point (mtr) : 3.84
08. Emission due to : Reduction of Iron & Oxidation of Coal
09. Stack gas capacity (rated) : --- (mtr/min) : ---
10. Stack gas capacity (rated) : 350 TPD (mtr/min) : 350 TPD

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used : Coal
02. Calorific value (K-Cal/Kg) : --- 03. Ash content (% by WT) : --- 04. Sulphur content (% by WT) : ---
05. Rated fuel consumption : ---
06. Working fuel consumption : 13.70 TPH

C. RESULTS OF GASEOUS EMISSION SAMPLING

Sl. No.	Parameter	Value	Test Method
01	Flue gas temperature (°C)	142	CPCB, Emission Regulation (Part III)
02	Exhaust gas flow rate (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03	Velocity of flue gas (m/sec)	5.76	CPCB, Emission Regulation (Part III)
04	Quantity of gas flow (Nm³/hr.)	160715.06	CPCB, Emission Regulation (Part III)
05	Concentration of Particulate Matter (mg/Nm³)	23.98	IS:11255 (Part 1), 1985, Reaffirmed 2014
06	Particulate Matter normalized at 12% CO₂	26.64	IS:11255 (Part 1), 1985, Reaffirmed 2014
07	Concentration of SO₂ (mg/Nm³)	322.38	IS:11255 (Part 2), 1985, Reaffirmed 2014
08	Concentration of SOₓ (mg/Nm³)	168.92	IS:11255 (Part 3), 2008
09	Concentration of CO₂ (% V/V)	10.8	IS:13770:1992, Reaffirmed 2014
10	Concentration of CO (% V/V)	0.2	IS:13770:1992, Reaffirmed 2014

Pollution Control device : ESP
Permanent Ladder and Platform : Yes

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC1528825000000111F	
Report No.	: GV/AR/24-25/628	Sample Ref. ID	: AS-022-2025(8)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Date of Sampling	: 25.02.2025
		Sample Received On	: 25.02.2025
Sample Description	: Stack Air	Analysis Started On	: 26.02.2025
Sampling Location	: Product House	Analysis Completed On	: 26.02.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 03:50 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (Sponge Iron Unit)		
02. Stack connected to	: Product House Of Kiln No : 1 & 2		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 24.38	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 7.62	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 0.6		
08. Emission due to	: Process Activity		
09. Steam generation capacity:	(rated) : ---	(running) :	---
10. Load of source:	(rated) : ---	(running) :	---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature (°C)	39	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	7.91	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow (Nm ³ /hr.)	7651.25	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/ Nm ³)	28.62	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 NO _x (mg/ Nm ³)	---	IS:11255 (Part 3), 2008
09. Concentration of CO ₂ (% V/V)	---	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

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

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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Page 1/1

End of the report.....

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TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC152882500000123F	
Report No.	: GV/AR/24-25/635	Sample Ref. ID	: AS-023-2025(5)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Date of Sampling	: 26.02.2025
		Sample Received On	: 26.02.2025
Sample Description	: Stack Air	Analysis Started On	: 27.02.2025
Sampling Location	: Sub Merged Electric Arc Furnace	Analysis Completed On	: 27.02.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 10:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (Ferro Alloy Unit)		
02. Stack connected to	: Common Stack of S.E.A.F. No. 1 & 2		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L. (mtr)	: 32.0	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)	: 2.5		
08. Emission due to	: Reduction of Mn Ore		
09. Steam generation capacity:	(rated) : ---	(running) :	---
10. Load of source:	(rated) : 9 MVA X 2	(running) :	9 MVA X 2

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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature (°C)	84	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	8.74	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow (Nm ³ /hr.)	128185.83	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm ³)	21.9	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 NO _x (mg/Nm ³)	---	IS:11255 (Part 3), 2008
09. Concentration of CO ₂ (% V/V)	2.8	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

Pollution Control Device	: F.D. Cooler & Bag Filter
Permanent Ladder and Platform	: Yes

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC1528825000000124F	
Report No.	: GV/AR/24-25/636	Sample Ref. ID	: AS-023-2025(6)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Date of Sampling	: 26.02.2025
Sample Description	: Stack Air	Sample Received On	: 26.02.2025
Sampling Location	: A.F.B.C. Boiler	Analysis Started On	: 27.02.2025
Sample Condition	: In GMF Thimble & Plastic Bottles	Analysis Completed On	: 27.02.2025
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 12:05 pm
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (Captive Power Plant)		
02. Stack connected to	: A.F.B.C. Boiler (30 TPH)		
03. Material of construction	: R.C.C.		
04. Shape of stack	: Circular		
05. Height of stack from G.L. (mtr)	: 56.0	from roof level (mtr)	: ---
06. Height of sampling from G.L. (mtr)	: 31.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.57		
08. Emission due to	: Combustion of Coal & Dolochar		
09. Steam generation capacity:	(rated) : 30 TPH	(running) :	30 TPH
10. Load of source:	(rated) : 7.5 MW	(running) :	7.5 MW

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Coal & Dolomhar		
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ($^{\circ}$ C)	124	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	14.73	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	72698.46	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	24.13	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 6% O_2	27.42	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of SO_2 (mg/Nm^3)	235.02	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of NO_x (mg/Nm^3)	114.78	IS:11255 (Part 3), 2008
09. Concentration of CO_2 (% V/V)	10.2	IS:13270:1992, Reaffirmed 2014
10. Concentration of O_2 (% V/V)	7.8	IS:13270:1992, Reaffirmed 2014
11. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC1528825000000125F	
Report No.:	GV/AR/24-25/637	Sample Ref. ID	AS-023-2025(7)
Name of Customer	M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	10.03.2025
Address of Customer	P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Date of Sampling	26.02.2025
		Sample Received On	26.02.2025
Sample Description	Stack Air	Analysis Started On	27.02.2025
Sampling Location	Cooler Discharge & Product House	Analysis Completed On	27.02.2025
Sample Condition	In GMF Thimble	Time of Sampling	02:10 pm
Sampling Method	CPCB, Emission Regulation (Part III)		
Testing Location	At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	Integrated Steel Plant (Sponge Iron Unit)		
02. Stack connected to	Cooler Discharge & Product House of 350 TPD Kiln		
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)	21.0	from L.D.Z (mtr)	---
07. Internal stack diameter at sampling point (mtr)	1.275		
08. Emission due to	Process Activities		
09. Steam generation capacity:	(rated) : ---	(running) :	---
10. Load of source:	(rated) : ---	(running) :	---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	:	---	
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ($^{\circ}$ C)	55	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	8.44	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow (Nm ³ /hr.)	35052.92	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/ Nm ³)	24.90	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 NO ₂ (mg/ Nm ³)	---	IS:11255 (Part 3), 2008
09. Concentration of CO ₂ (% V/V)	---	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014
Pollution Control Device	: Bag Filter	
Permanent Ladder and Platform	: Yes	

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC1528825000000125F	
Report No.	: GV/AR/24-25/638	Sample Ref. ID	: AS-023-2025(8)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,	Date of Sampling	: 26.02.2025
	Pin : 723121.	Sample Received On	: 26.02.2025
Sample Description	: Stack Air	Analysis Started On	: 27.02.2025
Sampling Location	: Intermediate Bin	Analysis Completed On	: 27.02.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 03:50 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (Sponge Iron Unit)		
02. Stack connected to	: Intermediate Bin & Coal Crusher of 350 TPD Kiln		
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)	: 21.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.275		
08. Emission due to	: Process Activities		
09. Steam generation capacity:	(rated) : ---	(running) : ---	
10. Load of source:	(rated) : ---	(running) : ---	

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ($^{\circ}\text{C}$)	41	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	7.91	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	34356.88	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	24.49	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 NO_x (mg/Nm^3)	---	IS:11255 (Part 3), 2008
09. Concentration of CO_x (% V/V)	---	IS:13270:1992, Reaffirmed 2014
10. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014

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

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
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TC-15288

TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC152882500000138F	
Report No.	: GV/AR/24-25/644	Sample Ref. ID	: AS-024-2025(4)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Report Date	: 10.03.2025
Address of Customer	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia.	Date of Sampling	: 27.02.2025
	Pin : 723121.	Sample Received On	: 27.02.2025
Sample Description	: Stack Air	Analysis Started On	: 28.02.2025
Sampling Location	: Intermediate Bin	Analysis Completed On	: 28.02.2025
Sample Condition	: In GMF Thimble	Time of Sampling	: 10:35 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (Sponge Iron Unit)		
02. Stack connected to	: Intermediate Bin of 100 TPD Kiln No. 1 & 2		
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)	: 0.6		
08. Emission due to	: Process Activity		
09. Steam generation capacity:	(rated) : ---	(running) : ---	
10. Load of source:	(rated) : ---	(running) : ---	

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ($^{\circ}\text{C}$)	38	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	7.84	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	7608.23	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	20.27	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 NO_2 (mg/Nm^3)	---	IS:11255 (Part 3), 2008
09. Concentration of CO_2 (% V/V)	---	IS:13270:1992, Reaffirmed 2014
10. 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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TC-15288

Urvashi Malhar, Phase II, MEAV-25, 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]

U.L.R. No. : TC152882500000139F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/24-25/645
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Stack Air
Sampling Location : Coal Crusher
Sample Condition : In GMF Thimble
Sampling Method : CPCB, Emission Regulation (Part III)
Testing Location : At Laboratory

Sample Ref. ID : AS-024-2025(5)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025
Sample Received On : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 28.02.2025
Time of Sampling : 12:30 pm

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant : Integrated Iron & Steel Plant
02. Stack connected to : Coal Crusher
03. Material of construction : M.S.
04. Shape of stack : Circular
05. Height of stack from G.L. (mtr) : 22.0 from roof level (mtr) : ---
06. Height of sampling from G.L. (mtr) : 12.0 from L.D.Z. (mtr) : ---
07. Internal stack diameter at sampling point (mtr) : 0.5
08. Emission due to : Process Activity
09. Steam generation capacity: (rated) : --- (running) : ---
10. Load on source: (rated) : --- (running) : ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used : ---
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 GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ($^{\circ}\text{C}$)	42	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	756.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	8.27	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	5504.22	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/Nm^3)	26.86	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 NO_x (mg/Nm^3)	---	IS:11255 (Part 3), 2008
09. Concentration of CO_2 (% V/V)	---	IS:13270:1992, Reaffirmed 2014
10. 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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4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.



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TEST REPORT OF FUGITIVE AIR ANALYSIS

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

U.L.R. No. : TC1528825000000114F

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/24-25/623
 Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
 Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
 Pin : 723121.
 Sample Description : Fugitive Air
 Sampling Location : In Between Kiln No. 1 & 2
 Sample Condition : In GMF Filter Paper & Plastic Bottle
 Location of Testing : At Laboratory
 Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-022-2025(3)
 Report Date : 10.03.2025
 Date of Sampling : 25.02.2025
 Date of Receiving : 25.02.2025
 Analysis Started On : 26.02.2025
 Analysis Completed On : 27.02.2025
 Time of Sampling : 10:05 am to
 06:05 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.5

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1104.02	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.77	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.82	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) TSPM - 2000, SO_2 - 80, NO_2 - 80

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

S. Roy Chowdhury
 Reviewed by
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager

S. Roy Chowdhury
 (Sabyasachi Shyam Roy Chowdhury)
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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. : TC1528825000000116F

Report No. : GV/AR/24-25/629
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Product House of Kiln No. 1 & 2
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-022-2025(9)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to
26.02.2025
Date of Receiving : 26.02.2025
Analysis Started On : 27.02.2025
Analysis Completed On : 28.02.2025
Time of Sampling : 06:30 pm to
02:30 am

A. METROLOGICAL INFORMATION

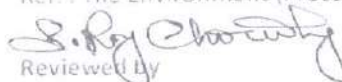
Average Temperature ($^{\circ}\text{C}$) : 33.5
Barometric Pressure (mm of Hg) : 756.0

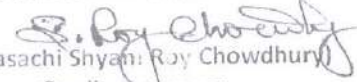
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	879.59	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.02	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	34.53	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(L), 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. : TC1528825000000115F

Report No. : GV/AR/24-25/624

Sample Ref. ID : AS-022-2025(4)

Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)

Report Date : 10.03.2025

Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.

Date of Sampling : 25.02.2025

Sample Description : Fugitive Air

Date of Receiving : 25.02.2025

Sampling Location : Near Cooler Discharge of Klin No. 1 & 2

Analysis Started On : 26.02.2025

Sample Condition : In GMF Filter Paper & Plastic Bottle

Analysis Completed On : 27.02.2025

Location of testing : At Laboratory

Time of sampling : 10:30 am to
06:30 pm

Sampling Method : CPCB, Emission Regulation (Part III)

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.5

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	739.66	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	6.13	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	34.53	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) TSPM - 2000, SO_2 - 80, NO_2 - 80

Ref.: The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(I) 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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TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000117F

Report No. : GV/AR/24-25/630
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Raw Material Handling Area
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-022-2025(10)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025
Date of Receiving : 25.02.2025
Analysis Started On : 26.02.2025
Analysis Completed On : 27.02.2025
Time of Sampling : 06:55 pm to
02:55 am

A. METEOROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.5
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	999.66	IS : 5182 (Part 4), 1999
02	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.9	IS : 5182 (Part 2), 2006
03	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	33.87	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) TSPM - 2000, SO_2 - 80, NO_2 - 80

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

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TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000142F

Report No. : GV/AR/24-25/643
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Near 350 TPD Klin No. 3
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-024-2025(3)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 10:30 am to
06:30 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.8

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1095.36	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.77	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.82	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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.

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Reviewed by
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Quality Manager

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(Sabyasachi Shyam Roy Chowdhury)
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TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000144F

Report No. : GV/AR/24-25/647
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Product Housing of 350 TPD Kiln
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-024-2025(7)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025 to
28.02.2025
Date of Receiving : 28.02.2025
Analysis Started On : 01.03.2025
Analysis Completed On : 03.03.2025
Time of Sampling : 06:30 pm to
02:30 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.8
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	924.65	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.02	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	34.53	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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.

S. Roy Chowdhury
Reviewed by
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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. : TC1528825000000143F

Report No. : GV/AR/24-25/646
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Near Cooler Discharge of 350 TPD Kiln
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-024-2025(6)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025 to
28.02.2025
Date of Receiving : 28.02.2025
Analysis Started On : 01.03.2025
Analysis Completed On : 03.03.2025
Time of Sampling : 05:50 pm to
01:50 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.8

Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	706.61	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	8.77	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.82	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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
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Quality Manager

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000141F

Report No. : GV/AR/24-25/642
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Raw Material Charging Area (Ferro Plant)
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-024-2025(2)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 09:50 am to
05:50 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.8

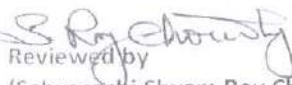
Barometric Pressure (mm of Hg) : 756.0

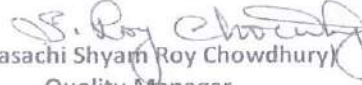
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1074.0	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.9	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	34.53	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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
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Quality Manager


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

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000140F

Report No. : GV/AR/24-25/641
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Near 9 MVA Furnace No-2 (Ferro Plant)
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-024-2025(1)
Report Date : 10.03.2025
Date of Sampling : 27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 09:20 pm to
05:20 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.8

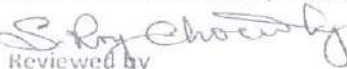
Barometric Pressure (mm of Hg) : 756.0

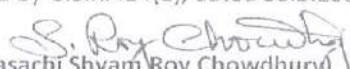
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	786.18	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	6.13	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	36.48	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000129F

Report No. : GV/AR/24-25/632
Name of Customer : M/s. Malhan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Boiler Area (Captive Power Plant)
Sample Condition : In GVF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Pollution Regulation (Part III)

Sample Ref. ID : AS-023-2025(2)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025
Date of Receiving : 26.02.2025
Analysis Started On : 27.02.2025
Analysis Completed On : 28.02.2025
Time of Sampling : 09:15 am to
05:15 pm

A. METEOROLOGICAL INFORMATION

Average Temperature (°C) : 33.5

Barometric Pressure (mm of Hg) : 760.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of SO ₂	µg/m ³	694.09	IS : 5182 (Part 4), 1999
02.	Concentration of NO ₂	µg/m ³	9.65	IS : 5182 (Part 2), 2006
03.	Concentration of TSP	µg/m ³	36.48	IS : 5182 (Part 6), 2006

Limit : (µg/m³) TSPM - 2000, SO₂ - 80, NO₂ - 80

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

S. Roy Chowdhury
Reviewed by

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-15288

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000130F

Report No. : GV/AR/24-25/634
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : C.H.P. Area (Captive Power Plant)
Sample Condition : In GME Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-023-2025(4)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 09:40 am to
05:40 pm

A. METEOROLOGICAL INFORMATION

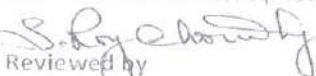
Average Temperature ($^{\circ}\text{C}$) : 33.8
Barometric Pressure (mm of Hg) : 756.0

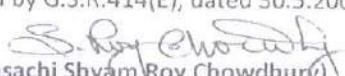
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1083.68	IS : 5182 (Part 4), 1999
02	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.9	IS : 5182 (Part 2), 2006
03	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.82	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000131F

Report No. : GV/AR/24-25/639
Name of Customer : M/s. Malhan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Near C.H.P.
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-023-2025(9)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 to
27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 05:50 pm to
01:50 am

A. METROLOGICAL INFORMATION

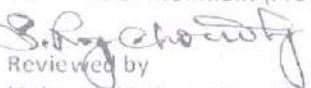
Average Temperature ($^{\circ}\text{C}$) : 33.8
Barometric Pressure (mm of Hg) : 756.0

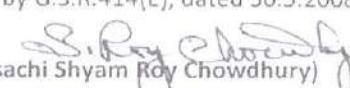
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	892.8	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.9	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.19	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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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Page 1/1

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

TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1528825000000132F

Report No. : GV/AR/24-25/640
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Fugitive Air
Sampling Location : Near 9 MVA Furnace No-1 (Ferro Plant)
Sample Condition : In GMF Filter Paper & Plastic Bottle
Location of Testing : At Laboratory
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-023-2025(10)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 to
27.02.2025
Date of Receiving : 27.02.2025
Analysis Started On : 28.02.2025
Analysis Completed On : 01.03.2025
Time of Sampling : 06:05 pm to
02:05 am

A. METROLOGICAL INFORMATION

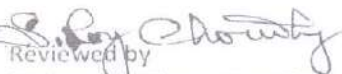
Average Temperature ($^{\circ}\text{C}$) : 33.8
Barometric Pressure (mm of Hg) : 756.0

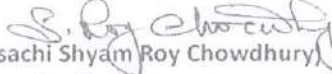
B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	574.13	IS : 5182 (Part 4), 1999
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	7.02	IS : 5182 (Part 2), 2006
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	35.82	IS : 5182 (Part 6), 2006

Limit : ($\mu\text{g}/\text{m}^3$) 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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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

Maithan Steel & Power Ltd.

(Unit-1)

Material Transportation by Trucks Covered byTarpaulin



MAITHAN STEEL & POWER LIMITED



Ref. No.: MSPLU-2/19-20/383

February 5, 2020

To,

The General Manager,

Eastern Coalfields Ltd.,

Sodepur Area, Sodepur.

Subject: Permission to dump rejected non-hazardous rejected Charcoal and ESP Dust in abandoned Mines of ECL under your jurisdiction.

Sir,

We would like to introduce ourselves as manufacturers of High quality Sponge Iron having our plant at Mouza & PO Bonra, Dist. Purulia.

Our plant discharges non-hazardous Charcoal and ESP dust from Sponge Iron division. These materials can be used for land filling and also filling of abandoned mines under your jurisdiction.

Hence, we request you to grant us permission to dump the above mentioned non-hazardous material namely, Charcoal and ESP dust in the abandoned mines of ECL under Sodepur Area.

The cost of transportation, heaping and other contingencies shall be borne by us.

We look forward to hear from you.

Thanking you in anticipation,

Yours faithfully,

For Maithan Steel & Power Ltd.

K. Agarwalla

(Director)

Registered Office
9, A.J.C. Bose Road,
Ideal Centre, 6th floor,
Kolkata -700 017

Works : Unit : I
P.O. Bonra, P.S. : Neturia -723121,
Dist. Purulia (W.B.)
Ph : +91 8651540007

Works : Unit : II
Chittaranjan Road
P.O. & P.S. : Salanpur - 713357
Dist. Paschim Bardhaman (W.B.)

05/02/2020
महाप्रबंधक का सचिवालय
Gm's Secretariat
सोदपुर क्षेत्र
SODEPUR AREA
दिनांक
Date



EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Limited)

Office of the Agent, Dhemomain Group

Sodepur Area

ECL/SDPA/AGENT/DMC/20/1748

Dated:- 10.02.2020

To,
K. Agarwalla,
Director,
Maithan Steel & Power Limited

**Sub:- Permission to dump rejected non-hazardous rejected Charcoal and
ESP Dust in abandoned Mines of ECL**

Dear Sir,

Kindly refer to your letter reference no. MSPLU/19-20/383 dated:- 05.02.2020. In this regard the undersigned would like to state that although we do not have any abandoned Open Cast Mines for dumping, we have, however, an illegal Open Cast quarry near Biched Bandh, Bada dighari Mouza which is urgently required to be filled up, to enhance the safety aspect of our underground workings lying just below the site.

You may very well avail the opportunity to fill up this illegal quarry, taking due care of all environmental aspects of the concerned area, Note that, the Mine Management shall not be responsible for any incident/accident or environment degradation occurring due to dumping of your above mentioned waste.

Yours sincerely

10.2.2020
Agent

Dhemomain Group
DHEMO MAIN COLLIERY

Copy:-

- 1) General Manager, Sodepur Area
- 2) Area Manager (PC&D), Sodepur Area
- 3) Area Survey Officer, Sodepur Area

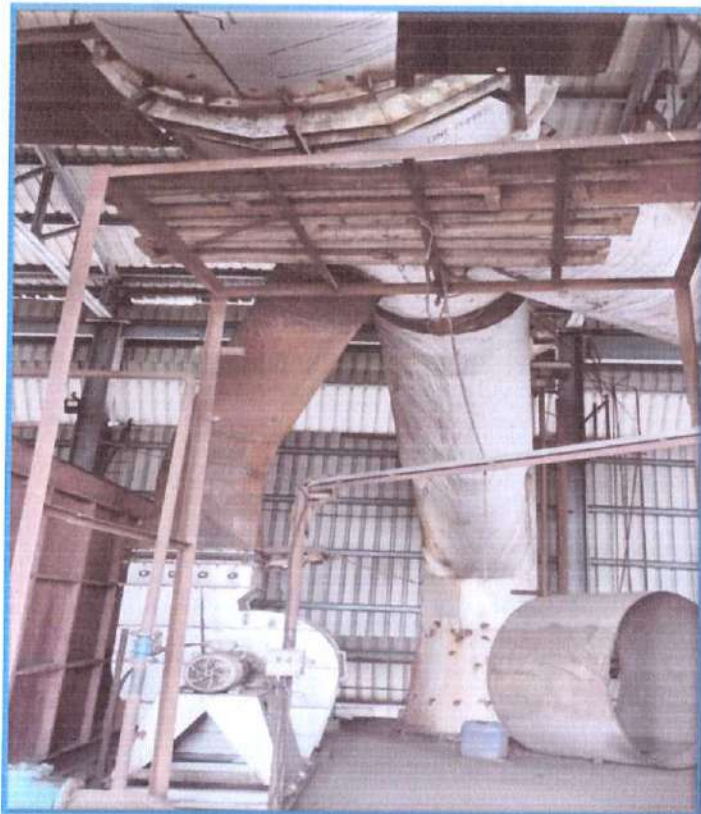
Maithan Steel & Power Ltd.

(Unit-I- Ferro Alloy Plant)

Primary Fume Extraction System at SEAF



Secondary Fume Extraction System at SEAF



Maithan Steel & Power Ltd.

(Unit-I)

Water Mist Canon



Maithan Steel & Power Ltd.

(Unit-1)

Jigging Plant





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



TC-15288

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.	: TC1528825000000136
Sample identification	: Nil	Laboratory Ref. No.	: GS-004-2025(2)
Report No.	: GV/GW/24-25/121	Report Date	: 10.03.2025
Issued To	: M/s. Maithan Steel & Power Ltd. (Unit - I)	Date of Sampling	: 26.02.2025
Address	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Sample Received on	: 26.02.2025
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Started on	: 27.02.2025
Sample Description	: Ground Water	Analysis Completed on	: 06.03.2025
Sampling Method	: APHA 24 th EDITION, 1060	Time of Sampling	: 12:10 pm
Location	: Tube Well at Moutha Village	Testing Location	: At Laboratory

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24 th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	8.62	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	682.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	494.0	500	2000	2540 C
8.	Total Hardness as CaCO ₃	mg/L	104.0	200	600	2340 C
9.	Chloride as Cl	mg/L	50.51	250	1000	4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	142.0	200	600	2320 B
11.	Sulfate as SO ₄	mg/L	45.18	200	400	4500 SO ₄ ²⁻ E
12.	Nitrate as NO ₃ ⁻	mg/L	3.6	45.0	No Relaxation	4500 NO ₃ ⁻
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD



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TC-15288

14.	Calcium as Ca	mg/L	31.26	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	6.32	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.18	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

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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Page 2/2

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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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TC-15288

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.	: TC1528825000000137
Sample identification	: Nil	Laboratory Ref. No.	: GS-004-2025(3)
Report No.	: GV/GW/24-25/122	Report Date	: 10.03.2025
Issued To	: M/s. Maithan Steel & Power Ltd. (Unit – I)	Date of Sampling	: 26.02.2025
Address	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Sample Received on	: 26.02.2025
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Started on	: 27.02.2025
Sample Description	: Ground Water	Analysis Completed on	: 06.03.2025
Sampling Method	: APHA 24 th EDITION, 1060	Time of Sampling	: 03:20 pm
Location	: Well at Bonra Village	Testing Location	: At Laboratory

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24 th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	8.28	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.	3.35	1	5	2130 B
6.	Conductivity	µS/cm	760.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	661.2	500	2000	2540 C
8.	Total Hardness as CaCO ₃	mg/L	180.0	200	600	2340 C
9.	Chloride as Cl	mg/L	47.6	250	1000	4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	210.0	200	600	2320 B
11.	Sulfate as SO ₄	mg/L	41.29	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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TC-15288

14.	Calcium as Ca	mg/L	46.49	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	15.55	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.2	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

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TC-15288

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.	: TC1528825000000121
Sample identification	: Nil	Laboratory Ref. No.	: DS-008-2025
Report No.	: GV/DW/24-25/119	Report Date	: 10.03.2025
Issued To	: M/s. Maithan Steel & Power Ltd. (Unit – I)	Date of Sampling	: 25.02.2025
Address	: P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121.	Sample Received on	: 25.02.2025
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Started on	: 26.02.2025
Sample Description	: Drinking Water	Analysis Completed on	: 05.03.2025
Sampling Method	: APHA 24 th EDITION, 1060	Time of Sampling	: 05:15 pm
Location	: Tap of Administrative Building	Testing Location	: At Laboratory

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24 th EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	7.07	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.	0.32	1	5	2130 B
6.	Conductivity	µS/cm	163.4	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	123.6	500	2000	2540 C
8.	Total Hardness as CaCO ₃	mg/L	34.0	200	600	2340 C
9.	Chloride as Cl	mg/L	3.89	250	1000	4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	76.0	200	600	2320 B
11.	Sulfate as SO ₄	mg/L	9.84	200	400	4500 SO ₄ ²⁻ E
12.	Nitrate as NO ₃ ⁻	mg/L	1.0	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	9.62	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	2.43	30	100	3500- Mg B
16.	Iron as Fe	mg/L	< 0.1	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

S. Roy Chowdhury
Reviewed by

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
Authorised Signatory
For, GREEN VISION

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Maithan Steel & Power Ltd.

(Unit-I)

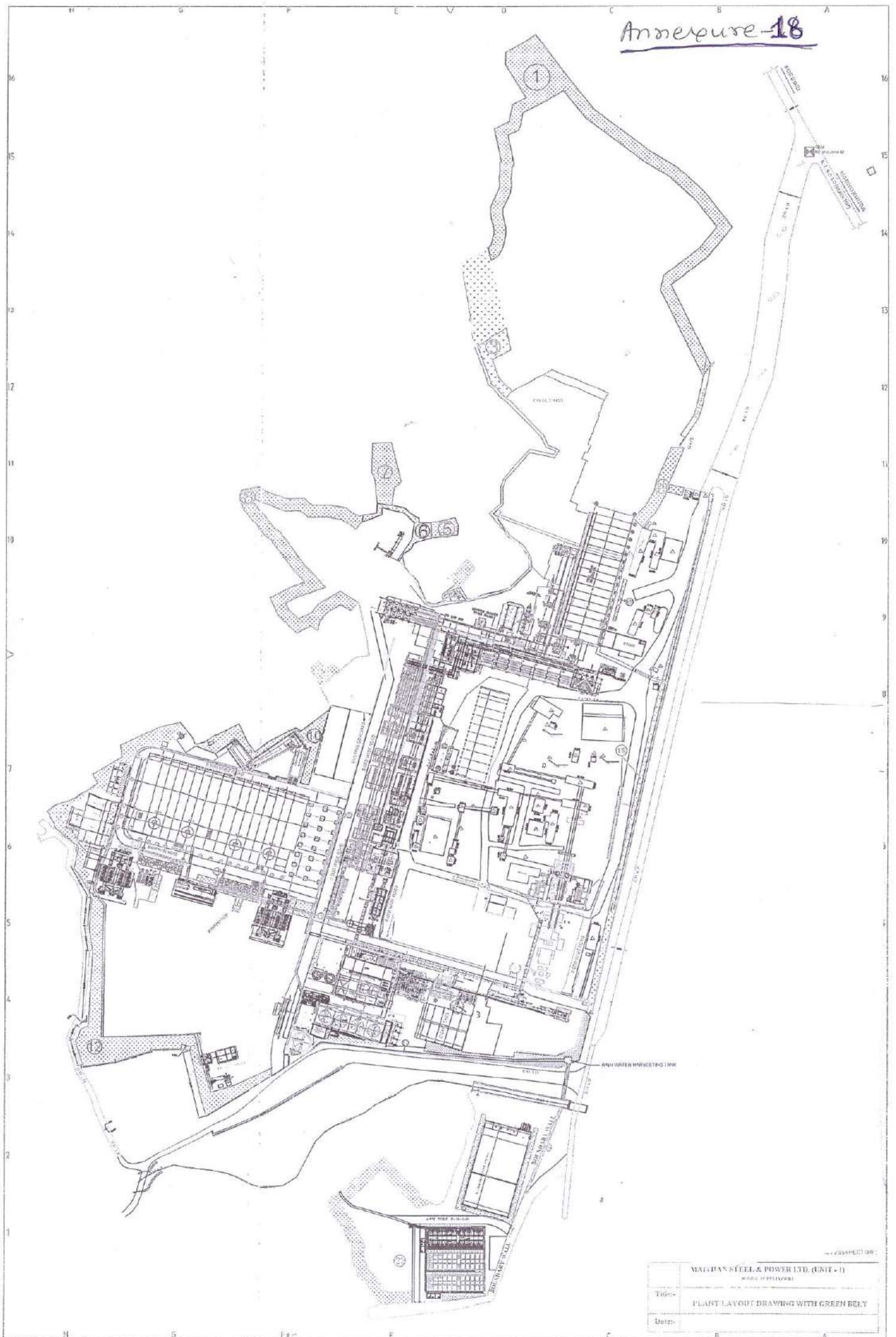
Garland Drain



COLLECTION PIT



Annexure-18





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TC-15288

TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1528825000000118F
 Report No. : GV/NL/24-25/122 Sample Ref. ID : NLM-005-2025(1)
 Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I) Report Date : 10.03.2025
 Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Date of Sampling : 25.02.2025
 Pin : 723121.
 Sample Description : Noise Level Total Time : 1 Hr.
 Sampling Location : 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 (10:18 Hrs to 11:18 Hrs.)			Night Time (01:08 Hrs. to 02:08 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
71.6	60.2	66.7	53.5	46.7	50.3

S. R. Chowdhury
 Reviewed by
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager

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

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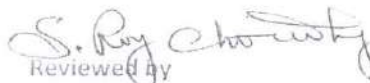
TC-15288

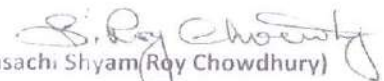
TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC1528825000000119F
Report No. : GV/NL/24-25/123 Sample Ref. ID : NLM-005-2025(2)
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I) Report Date : 10.03.2025
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Date of Sampling : 25.02.2025 to 26.02.2025
Pin : 723121. Total Time : 1 Hr.
Sample Description : Noise Level Sampling Method : IS : 9989 :1981
Sampling Location : Bonra Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 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 : Residential Area

Noise Level dB (A)					
Day Time (12:05 Hrs to 13:05 Hrs.)			Night Time (23:30 Hrs. to 00:30 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
53.6	48.6	50.5	43.6	38.2	41.0


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

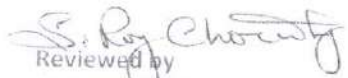
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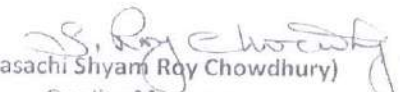
Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/124
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level
Sampling Location : Murulia Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000 }

Sample Ref. ID : NLM-005-2025(3)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to 26.02.2025
Total Time : 1 Hr.
Sampling Method : IS : 9989 :1981

Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Residential Area

Noise Level dB (A)					
Day Time (15:10 Hrs to 16:10 Hrs.)			Night Time (22:05 Hrs. to 23:05 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
54.1	48.6	51.1	43.5	39.4	41.5


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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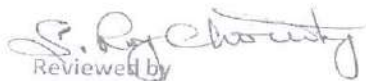
TEST REPORT OF NOISE LEVEL MONITORING


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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC152882500000118F
Report No. : GV/NL/24-25/122 Sample Ref. ID : NLM-005-2025(1)
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I) Report Date : 10.03.2025
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Date of Sampling : 25.02.2025
Pin : 723121.
Sample Description : Noise Level Total Time : 1 Hr.
Sampling Location : 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 (10:18 Hrs to 11:18 Hrs.)			Night Time (01:08 Hrs. to 02:08 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
71.6	60.2	66.7	53.5	46.7	50.3


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
Report No. : GV/NL/24-25/123
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia, Pin : 723121
Sample Description : Noise Level
Sampling Location : Bonra Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 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 : Residential Area

U.L.R. No. : TC1528825000000119F
Sample Ref. ID : NLM-005-2025(2)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to 26.02.2025
Total Time : 1 Hr.
Sampling Method : IS : 9989 :1981

Noise Level dB (A)					
Day Time (12:05 Hrs to 13:05 Hrs.)			Night Time (23:30 Hrs. to 00:30 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
53.6	48.6	50.5	43.6	38.2	41.0

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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TC-15288

TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/124
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level
Sampling Location : Murulia Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 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 : Residential Area

U.L.R. No. : TC1528825000000120F
Sample Ref. ID : NLM-005-2025(3)
Report Date : 10.03.2025
Date of Sampling : 25.02.2025 to 26.02.2025
Total Time : 1 Hr.
Sampling Method : IS : 9989 :1981

Noise Level dB (A)					
Day Time (15:10 Hrs to 16:10 Hrs.)			Night Time (22:05 Hrs. to 23:05 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
54.1	48.6	51.1	43.5	39.4	41.5

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
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Authorised Signatory
For, GREEN VISION

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End of the report.....

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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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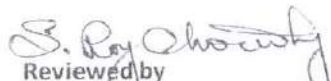
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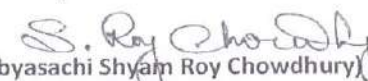
FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/125
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level (24 Hrs.)
Sampling Location : 2 X 100 TPD Kiln ESP Area
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.

U.L.R. No. : TC1528825000000133F
Sample Ref. ID : NLM-006-2025(1)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 &
27.02.2025
Total Time : 24 Hr.
Sampling Method : IS : 9989 :1981

Time	Lmax dB (A)	Lmin dB (A)	Leq dB (A)
09:15 hrs. to 10:15 hrs.	65.6	62.3	64.0
10:15 hrs. to 11:15 hrs.	67.2	65.4	66.9
11:15 hrs. to 12:15 hrs.	69.5	63.8	67.7
12:15 hrs. to 13:15 hrs.	67.2	64.9	66.8
13:15 hrs. to 14:15 hrs.	72.3	68.2	71.1
14:15 hrs. to 15:15 hrs.	70.5	69.5	70.2
15:15 hrs. to 16:15 hrs.	68.2	63.3	66.3
16:15 hrs. to 17:15 hrs.	66.9	64.2	66.4
17:15 hrs. to 18:15 hrs.	64.8	61.6	64.0
18:15 hrs. to 19:15 hrs.	65.4	63.9	65.2
19:15 hrs. to 20:15 hrs.	67.2	65.4	66.9
20:15 hrs. to 21:15 hrs.	66.9	64.8	66.5
21:15 hrs. to 22:15 hrs.	68.2	66.9	68.0
22:15 hrs. to 23:15 hrs.	72.5	68.3	71.2
23:15 hrs. to 00:15 hrs.	74.3	69.5	72.5
00:15 hrs. to 01:15 hrs.	71.6	64.6	69.1
01:15 hrs. to 02:15 hrs.	72.3	67.2	70.7
02:15 hrs. to 03:15 hrs.	73.9	68.3	71.8
03:15 hrs. to 04:15 hrs.	72.5	66.9	70.8
04:15 hrs. to 05:15 hrs.	69.9	62.8	67.2
05:15 hrs. to 06:15 hrs.	68.4	64.5	67.0
06:15 hrs. to 07:15 hrs.	70.5	65.4	69.2
07:15 hrs. to 08:15 hrs.	71.6	66.9	70.0
08:15 hrs. to 09:15 hrs.	68.3	62.6	66.2


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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GREEN VISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

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



TC-15288

TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/126
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level (24 Hrs.)
Sampling Location : 350 TPD Kiln ESP Area
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.

U.L.R. No. : TC1528825000000134F
Sample Ref. ID : NLM-006-2025(2)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 &
27.02.2025
Total Time : 24 Hr.
Sampling Method : IS : 9989 :1981

Time	Lmax dB (A)	Lmin dB (A)	Leq dB (A)
09:50 hrs. to 10:50 hrs.	75.4	69.5	73.6
10:50 hrs. to 11:50 hrs.	73.9	67.2	71.7
11:50 hrs. to 12:50 hrs.	76.9	64.8	72.2
12:50 hrs. to 13:50 hrs.	78.2	70.2	75.3
13:50 hrs. to 14:50 hrs.	77.2	71.6	75.7
14:50 hrs. to 15:50 hrs.	76.3	70.5	74.5
15:50 hrs. to 16:50 hrs.	72.5	69.4	71.8
16:50 hrs. to 17:50 hrs.	73.9	68.7	72.0
17:50 hrs. to 18:50 hrs.	74.6	71.2	73.7
18:50 hrs. to 19:50 hrs.	75.2	70.3	73.1
19:50 hrs. to 20:50 hrs.	74.9	68.9	73.2
20:50 hrs. to 21:50 hrs.	73.6	69.5	72.2
21:50 hrs. to 22:50 hrs.	72.5	68.2	71.3
22:50 hrs. to 23:50 hrs.	71.8	67.5	70.8
23:50 hrs. to 00:50 hrs.	73.5	66.9	71.0
00:50 hrs. to 01:50 hrs.	74.1	69.5	72.5
01:50 hrs. to 02:50 hrs.	75.3	68.2	72.9
02:50 hrs. to 03:50 hrs.	77.2	70.5	74.5
03:50 hrs. to 04:50 hrs.	76.9	71.3	75.0
04:50 hrs. to 05:50 hrs.	74.8	70.2	73.3
05:50 hrs. to 06:50 hrs.	72.3	69.5	71.7
06:50 hrs. to 07:50 hrs.	74.1	68.2	72.0
07:50 hrs. to 08:50 hrs.	73.8	69.9	73.0
08:50 hrs. to 09:50 hrs.	72.9	67.6	71.2

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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Page 1/1

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



TC-15288

TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/127
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level (24 Hrs.)
Sampling Location : Turbine Floor (C.P.P.)
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.

U.L.R. No. : TC1528825000000135F
Sample Ref. ID : NLM-006-2025(3)
Report Date : 10.03.2025
Date of Sampling : 26.02.2025 &
27.02.2025
Total Time : 24 Hr.
Sampling Method : IS : 9989 :1981

Time	Lmax dB (A)	Lmin dB (A)	Leq dB (A)
10:20 hrs. to 11:20 hrs.	77.6	70.5	75.2
11:20 hrs. to 12:20 hrs.	76.5	69.2	74.0
12:20 hrs. to 13:20 hrs.	78.2	68.6	74.6
13:20 hrs. to 14:20 hrs.	79.3	70.5	75.8
14:20 hrs. to 15:20 hrs.	77.2	68.5	73.6
15:20 hrs. to 16:20 hrs.	76.5	69.2	73.3
16:20 hrs. to 17:20 hrs.	75.4	70.3	72.8
17:20 hrs. to 18:20 hrs.	78.9	71.6	76.4
18:20 hrs. to 19:20 hrs.	77.5	69.5	74.7
19:20 hrs. to 20:20 hrs.	78.2	71.2	75.9
20:20 hrs. to 21:20 hrs.	79.5	70.8	76.0
21:20 hrs. to 22:20 hrs.	78.2	69.5	74.7
22:20 hrs. to 23:20 hrs.	76.7	70.2	74.5
23:20 hrs. to 00:20 hrs.	75.4	67.3	72.0
00:20 hrs. to 01:20 hrs.	73.3	69.5	72.6
01:20 hrs. to 02:20 hrs.	72.9	68.4	71.9
02:20 hrs. to 03:20 hrs.	71.7	67.6	70.8
03:20 hrs. to 04:20 hrs.	75.4	69.3	73.5
04:20 hrs. to 05:20 hrs.	76.2	70.2	74.4
05:20 hrs. to 06:20 hrs.	77.2	71.3	75.5
06:20 hrs. to 07:20 hrs.	75.4	70.5	74.0
07:20 hrs. to 08:20 hrs.	73.2	69.3	72.5
08:20 hrs. to 09:20 hrs.	78.1	70.2	75.3
09:20 hrs. to 10:20 hrs.	76.9	71.3	75.0

S. Roy Chowdhury
Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager

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

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



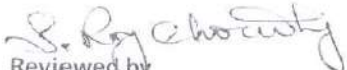
TEST REPORT OF NOISE LEVEL MONITORING

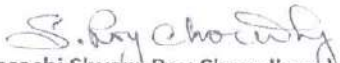
FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/24-25/128
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit - I)
Address of Customer : P.O. : Bonra, P.S. : Neturia, Dist. : Purulia,
Pin : 723121.
Sample Description : Noise Level (24 Hrs.)
Sampling Location : 9 MVA Furnace Area (Ferro)
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.

U.L.R. No. : TC1528825000000145F
Sample Ref. ID : NLM-007-2025
Report Date : 10.03.2025
Date of Sampling : 27.02.2025 &
28.02.2025
Total Time : 24 Hr.
Sampling Method : IS : 9989 :1981

Time	Lmax dB (A)	Lmin dB (A)	Leq dB (A)
10:08 hrs. to 11:08 hrs.	79.3	70.2	75.8
11:08 hrs. to 12:08 hrs.	80.5	71.6	77.3
12:08 hrs. to 13:08 hrs.	78.3	70.5	75.6
13:08 hrs. to 14:08 hrs.	77.5	69.5	74.7
14:08 hrs. to 15:08 hrs.	76.4	68.5	73.7
15:08 hrs. to 16:08 hrs.	79.2	70.2	76.0
16:08 hrs. to 17:08 hrs.	78.6	71.3	76.2
17:08 hrs. to 18:08 hrs.	75.4	69.5	73.7
18:08 hrs. to 19:08 hrs.	77.2	70.2	75.0
19:08 hrs. to 20:08 hrs.	80.5	72.3	77.8
20:08 hrs. to 21:08 hrs.	79.6	71.6	76.8
21:08 hrs. to 22:08 hrs.	77.5	69.5	74.7
22:08 hrs. to 23:08 hrs.	78.6	67.3	74.2
23:08 hrs. to 00:08 hrs.	75.4	69.2	72.5
00:08 hrs. to 01:08 hrs.	76.9	70.1	74.7
01:08 hrs. to 02:08 hrs.	77.2	69.3	74.5
02:08 hrs. to 03:08 hrs.	75.4	68.4	72.8
03:08 hrs. to 04:08 hrs.	79.5	69.9	76.0
04:08 hrs. to 05:08 hrs.	80.8	70.5	76.9
05:08 hrs. to 06:08 hrs.	77.2	68.6	74.1
06:08 hrs. to 07:08 hrs.	76.5	67.5	73.2
07:08 hrs. to 08:08 hrs.	74.3	65.3	71.0
08:08 hrs. to 09:08 hrs.	75.3	68.2	74.0
09:08 hrs. to 10:08 hrs.	77.2	69.3	72.1


Reviewed by
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager


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

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MAITHAN STEEL & POWER LTD

VILL + P.O - BONRA, P.S- NETURIA, DIST - PURULJA, W.B

Heat Stress Analysis Report

Sl. NO.	NAME	Date of Birth (DD/MM/YYYY)	DESIGNATION	DEPT.	SEX (M/F)	WEIGHT (Kgs)	HEIGHT (FT)	BMI TYPE	Blood Group	Chest	Pulse Rate Before (BP M)	Pulse Rate After (BP M)	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	SI/2 LEVEL (%)	Antenna	Result (Fit/Unfit)	Remarks
1	Sourav Banerjee	15.09.1989	Engineer	DRI	M	69	5.6	NORMAL	B+	Clear	92	96	4	97	97.2	0.2	120/80	120/80	0/0	14	98%	Nil	Fit	
2	Deepak Kumar Choudhary	01.02.1996	Jr Engineer	DRI	M	69	5.8	NORMAL	O+	Clear	83	91	11	97.1	96.3	-0.8	115/75	120/80	5/5	14	98%	Nil	Fit	
3	Sourav Mondal	12.11.1987	CRO	DRI	M	54	5.6	NORMAL	AB+	Clear	76	94	18	95.8	97.1	1.3	120/80	120/80	0/0	12	98%	Nil	Fit	
4	Anurban Choudhary	10.05.1981	Welder	DRI	M	61	5.5	NORMAL	A+	Clear	70	95	25	96	96	-3	110/68	110/70	10/2	14	98%	Nil	Fit	Low BP
5	Satya Kulu	02.04.1991	Electrician	DRI	M	52	5.5	NORMAL	O+	Clear	86	90	4	94.8	98.2	3.4	120/80	120/80	0/0	14	95%	Nil	Fit	
6	Arijan Kundu	26.10.1983	P.O	DRI	M	79	5.8	NORMAL	O+	Clear	76	92	16	96.4	97.8	1.4	110/76	117/78	7/2	14	97%	Nil	Fit	
7	Jaydeb Mondal	25.12.1982	P.O	DRI	M	75	5.4	NORMAL	O-	Clear	70	85	15	97.6	98	0.4	120/78	120/80	0/0	14	98%	Nil	Fit	
8	Subhojit Mondal	22.05.1998	SI	Ferro Alloys	M	74	5.7	NORMAL	A+	Clear	80	86	6	94.7	97.1	2.4	116/76	118/76	2/0	14	99%	Nil	Fit	
9	Narendranath Maju	14.02.2000	ASI	Ferro Alloys	M	59	5.4	NORMAL	A-	Clear	87	88	1	98.6	97.3	-1.3	120/80	118/80	-2/0	14	99%	Nil	Fit	
10	Phulan Mahata	01.01.2001	F Opt	Ferro Alloys	M	62	5.5	NORMAL	B+	Clear	86	88	2	95.1	96.2	1.1	118/78	120/82	2/4	14	98%	Nil	Fit	
11	Pradip Kumar Mishra	15.10.1990	F Opt	Ferro Alloys	M	70	5.5	NORMAL	AB-	Clear	87	93	6	97.3	99.3	2	118/78	120/81	2/3	14	98%	Nil	Fit	
12	Pushkar Kanta Guri	16.10.1990	CRO	Ferro Alloys	M	50	5.2	NORMAL	B-	Clear	99	96	-3	97.6	97.3	-0.3	110/70	115/76	5/6	14	99%	Nil	Fit	
13	Surjya Narayan Panda	17.10.1990	CRO	Ferro Alloys	M	74	5.6	Over Weight	O+	Clear	84	86	2	94.7	97.2	2.5	124/80	124/82	0/2	14	98%	Nil	Fit	
14	Manish Kumar Jha	18.10.1990	BO	CPP	M	72	5.6	NORMAL	A+	Clear	97	96	-1	97.8	98.6	0.8	118/78	122/80	4/2	14	96%	Nil	Fit	
15	Chandi Sitrachar	19.10.1990	BO	CPP	M	65	5.7	NORMAL	AB+	Clear	86	90	4	97.6	99.0							Nil	Fit	

DR. M. P. PASWAN
GENERAL PHYSICIAN & SURGEON
DIABETES ADVISER



MAITHAN STEEL & POWER LTD
VILL + P.O - BONRA, P.S- NETURIA, DIST - PURULIA, W.B

Heat Stress Analysis Report

Date : 24.02.2025

Sl. No.	NAME	Date of Birth (DD/MM/YYYY)	DESIGNATION	DEPT.	SEX (M/F)	WEIGHT (Kgs.)	HEIGHT (FT)	BMI TYPE	Blood Group	Chest	Pulse Rate Before (BP/M)	Pulse Rate After (BP/M)	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 (%)	Arousa	Result (Fit/Unfit)	Remarks
16	Sadhan Chandra Lavek	26.10.1990	SI	CPP	M	54	5.3	NORMAL	A+	Clear	84	87	3	95.4	96.8	1.4	116/76	118/78	2/2	14	98%	Nil	Fit	
17	Arjun Das	21.10.1990	TG Opt	CPP	M	62	5.6	NORMAL	O+	Clear	64	70	6	97.8	97.1	-0.7	110/70	118/78	8/8	14	98%	Nil	Fit	Low BP
18	Bhadra Nath Gouti	22.10.1990	Welder	CPP	M	76	5.9	NORMAL	O+	Clear	83	88	5	97.2	96.0	-1.2	120/80	120/80	0/0	14	93%	Nil	Fit	
19	Mukesh Kumar Mandal	23.10.1990	Electrician	CPP	M	50	5.6	Under Weight	O+	Clear	92	94	2	98.0	97.3	-0.7	122/80	124/82	2/2	14	99%	Nil	Fit	
20	Juendra Prasad Tripathi	24.10.1990	Fitter	CPP	M	73	5.2	Over Weight	B+	Clear	117	94	-23	94.7	97.6	3	120/80	120/80	0/0	14	99%	Nil	Fit	
21	Chandrasekar Mandal	25.10.1990	Engineer	CPP	M	71	5.8	NORMAL	A+	Clear	86	94	8	97.3	99.0	2	110/70	110/70	0/0	14	98%	Nil	Fit	
22	Abhinav Bti	26.10.1990	Fitter	CPP	M	65	5.6	NORMAL	A-	Clear	78	88	10	95.7	99.2	4	120/80	124/82	4/2	14	98%	Nil	Fit	
23	Santoy Mondal	27.10.1990	Welder	Ferro Alloys	M	50	5.4	Under Weight	B-	Clear	102	96	-6	96.3	96.5	0.2	118/78	120/80	2/2	14	99%	Nil	Fit	
24	Manas Chatterjee	28.10.1990	Fitter	Ferro Alloys	M	51	5.3	Under Weight	AB+	Clear	72	103	31	96.9	98.5	1.6	122/80	122/82	0/2	14	98%	Nil	Fit	
25	Sushovan Mandal	29.10.1990	Electrician	Ferro Alloys	M	59	5.5	NORMAL	O+	Clear	68	70	2	96.8	97.1	0.3	120/80	118/78	-2/2	14	97%	Nil	Fit	
26	Rakesh Nayak	30.10.1990	Electrician	Ferro Alloys	M	43	5.2	Under Weight	O-	Clear	122	94	-28	94.8	95.8	1.0	100/60	106/65	6/5	14	97%	Nil	Fit	Low BP
27	Debraj Chatterjee	31.10.1990	Engineer	CPP	M	72	5.4	NORMAL	A-	Clear	82	88	6	95.8	99.0	3.2	118/78	120/78	2/0	14	98%	Nil	Fit	
28	Ayon Kumar Mondal	01.11.1990	Engineer	CPP	M	58	5.2	NORMAL	B-	Mild cough	83	90	7	96.2	98.6	2.4	116/78	118/78	2/0	16	97%	Nil	Fit	

Dr. M. P. Paswan

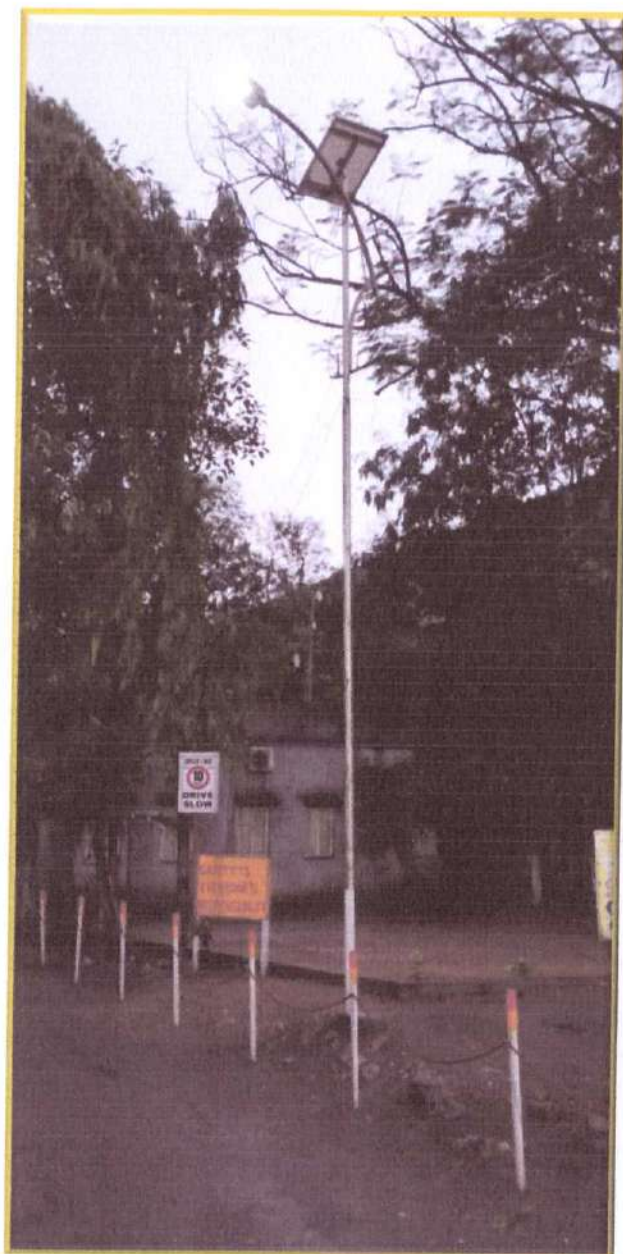
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BP	120/80	121-139/81-85	≥ 140/90
Category	Under weight	Nor. Weight	Over. Weight
BP	≤ 18.5	18.5-24.9	≥ 25-29.9
Category	Under weight	Nor. Weight	Obesity
BP	≤ 18.5	18.5-24.9	≥ 30

DR. M. P. PASWAN
GENERAL PHYSICIAN & SURGEON
DIABETES ADVISER
Regd. No.-30228 BMCR

Maithan Steel & Power Ltd.

(Unit-I)




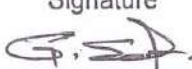

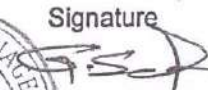
Solar Street Lights



WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	M/S MAITHAN STEEL & POWER Ltd (Unit - J)			
2	Sender's authorization No. :				
3	Manifest Document No. :	1- 1903			
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com			
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)			
6	Transporter's registration No. :	1-MD(E)/X/06			
7	Vehicle registration No. :	WB 31N-0098			
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com			
9	Receiver's authorization No. :	34/25 (HW)-4531/2022			
10	Waste description :	Cotton Waste			
11	Total quantity No of Containers :	100 KG. m3 or MT Nos.			
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)			
13	Special handling instructions and additional information :				
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.			
	Name and Stamp	Signature	Day	Month	Year
			3	1	03 2025
15	Transporter acknowledgement of receipt of Wastes :				
	Name and Stamp	Signature	Day	Month	Year
			3	1	03 2025
16	Receiver's certificate for receipt hazardous and other wastes :				
	Name and Stamp	Signature	Day	Month	Year
			3	1	03 2025

1. White Colour forwarded to WBPCB by HZW Sender.

3. Pink Colour retained by HZW Receiver.

5. Green Colour forwarded to WBPCB after disposal by HZW Receiver.

7. Grey Colour returned to SPCB of the HZW Sender (in case the Sender is in another Site) by HZW Receiver.

2. Yellow Colour retained by HZW sender.

4. Orange Colour retained by transporter.

6. Blue Colour returned to sender after disposal by HZW Receiver.

Ref. No. :- MSPL-I/HSE/22-23/006
Rev. No. :- 00

Date of Issue :- 27/09/2022



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 By

A handwritten signature in black ink, appearing to read 'Gulshan Prajapati', written over a horizontal line.

Mr. Gulshan Prajapati
Safety Officer-HSE

Checked By

A handwritten signature in black ink, appearing to read 'Sourav Agarwal', written over a horizontal line.

Mr. Sourav Agarwal
Factory Manager



Initiated By

Maithan Steel & Power Ltd.

Mr. Mritunjoy Chandra

A handwritten signature in black ink, appearing to read 'Mritunjoy Chandra', written over a horizontal line.
Director

TABLE OF CONTENTS:

PURPOSE	03
OBJECTIVES	03
SCOPE	03
PROCEDURE	03
ABBREVIATIONS	03
EMPLOYEE RESPONSIBILITIES	04
DEFINITION OF ENVIRONMENTAL RISKS	04
ASSOCIATED STUDIES	05
➤ HAZARD OPERABILITY STUDY (HAZOP)	
➤ HAZARDOUS AREA CLASSIFICATION (HAC)	
➤ FIRE RISK ASSESSMENT (FRA)	
RISK MANAGEMENT PROCESS	05
HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA)	06
MAN-MACHINE INTERFACE (MMI)	07
JOB SAFETY ANALYSIS (JSA)	08
OVERALL RISK MANAGEMENT PROCESS	09
CHECKLIST OF POTENTIAL HAZARDS	10
HIERARCHY OF CONTROLS	10
SEVERITY RATING	11
LIKELIHOOD RATING	11
RISK MATRIX	11
RISK RATING	12
CLASSIFICATION OF MAJOR HAZARDOUS SUBSTANCES	12
HAZARD ASSESSMENT AND EVALUATION	13
PRELIMINARY HAZARD ANALYSIS	13
FIRE EXPLOSION AND TOXICITY INDEX (FE&TI) FOR STORAGE UNIT	14
FAILURE MODE EFFECT ANALYSIS FOR PROCESS UNITS	15
FMEA IMPLEMENTATION	15
RISK CALCULATION & PROPOSED MITIGATION MEASURE	15
SAFETY MEASURES	17
PROVISION OF PPE'S	17
LOADING AND TRANSPORTATION OF MATERIALS	17
OPERATING MACHINERIES	17
VEHICULAR TRAFFIC	18
OBJECTIVES OF ON SITE EMERGENCY PLAN	18
EMERGENCY ORGANISATION	18
KEY PERSONNEL & THEIR RESPONSIBILITIES	19



BARAKAR X-RAY CLINIC & SCAN CENTRE

G. T. Road, Barakar-713 324, Phone : 0341-2520462
Working Hours :- 9 am. to 7 pm. daily

To

THE MAITHAN STEEL & POWER LIMITED

PO: BONRA

PS: NITURIA

DIST: PURULIA (W.B.)

Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/294, DATED: - 09/09/2024

FOLLOWING PATIENTS TEST DONE.

THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

1. Sourav Banerjee
2. Deepak Kumar Chaudhary
3. Sumit Mondal
4. Anirban Chowni
5. Saroj Kuila
6. Arjun Kundu
7. Joydeb Modak
8. Subhajit Mondal
9. Narendranath Maji
10. Phulan Mahato

(Signature)

BARAKAR X-RAY CLINIC & SCAN CENTRE
G.T. ROAD, BARAKAR - 713324

Dr. Abir Guha
M.D.S. (ENT), M.D. (PATH)
Consultant Pathologist

Verified by -
Chief Technologist
(Path)

Dr. Manoj Kumar
MD (Radio-Diagnosis)
Consultant Radiologist

Dr. Abhishek Ghosh
M.B.B.S. DMRD
Consultant Radiologist

2. FLUOR. ID ULTRASOUND Color Doppler Small Parts USG, Digital X-Ray, Echo-Cardiography & Pathology

This is a professional opinion, not a final diagnosis. It should be considered along with other clinical findings and may be reviewed in case of any discrepancy.

BARAKAR X-RAY CLINIC & SCAN CENTER
TEST DONE ON-24.09.2024

SL.NO	NAME	BLOOD ANALYSIS								ECG	PFT	X-RAY (CHEST)
		HEMOGLOBIN (gm/dl)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCYTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)			
1	Sourav Banerjee	14.2	6,700	70	20	0	0	0	8	"A"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	Deepak Kumar Chaudhary	13.8	7,500	70	30	0	0	0	5	"O"+	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
3	Sumit Mondal	13.6	8,600	60	60	0	4	0	15	"B"+	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
4	Anirban Chowdhury	11.3	8,300	50	30	0	0	0	10	"AB"+	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
5	Saroj Kulla	15.5	8,100	48	30	2	18	0	30	"B"+	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
6	Arjun Kundu	14.3	10,500	46	20	0	0	0	6	"O"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
7	Joydeb Modak	14.2	6,700	70	20	0	0	0	8	"A"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
8	Subhajit Mondal	12.1	9,000	80	35	0	2	0	10	"B"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
9	Narendranath Maji	14.0	5,200	70	23	2	5	0	6	"O"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
10	Phulan Mahato	12.9	10,200	40	20	2	8	0	14	"B"+	SEVERE RESTRICTION	WITHIN NORMAL LIMIT

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Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/294, DATED: - 09/09/2024

FOLLOWING PATIENTS TEST DONE.

THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

1. Pradip Kumar Mishra
2. Tushar Kanta Giri
3. Surjya Narayan Panda
4. Manish Kumar Jha
5. Chandi Sutradhar
6. Sadhan Chandra Layek
7. Arijit Das
8. Bholanath Gorai
9. Mukesh Kumar Mandal
10. Jitendra Prasad Tripathi

BARAKAR X-RAY CLINIC & SCAN CENTRE
G.T. ROAD, BARAKAR - 713324

Dr. Abir Guha
M.D.S. (ENT), M.D. (PATH)
Consultant Pathologist

Verified by -
Chief Technologist
(Path)

Dr. Manej Kumar
MD (Radio-Diagnosis)
Consultant Radiologist

Dr. Abhishek Ghosh
M.B.B.S. DMRD
Consultant Radiologist

C.T. SCAN, 4D ULTRASOUND, Color Doppler, Small Parts USG, Digital X-Ray, Echo-Cardiography & Pathology

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BARAKAR X-RAY CLINIC & SCAN CENTER
TEST DONE ON-21.09.2024

SL.NO	NAME	BLOOD ANALYSIS									ECG	PFT	X-RAY (CHEST)
		HEMOGLOBIN (gm/dl)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCYTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)	BLOOD GROUP			
1	Pradip Kumar Mishra	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	Tushar Kanta Giri	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
3	Suriya Narayan Panda	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
4	Manish Kumar Jha	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
5	Chandi Sutradhar	12.1	9,000	60	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
6	Sadhan Chandra Layek	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
7	Arijit Das	13.1	11,500	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
8	Bholanath Gorai	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
9	Mukesh Kumar Mandal	13.6	7,900	44	19	0	1	0	5	"AB"+	LEFT VENTRICULAR HYPERTROPHY	NORMAL SPIROMETRY	FIBROTIC SCARRING LEFT UPPER ZONE
10	Jitendra Prasad Tripathi	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT

BARAKAR X-RAY CLINIC & SCAN CENTRE

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To

THE MAITHAN STEEL & POWER LIMITED

PO: BONRA

PS: NITURIA

DIST: PURULIA (W.B.)

Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/294, DATED: - 09/09/2024

FOLLOWING PATIENTS TEST DONE.

THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

1. Chandrachur Mandal
2. Abhijit Bit
3. Sanjoy Mondal
4. Manas Chatterjee
5. Sushovan Mondal
6. Rakesh Nayak
7. Debraj Chattaraj
8. Ayon Kumar Mondal
9. Satyajit Pradhan
10. Somnath Mondal

BARAKAR X-RAY CLINIC & SCAN CENTRE
G.T. ROAD, BARAKAR - 713324

Dr. Anir Guha
MBBS, DPM, MD (PATH)
Surgeon Pathologist

Verified by -
Chief Technologist
(Path)

Dr. Manoj Kumar
MD (Radio-Diagnosis)
Consultant Radiologist

Dr. Abhishek Ghosh
M.B.B.S. DMRD
Consultant Radiologist

G. T. SCAN, 4D ULTRASOUND, Color Doppler, Small Parts USG, Digital X-Ray, Echo-Cardiography & Pathology

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BARAKAR X-RAY CLINIC & SCAN CENTER

TEST DONE ON-23.09.2024

SL.NO	NAME	BLOOD ANALYSIS								ECG	PFT	X-RAY (CHEST)	
		HEMOGLOBIN (gm/dl)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCYTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)				BLOOD GROUP
1	Chandrachur Mandal	13.2	8,700	51	40	0	0	0	12	"O" +	SINUS ARRHYTHMIA	MILD RESTRICTION	WITHIN NORMAL LIMIT
2	Abhijit Bit	14.2	7,400	80	50	2	8	0	45	"O" +	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
3	Sanjoy Mondal	12.1	9,000	80	35	0	2	0	10	"B" +	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
4	Manas Chatterjee	15.4	9,500	70	50	0	2	0	20	"A" +	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
5	Sushovan Mondal	15.0	8,700	36	4	0	0	0	12	"O" +	INCOMPLETE RIGHT BUNDLE BRANCH BLOCK	MILD RESTRICTION	WITHIN NORMAL LIMIT
6	Rakesh Nayak	14.9	9,000	80	35	1	4	0	12	"B" +	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
7	Debraj Chattaraj	13.8	7,500	70	30	0	0	0	5	"O" +	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
8	Ayon Kumar Mondal	13.5	6,300	66	40	1	8	0	10	"O" +	SINUS BRADYCARDIA	MILD RESTRICTION	WITHIN NORMAL LIMIT
9	Satyajit Pradhan	14.1	8,200	60	30	1	4	0	15	"O" +	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
10	Somnath Mondal	13.2	8,700	51	40	0	0	0	12	"O" +	SINUS ARRHYTHMIA	MILD RESTRICTION	WITHIN NORMAL LIMIT

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.

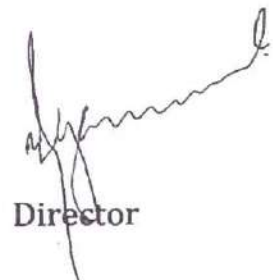
Our goal is the '**Protection of the Environment**' and the '**Efficient use of Natural Resources**' for the Sustainable Growth of Business.

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)

 www.maithansteel.com

Works: Unit-II

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

☎ 8651540007