

File No: MSPL -U2 /Env Compl. / December'24

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

Dated : 01.12.2024

**Subject:** Six Monthly Compliance Report for the **Period of April '2024 to September'24** of M/S Maithan Steel & Power Limited (Unit –II) located at Chittaranjan Road, Dendua More, Vill Nakrajoria, PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

**Ref:** EC No: J-11011/679/2008-IA. II (I) dated 16<sup>th</sup> April 2019 with amended dated 14<sup>th</sup> October 2019.

Respected Sir / Madam (s),

With respect to the above subject, we are hereby submitting the six monthly compliance reports period from **April'2024 to September'2024 for the Environment Clearance (EC) vide letter No: J-11011/679/2008-IA. II (I) dated 16<sup>th</sup> April 2019 with amended dated 14<sup>th</sup> October 2019 for Expansion of Steel Melting Shop (IF with LRF & CCM), from 1,35,000 TPA to 3,75,000 TPA; Rolling Mill from 90,000 TPA to 2,97,000 TPA; Cold Drawing Workshop 33,000 TPA at Chittaranjan Road, Dendua More, Vill – Nakrajoria, PS – Salanpur, Dist – Paschim Bardhaman, West Bengal in the name of M/S Maithan Steel & Power Limited (Unit – II), in soft copy format vide mail.**

Hope you will find the same in order.

Thanking you

Yours faithfully

For, M/S Maithan Steel & Power Limited



Director  
(Authorised Signatory)



C.C:

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

2. The Environment Engineer, Asansol Regional Office, West Bengal Pollution Control Board, Dr. B.C. Roy Road, Asansol, Dist – Paschim Bardhaman, WB – 713301.

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

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

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

Enclosures:

- ✓ 1) Compliance Report for EC Conditions
- ✓ 2) Copy of OCEMS Data from April'2024 to September '2024 as Annexure – I
- ✓ 3) Copy of Stack Emission Monitoring Data as Annexure – II
- ✓ 4) Copy of Fugitive Emission Monitoring Report as Annexure – III
- ✓ 5) Copy of AAQM Report as Annexure – IV
- ✓ 6) Copy of CREP for the Existing Production Unit as Annexure – V
- ✓ 7) Copy of Ground Water Monitoring Report (Pre & Post Monsoon) as Annexure – VI
- ✓ 8) Copy of STP Effluent Water Analysis Report as Annexure – VII
- ✓ 9) Copy of Drinking Water Quality Report as Annexure – VIII.
- 10) Copy of Ambient & Workzone Noise Quality Monitoring Report as Annexure – IX
- ✓ 11) Copy of Heat Stress Analysis Report as Annexure – X
- ✓ 12) Copy of Occupational Health Report as Annexure – XI
- ✓ 13) Copy of CER Cost Incurred as Annexure – XII
- ✓ 14) Copy of Recurring Cost for EMP as Annexure – XIV
- ✓ 15) Copy of Newspaper Advertisement regarding grant of EC from MoEF&CC, New Delhi as Annexure – XV
- ✓ 16) Copy of Initiation letter to the Local Administration regarding grant of EC from MoEF&CC, New Delhi as Annexure – XVI
- ✓ 17) Copy of Decarbonization Report as Annexure - XVII



**Registered Office:**

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CIN: U27102WB2001PLC093321

**Works: Unit-I**

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

🌐 [www.maithansteel.com](http://www.maithansteel.com)

**Works: Unit-II**

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

☎ 8651540007

**Six Monthly EC Compliance Report of M/S Maithan Steel & Power Ltd (Unit –II)**

**for the Period of**

**April '2024 - September '2024**



**Half Yearly Compliance Report**

**On**

**Environmental Clearance Conditions**

**(MoEFCC letter Ref. No: J-11011/679/2008-IA-II(I) Dated 16.04.2019 Amended Dated 14.10.2019)**

**Period : April'2024 – September '2024**

**Submitted By**

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

**At, Vill – Nakrajoria, PO & PS /Tehsil – Salanpur**

**Dist – Paschim Bardhaman, West Bengal - 713357**



## HALF YEARLY EC COMPLIANCE REPORT

**Name of the Project:** Expansion of Steel Melting Shop (IF with LF & CCM): from 1,35,000 TPA to 3,75,000 TPA; Rolling Mill: from 90,000 TPA to 2,97,000 TPA; Cold Drawing Workshop: 33,000 TPA by M/s. Maithan Steel & Power Ltd, located at Vill- Nakrajoria, PO & PS- Salanpur, Dist- Paschim Bardhaman, West Bengal.

**Clearance Letter No. with date:** EC No- J-11011/679/2008-IA. II(I) dated 16.04.2019 and amended dated 14.10.2019

**Period of Compliance Report:** April' 2024 to September' 2024

### A. Specific Conditions:

Sr. No.	Conditions	Compliance Status
i.	The project proponent shall plan for re-charging of rain water equivalent to the amount of the water abstracted from the ground.	Our water requirement is fulfilled by surface water from Damodar Valley Corporation (DVC) after obtaining the permission of the concerned authority for the current operational plant. We have also started rain water capturing system along with shade catchment areas.
ii.	100% hot charging has to be done and no reheating furnace will be used.	There is no provision of reheating furnace for the current operational plant as 100% hot metal will pass through CCM to hot rolling mill.

### B. General Conditions:

I. Statutory Compliance		
Sr. No.	Conditions	Compliance Status
i.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the state pollution Control Board/ Committee.	Already being complied with. Consent to establish dated 10-01-2020 for the installation and consent to operate permissions have been obtained for operation of 3,75,000 TPA SMS (3x20T, 4x15T IF & CCM), 2,97,000 TPA Rolling Mill (1x300 & 1x600 TPD) & 33,000 TPA Cold Drawing Workshop (1x100 TPD) dated 02.08.2023 from WBPCB.



I. Statutory Compliance		
Sr. No.	Conditions	Compliance Status
ii.	The project Proponent Shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project.	Ground water is not used for the project & production purposes. Hence permission from CGWA/ concerned authority is not necessary.
iii.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Already being complied with. Hazardous Waste Authorization certificate is obtained from concerned department of WBPCB. Authorization memo no: 10/2S(HW)-4406/2020 dated 28.01.2021, which is valid up to 30-10-2025.
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30 <sup>th</sup> May 2008 as amended from time to time; S.O. 3305(E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time) and connect the system to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The Online Continuous Emission Monitoring Systems (OCEMS) are installed with the process stack connected with currently operational 4x15T IF & 3x20T IF as per CPCB guidelines and the 24x7 online data is transferred to CPCB server through online portal. The OCEMS data for the six-monthly period (April,2024 to September, 2024) is attached as Annexure- I.  Stack Emission is monitored at 4x15T IF & 3x20T IF by third party monitoring agency which is NABL accredited laboratory. As per the stack emission monitoring report submitted, stack emission is monitored in the month of September, 2024. Stack Emission Report is attached as Annexure- II
ii.	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.	Agreed & complied.  Fugitive Emissions are monitored Near Raw Material Shed, Near SMS Area, Near Rolling Mill Area, Gate No-1 & Gate No-2 by third party monitoring agency which is NABL accredited laboratory. As per the fugitive emission monitoring reports submitted, fugitive emissions were monitored in the month of September, 2024. Fugitive Emission Report is attached as Annexure- III.
iii.	The project proponent shall install carryout Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants released (e.g., PM <sub>10</sub> and PM <sub>2.5</sub> in	Noted and complied.  Ambient Air Quality Monitoring (AAQM) is being done on regular basis with our ambient station as directed



	reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	and by WBPCB/ MoEF&CC/ NABL accredited laboratories. We installed four Ambient Air Quality (AAQ) Monitoring Stations. AAQ are monitored at four locations viz. Near Plant Main Gate inside premises and Near Salanpur Village, Near Nakrajoria Village & Near Dendua Village outside the plant premises by third party monitoring agency which is NABL accredited laboratory. Ambient emissions were monitored as per the AAQ monitoring reports submitted in the month of September, 2024. AAQM Reports are attached as Annexure– IV.
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Being complied. The 24x7 OCEMS data, manual Stack Monitoring report, Ambient Air Quality & Fugitive Emission reports are attached with this report for your ready reference.
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.	Agreed & already complied. Existing SMS (4x15T IF & 3x20T IF) are equipped with bag filters, suction hoods and ID Fans. All bag houses are design to meet the standard below prescribed limit. An adequate dust suppression is provided in material storage sheds, unloading & transfer points for controlling fugitive emission. The dust from APC devices are collected and reused in the process. Movable water sprinkling tanker & fixed water sprinklers have been used inside the plant premises to mitigate the fugitive emission. Dedicated manpower is continuously engaged to control the fugitive emission inside the plant premises.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better functioning of bag houses.	Already being complied with. From visual observation of stack emissions, differential pressure is checked in bag house. If, damage of bags is detected, damage bags are replaced by taking Shut Down of IF unit. In running condition, bags are cleaned by pulse air jet using cleaning timer cycle.
vii.	Provide Pollution Control system in the sponge iron plant as per CREP Guidelines of CPCB.	Not Applicable. The unit does not have any sponge iron division. But we have attached the CREP according to our existing



		manufacturing units as Annexure- V for your ready reference.
viii.	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads shop floors, roofs, regularly.	Already Being complied with. Road Sweeper Machine and Indoor Vacuum Cleaners are engaged to control the dust inside the premises.
ix.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	Not Applicable. Iron ore, coal or coke are not used in the process for the current operational plant.
x.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation;	Already Being complied with. Raw materials are coming to plant through fully covered trucks by tarpaulins for the current operational plant.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Unit uses Sponge Iron, Pig Iron and Iron Scrap as raw materials. So wind shelter fence and chemical spraying are not applicable. We are using covered shed instead of using wind shelter.

### III. Water quality monitoring and preservation

	Conditions	Compliance Status
i.	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30 <sup>th</sup> May 2008; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)	As the plant is based on "ZLD" concept, so no waste water is discharged outside the plant premises. We do not have any Sponge Iron Plant/ Thermal Power Plant.  For the current operational plant, the water is only used for cooling which is reused in process. The domestic waste water is reused for developing green belt and dust suppression system after treating in the Sewage Treatment Plant. We recycle the process water of Rolling Mill separating oil & grease. We have also installed Effluent Treatment Plant with PTZ Camera.



III. Water quality monitoring and preservation		
	Conditions	Compliance Status
ii.	The project proponent shall monitor regularly the 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.	Agreed and Complying We monitored the ground water in September'24 (Pre and Post monsoon) for four locations- one in the plant & three outside village areas; by NABL accredited laboratory. Analysis Report of September'24 is enclosed as Annexure- VII.
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Already being complied. Drinking Water & Effluent Water is being monitored on regular basis by WBPCB/ MoEF&CC/ NABL accredited laboratories. NABL accredited laboratory has done the drinking water quality analysis at the tap near Central Store and effluent water analysis report of STP inlet and STP outlet in the month of September, 2024. Effluent Water Analysis Reports of STP inlet & STP outlet are attached as Annexure- VIII and the Drinking Water Analysis Reports are attached in Analysis Report as Annexure- IX.
iv.	Adhere to 'Zero Liquid Discharge'.	Already being complied with & will be continued too. As the plant is based on "ZLD" concept, no waste water is discharged outside the plant premises. The water is only used for cooling which is reused in process. The waste water is reused after treated in the Sewage Treatment Plant (STP) & Effluent Treatment Plant (ETP) for developing green belt and dust suppression system.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Already Being complied with. We installed 100 KLD STP for treating the domestic waste water and it is working properly according to submitted analysis report.
vi.	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.	Agreed and complied. Garland drains have been constructed to arrest the surface run off water during the event of rain and it is collected in the storm water pond to utilize for dust suppression by the movable water tank.





III. Water quality monitoring and preservation		
	Conditions	Compliance Status
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Rain water harvesting system is being implemented. The rain water is being collected in the roof top catchment area and stored in reservoir.
viii.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation and treatment of used water, practicing cascade use and by recycling treated water.	Already being complied with. The water is only used for cooling which is reused in process. The waste water is reused for developing green belt and dust suppression system after treating in the STP & ETP. Also recycling the waste water of rolling mill through oil & grease separator to reuse.
IV. Noise monitoring and preservation		
	Conditions	Compliance Status
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the ministry as a part of six-monthly compliance report.	Noted & already being complied with. Noise Monitoring is being done on regular basis by WBPCB/ MoEF&CC/ NABL accredited laboratories. Green vision lab, West Bengal which is NABL/ MoEFCC accredited laboratory has done the analysis at four locations viz. Near Admin Building, Dendua Village, Salanpur Village & Nakrajoria Village in the month of September, 2024. The Ambient & Work Zone Noise quality monitoring reports are attached in Analysis Report as Annexure– X.
ii.	The ambient noise levels should confirm to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time to 70 dB(A) during night time.	Ambient Noise in day and night time are within norms as per submitted analysis report.
V. Energy Conservation measures		
	Conditions	Compliance Status
i.	The project proponent shall provide waste heat recovery system on the DRI kilns.	Not applicable. As there is no DRI Kiln in the project.
ii.	The dolochar generated shall be used for power generation.	Not applicable because there is no DRI kiln.



V. Energy Conservation measures		
	Conditions	Compliance Status
iii.	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.	Being complied with. Solar light systems are installed at the inside & outside plant premises. Roof top solar panel also installed
iv.	Provide LED lights in their offices and residential areas.	Already implemented.
VI. Waste Management		
	Conditions	Compliance Status
i.	Used refractories shall be recycled as far as possible.	Not applicable.
ii.	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 and understanding in this regard shall be submitted to the Ministry's Regional Office.	Not applicable. No fly ash generated in the present manufacturing process.
iii.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016.	Already Being complied. Used oil is sold to WBPCB authorized recycler (Here, i.e., BA-MA Oil Industries) and cotton waste/ jute containing oil is sent CHWTSDF (Here, i.e., West Bengal Waste Management Limited). It has been also mentioned in the submitted Hazardous Waste annual return (Form-4 for the 2022-23 financial year) to the West Bengal Pollution Control Board (WBPCB). The same has been submitted to WBPCB for the financial year 2023-24 on 30 <sup>th</sup> June 2024.
iv.	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste is composted and is used as manure/ bio-fertilizer in gardening.
VII. Green Belt		
	Conditions	Compliance Status
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	33% of total area i.e. 10.27 ha has been earmarked for green belt development. In the financial year (2021-22), there was 3597 no. trees planted inside the plant premises and in the financial year (2022-23), 1591 no. of trees are planted to complete the green belt mentioned in EC. In the financial year (2023-24) 3673 trees are planted and in the current reporting period 600 trees are planted. Total existing trees are around 13,927 till date.



ii.	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.	Being complied. Report of the same is attached as Annexure for your reference.
<b>VIII. Public Health and Public hearing Issues</b>		
	<b>Conditions</b>	<b>Compliance Status</b>
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	A disaster management cell headed by site incident controller has been formed to face emergency and disaster. Time to time training is also given to the Labourers/ employees.
ii.	The project proponent shall carry out 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.	The workmen have been provided PPE like asbestos apron, gloves, safety shoes and color glasses. Work zone are being rotated periodically and the shifts for workers working at high temperature zone is changed frequently. We periodically done Heat Stress Analysis Report, attached as Annexure- XI.
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, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Existing plant infrastructure and facilities has been provided to Construction Labourers.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Already being complied with. Occupational health surveillance of the workers is being periodically accessed and records are being maintained as per the Factories Act 1948. OHS record is enclosed as Annexure- XII.



IX. Corporate Environmental Responsibility (CER)		
	Conditions	Compliance Status
i.	The project proponent shall comply with the provisions contained in this Ministry's Om vide F. No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	The cost incurred in CER is being carried out for social development and welfare measures in the surrounding villages.  The CER detail is attached as Annexure- XIII.
ii.	The company shall have a well laid down environmental policy duly approved 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 shareholder's/ 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.	Already being complied with. The company has a well laid down environment policy duly approved by Board of Directors. Standard Operating Procedure for individual equipments have been printed and distributed to supervisors for ready reference. Important parameters have been displayed in working area. Board Resolution regarding environmental policy was already submitted with six-monthly report with displayed at the entrance of main gate.
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 report directly to the head of the organization.	Being Complied A separate Environment Management Cell is working under Workmen Controller (WMC) who is also organizational head. All abnormalities and deviations are directly reported to him, who take up the matter with Board of Directors for immediate action and budgetary provision. New employee(s) of Environment Cell for our project is under process.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	Agreed and already being complied with.  Adequate funds have been deployed in CAPEX and OPEX. An itemized action plan has been drawn for implementing the stipulated conditions. The detail about the Recurring Cost on Environmental Safeguard for current operational plant is enclosed as Annexure- XIV.



v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Already being complied & Will be complied too in future. The company has ISO 9001, ISO 14001 & ISO 45001 certificate after successful completion of the project.
vi.	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the Sponge Iron plants shall be implemented.	There is no sponge iron unit in the EC awarded configuration. So, implementation of CREP for the sponge iron plant is not required. We have already submitted the CREP for our existing production units as Annexure- V.

**X. Miscellaneous**

	Conditions	Compliance Status
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 in at least 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.	Already being complied with. Accorded Environmental Clearance was published in two local Newspapers and also in company's website. Advertisement copy is attached as Annexure- XV.
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.	Already being complied with. EC copy was submitted to the Heads of Local bodies, Panchayats and/or Municipal bodies in addition to the relevant offices of the Government.
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.	We have already uploaded the conditions with compliance to the website.  Agreed to update on half-yearly basis.



X. Miscellaneous		
	Conditions	Compliance Status
iv.	The project proponent shall monitor the criteria pollutants levels level namely; PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> (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.	Noted & already being complied with. The management of MSPL (M/s. Maithan Steel & Power Limited) is monitoring criteria pollutants level namely: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions of PM) by NABL accredited third party monitoring agency. Emission levels of pollutants of different units is displayed on environment information board as per CPCB format outside the main gate of the plant for disclosure to the public and also uploaded with compliance report on the website of the company.
v.	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.	Noted & already being complied with. Six-monthly report on the status of compliance of the stipulated environmental conditions are being submitted to MoEF&CC and displayed on the website
vi.	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.	Agreed and already being complied with. For the financial year 2021-22, Environmental Statement in prescribed format was submitted to the West Bengal Pollution Control Board vide letter no. MSPL2/ENV_Statement/2023-24 dated 05.09.2023 and the same has been submitted on 30 <sup>th</sup> September 2024 for the financial year (2023-24).
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted. Financial closure date is 20-10-2022; final approval of the project by the concerned authorities is 10-01-2020 & commencing the land development work from 04-05-2020.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted.
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.	Agreed.



x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
xi.	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
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii.	The ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
xiv.	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
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed.



## **ANNEXURE – I**

**(Copy of OCEMS Data from April'2024 to September'2024)**





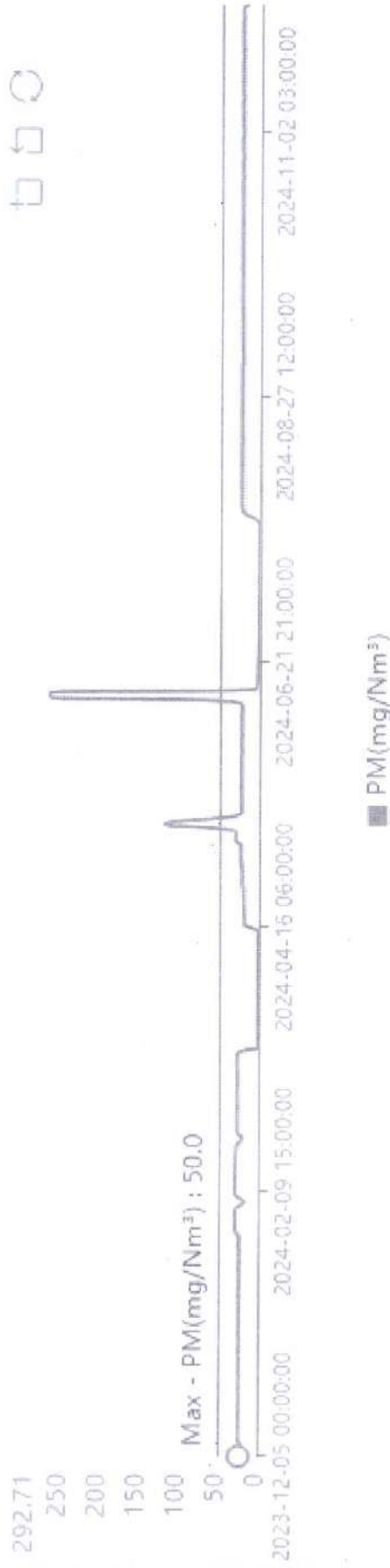
# Maithan Steel & Power Ltd (Unit II) Stack\_1\_Induction

Time Dimension - 365 Days Ago

Average - 1 Days

Furnace\_Maithan-U-2\_Salanpur

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

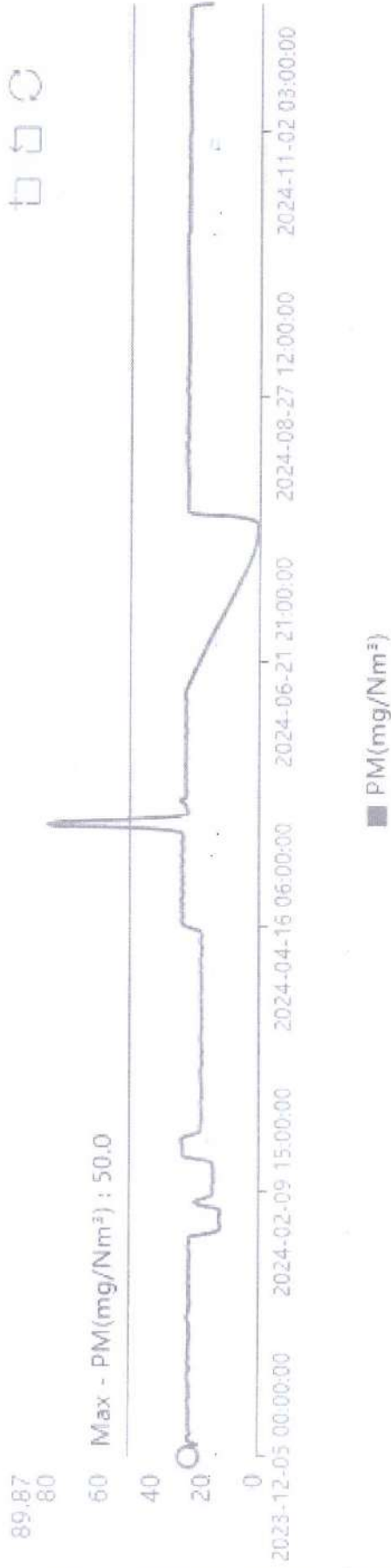


# Maithan Steel & Power Ltd (Unit

Time Dimension - 365 Days Ago  
Average - 1 Days

II) Stack\_2\_InductionFurnance\_03x20TPH

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



## **ANNEXURE – II**

**(Copy of Stack Emission Monitoring Report)**





# 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-11003

## TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC110032400000708F	
Report No.	: GV/AR/24-25/219	Sample Ref. ID	: AS-149-2024(4)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - II)	Report Date	: 12.09.2024
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 26.08.2024
		Sample Received On	: 26.08.2024
Sample Description	: Stack Air	Analysis Started On	: 27.08.2024
Sampling Location	: Induction Furnace	Analysis Completed On	: 27.08.2024
Sample Condition	: In GMF Thimble	Time of Sampling	: 11:30 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Testing Location	: At Laboratory		

### A. GENERAL INFORMATION ABOUT STACK

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

### B. FUEL CHARACTERISTIC REPORT

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

### C. RESULTS OF GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ( $^{\circ}$ C)	52	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	753.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	5.79	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow ( $\text{Nm}^3/\text{hr.}$ )	108400.47	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter ( $\text{mg}/\text{Nm}^3$ )	21.89	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 12% $\text{CO}_2$	---	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of $\text{SO}_2$ ( $\text{mg}/\text{Nm}^3$ )	---	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of $\text{CO}_2$ (% V/V)	2.6	IS:13270:1992, Reaffirmed 2014
09. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014
Pollution Control Device	: Bag Filter	
Permanent Ladder and Platform	: Yes	

Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.



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



## TEST REPORT OF STACK GAS ANALYSIS

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

Sample is drawn by M/s. Greenvision		U.L.R. No. : TC110032400000709F	
Report No.	: GV/AR/24-25/224	Sample Ref. ID	: AS-149-2024(9)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit - II)	Report Date	: 12.09.2024
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 27.08.2024
Sample Description	: Stack Air	Sample Received On	: 27.08.2024
Sampling Location	: Induction Furnace	Analysis Started On	: 28.08.2024
Sample Condition	: In GMF Thimble	Analysis Completed On	: 28.08.2024
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 12:05 pm
Testing Location	: At Laboratory		

### A. GENERAL INFORMATION ABOUT STACK

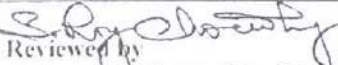
01. Particulars of plant	: SMS (Unit - 1)		
02. Stack connected to	: Induction Furnace No. 1,2,3 & 4		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 20.0	from L.D.Z (mtr)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

### B. FUEL CHARACTERISTIC REPORT

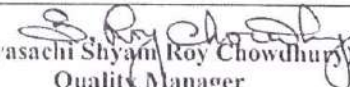
01. Type of fuel used	: Electricity		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

### C. RESULTS OF GASEOUS EMISSION SAMPLING

		Test Method
01. Flue gas temperature ( <sup>o</sup> C)	78	CPCB, Emission Regulation (Part III)
02. Barometric pressure (mm of Hg)	753.0	CPCB, Emission Regulation (Part III)
03. Velocity of flue gas (m/sec)	9.27	CPCB, Emission Regulation (Part III)
04. Quantity of gas flow (Nm <sup>3</sup> /hr.)	31741.22	CPCB, Emission Regulation (Part III)
05. Concentration of Particulate Matter (mg/ Nm <sup>3</sup> )	26.76	IS:11255 (Part 1), 1985, Reaffirmed 2014
06. Particulate Matter normalized at 12% CO <sub>2</sub>	---	IS:11255 (Part 1), 1985, Reaffirmed 2014
07. Concentration of SO <sub>2</sub> (mg/ Nm <sup>3</sup> )	---	IS:11255 (Part 2), 1985, Reaffirmed 2014
08. Concentration of CO <sub>2</sub> (% V/V)	2.8	IS:13270:1992, Reaffirmed 2014
09. Concentration of CO (% V/V)	< 0.2	IS:13270:1992, Reaffirmed 2014
Pollution Control Device	: Bag Filter	
Permanent Ladder and Platform	: Yes	

Reviewed by  
  
 (Sabyasachi Shyam Roy Chowdhury)  
 Quality Manager



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

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## **ANNEXURE – III**

**(Copy of Fugitive Emission Monitoring Report)**





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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-11003

## TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032400000714F

Report No. : GV/AR/24-25/218  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Fugitive Air  
Sampling Location : Crusher 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-149-2024(3)  
Report Date : 12.09.2024  
Date of Sampling : 26.08.2024  
Date of Receiving : 26.08.2024  
Analysis Started On : 27.08.2024  
Analysis Completed On : 27.08.2024  
Time of Sampling : 10:15 am to  
06:15 pm

### A. METROLOGICAL INFORMATION

Average Temperature (°C) : 32.0

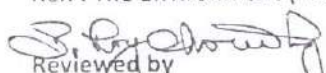
Barometric Pressure (mm of Hg) : 753.0

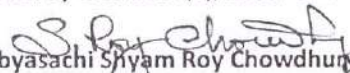
### B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m <sup>3</sup>	786.37	IS : 5182 (Part 4),1999
02.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	8.33	IS : 5182 (Part 2),2006
03.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	35.44	IS : 5182 (Part 6),2006

Limit : (µg/m<sup>3</sup>) TSPM – 2000, SO<sub>2</sub> – 80, NO<sub>2</sub> – 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



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TC-11903

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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. : TC110032400000715F

Report No. : GV/AR/24-25/220  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Fugitive Air  
Sampling Location : Loading Point  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(5)  
Report Date : 12.09.2024  
Date of Sampling : 26.08.2024 to  
27.08.2024  
Date of Receiving : 27.08.2024  
Analysis Started On : 28.08.2024  
Analysis Completed On : 29.08.2024  
Time of Sampling : 06:50 pm to  
02:50 am

### A. METROLOGICAL INFORMATION

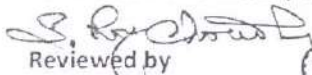
Average Temperature ( $^{\circ}\text{C}$ ) : 29.4  
Barometric Pressure (mm of Hg) : 753.0

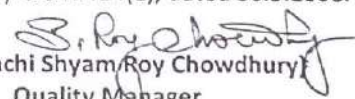
### B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	881.71	IS : 5182 (Part 4),1999
02.	Concentration of $\text{SO}_2$	$\mu\text{g}/\text{m}^3$	7.5	IS : 5182 (Part 2),2006
03.	Concentration of $\text{NO}_2$	$\mu\text{g}/\text{m}^3$	34.76	IS : 5182 (Part 6),2006

Limit : ( $\mu\text{g}/\text{m}^3$ ) TSPM – 2000,  $\text{SO}_2$  – 80,  $\text{NO}_2$  – 80

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

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager

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



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## TEST REPORT OF FUGITIVE AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100324000000716F

Report No. : GV/AR/24-25/222  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Fugitive Air  
Sampling Location : SMS - 1  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(7)  
Report Date : 12.09.2024  
Date of Sampling : 27.08.2024  
Date of Receiving : 27.08.2024  
Analysis Started On : 28.08.2024  
Analysis Completed On : 29.08.2024  
Time of Sampling : 09:35 am to  
05:35 pm

### A. METROLOGICAL INFORMATION

Average Temperature (°C) : 33.2  
Barometric Pressure (mm of Hg) : 753.0

### B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	µg/m <sup>3</sup>	633.58	IS : 5182 (Part 4),1999
02.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	9.17	IS : 5182 (Part 2),2006
03.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	36.1	IS : 5182 (Part 6),2006

Limit : (µg/m<sup>3</sup>) TSPM – 2000, SO<sub>2</sub> – 80, NO<sub>2</sub> – 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  
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3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.
- Page 1/1 End of the report.....

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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. : TC110032400000717F

Report No. : GV/AR/24-25/225  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Fugitive Air  
Sampling Location : SMS - 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-149-2024(10)  
Report Date : 12.09.2024  
Date of Sampling : 27.08.2024 to  
28.08.2024  
Date of Receiving : 28.08.2024  
Analysis Started On : 29.08.2024  
Analysis Completed On : 30.08.2024  
Time of Sampling : 06:05 pm to  
02:05 am

### A. METROLOGICAL INFORMATION

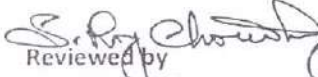
Average Temperature ( $^{\circ}\text{C}$ ) : 29.8  
Barometric Pressure (mm of Hg) : 753.0

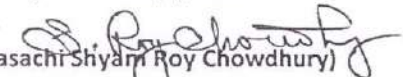
### B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	558.94	IS : 5182 (Part 4),1999
02.	Concentration of $\text{SO}_2$	$\mu\text{g}/\text{m}^3$	7.5	IS : 5182 (Part 2),2006
03.	Concentration of $\text{NO}_2$	$\mu\text{g}/\text{m}^3$	35.44	IS : 5182 (Part 6),2006

Limit : ( $\mu\text{g}/\text{m}^3$ ) TSPM – 2000,  $\text{SO}_2$  – 80,  $\text{NO}_2$  – 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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3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

**ANNEXURE – IV**  
**(Copy of AAQM Report)**





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TC-11003

## TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032400000710F

Report No. : GV/AR/24-25/216  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Ambient Air  
Sampling Location : Dendua Village  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(1)  
Report Date : 12.09.2024  
Date of Sampling : 26.08.2024 to  
27.08.2024  
Date of Receiving : 27.08.2024  
Analysis Started On : 28.08.2024  
Analysis Completed On : 29.08.2024  
Time of Sampling : 08:35 am to  
08:35 am

### A. METROLOGICAL INFORMATION

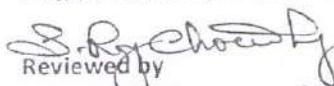
Average Temperature (°C) : 31.7  
Average Relative Humidity (%) : 84.0  
Barometric Pressure (mm of Hg) : 753.0  
Smell or Odour : No Remarkable Smell  
Weather Condition : Clear Sky

### B. RESULT OF ANALYSIS

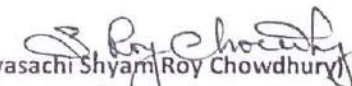
Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	72.82	IS : 5182 (Part 23),2006
02.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	37.91	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	8.33	IS : 5182 (Part 2),2006
04.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	36.76	IS : 5182 (Part 6),2006

Limit : (µg/m<sup>3</sup>) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM<sub>10</sub> (24 Hrs) : 100, PM<sub>2.5</sub> (24 Hrs) : 60, SO<sub>2</sub> (24 Hrs.) : 80, NO<sub>2</sub> (24 Hrs.) : 80

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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# GREENVISION

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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 AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100324000000711F

Report No. : GV/AR/24-25/217  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Ambient Air  
Sampling Location : Nakrajoria Village  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(2)  
Report Date : 12.09.2024  
Date of Sampling : 26.08.2024 to  
27.08.2024  
Date of Receiving : 27.08.2024  
Analysis Started On : 28.08.2024  
Analysis Completed On : 29.08.2024  
Time of Sampling : 09:20 am to  
09:20 am

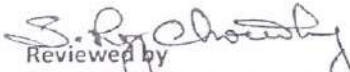
### A. METROLOGICAL INFORMATION

Average Temperature (°C) : 31.7  
Average Relative Humidity (%) : 84.0  
Barometric Pressure (mm of Hg) : 753.0  
Smell or Odour : No Remarkable Smell  
Weather Condition : Cloudy

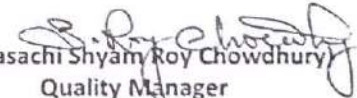
### B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	58.78	IS : 5182 (Part 23),2006
02.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	30.41	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	7.5	IS : 5182 (Part 2),2006
04.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	35.44	IS : 5182 (Part 6),2006

Limit : (µg/m<sup>3</sup>) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009  
PM<sub>10</sub> (24 Hrs) : 100, PM<sub>2.5</sub> (24 Hrs) : 60, SO<sub>2</sub> (24 Hrs.) : 80, NO<sub>2</sub> (24 Hrs.) : 80

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



  
(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 AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC1100324000000712F

Report No. : GV/AR/24-25/221  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Ambient Air  
Sampling Location : Salanpur Village  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(6)  
Report Date : 12.09.2024  
Date of Sampling : 27.08.2024 to  
28.08.2024  
Date of Receiving : 28.08.2024  
Analysis Started On : 29.08.2024  
Analysis Completed On : 30.08.2024  
Time of Sampling : 09:30 am to  
09:30 am

### A. METROLOGICAL INFORMATION

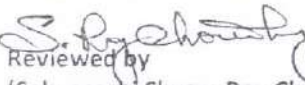
Average Temperature ( $^{\circ}\text{C}$ ) : 32.4  
Average Relative Humidity (%) : 80.0  
Barometric Pressure (mm of Hg) : 753.0  
Smell or Odour : No Remarkable Smell  
Weather Condition : Cloudy

### B. RESULT OF ANALYSIS

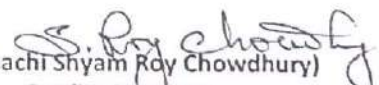
Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM <sub>10</sub>	$\mu\text{g}/\text{m}^3$	65.17	IS : 5182 (Part 23),2006
02.	Concentration of PM <sub>2.5</sub>	$\mu\text{g}/\text{m}^3$	33.33	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	8.33	IS : 5182 (Part 2),2006
04.	Concentration of NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	36.1	IS : 5182 (Part 6),2006

Limit : ( $\mu\text{g}/\text{m}^3$ ) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM<sub>10</sub> (24 Hrs) : 100, PM<sub>2.5</sub> (24 Hrs) : 60, SO<sub>2</sub> (24 Hrs.) : 80, NO<sub>2</sub> (24 Hrs.) : 80

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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# GREEN VISION



TC-11003

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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 AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

U.L.R. No. : TC110032400000713F

Report No. : GV/AR/24-25/223  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II)  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.  
Sample Description : Ambient Air  
Sampling Location : Near Plant Main Gate  
Sample Condition : In GMF Filter Paper & Plastic Bottle  
Location of Testing : At Laboratory  
Sampling Method : CPCB, Emission Regulation (Part III)

Sample Ref. ID : AS-149-2024(8)  
Report Date : 12.09.2024  
Date of Sampling : 27.08.2024 to  
28.08.2024  
Date of Receiving : 28.08.2024  
Analysis Started On : 29.08.2024  
Analysis Completed On : 30.08.2024  
Time of Sampling : 10:15 am to  
10:15 am

### A. METROLOGICAL INFORMATION

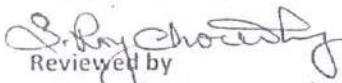
Average Temperature (°C) : 32.4  
Average Relative Humidity (%) : 80.0  
Barometric Pressure (mm of Hg) : 753.0  
Smell or Odour : No Remarkable Smell  
Weather Condition : Cloudy

### B. RESULT OF ANALYSIS

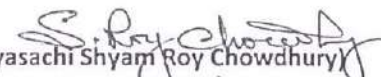
Sl. No.	Parameters	Unit	Concentration	Test Method
01.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	81.76	IS : 5182 (Part 23),2006
02.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	42.07	EPA CFR – 40 (pt 50) Appendix – 1 : 2003
03.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	9.17	IS : 5182 (Part 2),2006
04.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	37.45	IS : 5182 (Part 6),2006

Limit : (µg/m<sup>3</sup>) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM<sub>10</sub> (24 Hrs) : 100, PM<sub>2.5</sub> (24 Hrs) : 60, SO<sub>2</sub> (24 Hrs.) : 80, NO<sub>2</sub> (24 Hrs.) : 80

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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## **ANNEXURE – V**

**(Copy of CREP for the Existing Production Unit)**





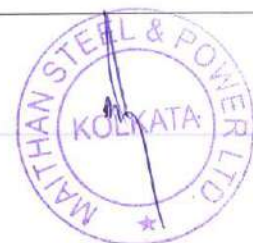
## MAITHAN STEEL & POWER LTD (Unit II)

### CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION (CREP)

Sr. No.	Action points for Integrated Iron & Steel Industry	Action Plan
1.	<p><b>Steel Melting Shop</b></p> <p>Fugitive emissions– To reduce 30% by March, 2004 and 100% by March, 2008 (including installation of secondary Dedusting facilities).</p>	<p>To mitigate the fugitive emission movable water tanker &amp; fixed water sprinklers have been used inside the plant premises and dedicated manpower is continuously engaged to control the fugitive emission inside the plant premises.</p> <p>Fugitive Emissions are monitored Near Raw Material Shed Raw Material Shed, Near SMS Area, Near Rolling Mill Area, Gate No-1 &amp; Gate No-2 by third party monitoring agency which is NABL accredited laboratory. As per the fugitive emission monitoring reports submitted, fugitive emissions were monitored in the month of September, 2024</p>
2.	<p><b>Solid Waste/ Hazardous Waste Management</b></p> <p>Utilization of Steel Melting shop (SMS)/ Blast Furnace (BF) Slag as per the following schedule:</p> <ul style="list-style-type: none"> <li>◆ By 2004– 70%</li> <li>◆ By 2006– 80% and</li> <li>◆ By 2007– 100%</li> </ul> <p><b>Hazardous Wastes</b></p> <p>Inventorization of the Hazardous waste as per Hazardous Waste (M&amp;H). Rules, 1989 as amended in 2000 and implementation of the Rules by Dec. 2003. (tar sludge, acid sludge, waste Lubricating oil and type fuel falls in the category of Hazardous waste).</p>	<ul style="list-style-type: none"> <li>◆ SMS Slag, scales and dust collected in bag filter forms the solid waste. SMS Slag is given for metal recovery and then it can be replaced 30% concrete aggregate &amp; landfill after iron recovery. For the proposed expansion of Steel Melting Shop, same practice will be adopted in future.</li> <li>◆ Mill scales/ end cuts, rolling Mill scrap &amp; missed roll will be generated from the rolling mill. Mill scales will be reused in SMS plant.</li> </ul> <p>Hazardous Waste Authorization certificate is obtained from concerned department of WBPCB. Authorization memo no: 10/2S (HW)- 4406/ 2020 dated 28.01.2021, which is valid up to 30.10.2025.</p> <p>Used oil is sold to WBPCB authorized recycler (Here, i.e., BA.MA oil industries) and cotton waste/ Jute containing oil is sent CHWTSDF (Here, i.e. West Bengal Waste Management Limited) and it has been also mentioned in the submitted Hazardous Waste annual return (Form IV for the 2021-22 financial year) to the West Bengal Pollution Control Board through online portal vide Return No. 939057 for the period 2020-21, 2313765 for 2021-22, 3905359 for 2022-23 and 5604315 2023-24 financial year. The same will be submitted to WBPCB for the FY 2024-25 .</p>
3.	<p><b>Water Conservation/ Water Pollution</b></p> <p>To reduce specific water consumption to 5 m<sup>3</sup>/t for long products and 8 m<sup>3</sup>/t for flat products by December 2005.</p>	<ul style="list-style-type: none"> <li>▪ The plant is completely based on 'Zero Liquid Discharge'.</li> <li>▪ <b>Steel Melting Shop:</b> Steel making through Induction Furnace and billet casting is dry process where no water is consumed in process. Only non-contact cooling water is required to maintain the desired temperature of furnace shell, casting shell and moulds. Make-up water is being/ will be added to cooling tower to compensate for evaporation loss. The lubricant is skimmed from the settling tank periodically and sold to authorized recyclers. The water is being/ will be allowed to return to ambient temperature and reused for cooling purpose. Only make-up water is added. For the proposed expansion of Steel Melting Shop, same practice will be adopted in future.</li> </ul>



		<ul style="list-style-type: none"> <li>▪ <b>Rolling Mill:</b> Direct circulating cooling water used in rolling mill is contaminated with scales and traces of oil. Mill scales from Rolling Mill will be carried away with the flowing water to the settling tank. It will be collected by EOT crane periodically and taken to SMS plant for reuse. End cuts from Rolling Mill are reused in IF. The lubricant is skimmed from the settling tank periodically and sold to authorized recyclers. The water is allowed to return to ambient temperature and reused for cooling purpose. Only make-up water is added. For the proposed expansion of Rolling Mill, same practice will be adopted in future.</li> <li>▪ <b>Cold Drawing Workshop:</b> Water is not required in the process or for cooling purpose in Cold Drawing Workshop.</li> <li>▪ <b>Slag Crushing Unit:</b> Treated water from STP will be used for dust suppression to control the fugitive emission.</li> <li>▪ The CT blow down along with all other primary treated wastewater streams with high TDS levels are being/ will be used for road dust suppression.</li> <li>▪ Domestic waste water is being reused for developing greenbelt and dust suppression system after treatment in the Sewage Treatment Plant (Capacity 100 KLD).</li> <li>▪ Continuous attempt is being made to optimize/ reduce the use of water through monitoring, reuse, recycle practices.</li> <li>▪ Record of water consumption on daily basis will be maintained as per present practice.</li> </ul>
4.	Installation of Continuous stacks monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June, 2005.	The Online Continuous Emission Monitoring System (OCEMS) is installed with the process stack connected with currently operational 4x15T IF & 3x20T IF as per CPCB guidelines and the 24x7 online data is transferred to CPCB server through online portal.
5.	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB/ SPCB every three months.	<ul style="list-style-type: none"> <li>▪ The Online Continuous Emission Monitoring System (OCEMS) is installed with the process stack connected with currently operational 4x15T IF &amp; 3x20T IF as per CPCB guidelines and the 24x7 online data is transferred to CPCB server through online portal. The OCEMS data for the six monthly period (April, 2024 to September, 2024) is submitted to West Bengal Pollution Control Board, Central Pollution Control Board &amp; Regional Office of MoEF&amp;CC, New Delhi.</li> </ul>
6	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEFCC by December, 2003.	Life Cycle Assessment (LCA) study is implemented for the existing plant and the same will be done for the proposed plant.
7.	The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and environment.	



De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points.	Existing SMS are equipped with bag filters, hood and ID Fans. All bag houses are design to meet the standard below prescribed limit and an adequate dust suppression is provided in material storage sheds, material unloading and transfer points for controlling fugitive emission and the dust from APC devices are collected and reused in the process.
To study the possibility of slag and fly ash transportation back to the abandoned mines, to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.	SMS Slag is given for metal recovery and then it can be replaced 30% concrete aggregate & landfill after iron recovery. For the proposed expansion of Steel Melting Shop, same practice will be adopted in future.  Fly ash is not generated from this plant.
Processing of the waste containing flux & ferrous wastes through waste recycling plant.	Not Applicable Here
To implement rainwater harvesting	Rain water harvesting system is being implemented. The rain water is being collected in the roof top catchment area and stored in reservoir.
<b>Reduction Green House Gases by:</b>	
Reduction in power consumption	Agreed
Use of by-products gases for power generation	Not Applicable Here
Promotion of Energy Optimization technology Including energy/ audit	Noted
To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.	Already complied with the International standards.
Up-gradation in the monitoring and analysis facilities for air and water pollution. Also, to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.	Already complied
To Improve overall housekeeping.	Noted



## **ANNEXURE – VI**

**(Copy of Ground Water Monitoring Report)**





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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

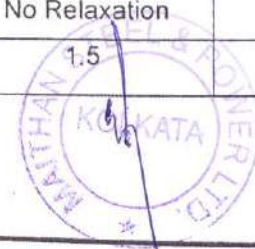


## TEST REPORT OF WATER ANALYSIS

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

Sample is drawn by	: Vikas Ram of M/s. Greenvision	U.L.R. No.	: TC11003240000007
Sample identification	: Nil	Laboratory Ref. No.	: GS-020-2024
Report No.	: GV/GW/24-25/044	Report Date	: 12.09.2024
Issued To	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Date of Sampling	: 27.08.2024
Address	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Sample Received on	: 27.08.2024
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Started on	: 28.08.2024
Sample Description	: Ground Water	Analysis Completed on	: 04.09.2024
Sampling Method	: APHA 24 <sup>th</sup> EDITION, 1060	Time of Sampling	: 03:15 pm
Location	: Tube Well at Salanpur Village	Testing Location	: At Laboratory

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24 <sup>th</sup> EDITION ]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	6.8	6.5 to 8.5	No Relaxation	4500-H <sup>+</sup> 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.	0.44	1	5	2130 B
6.	Conductivity	µS/cm	584.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	420.0	500	2000	2540 C
8.	Total Hardness as CaCO <sub>3</sub>	mg/L	174.6	200	600	2340 C
9.	Chloride as Cl	mg/L	29.56	250	1000	4500Cl <sup>-</sup> B
10.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	130.0	200	600	2320 B
11.	Sulfate as SO <sub>4</sub>	mg/L	38.82	200	400	4500 SO <sub>4</sub> <sup>2-</sup> E
12.	Nitrate as NO <sub>3</sub> <sup>-</sup>	mg/L	3.8	45.0	No Relaxation	4500 NO <sub>3</sub> <sup>-</sup>
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD





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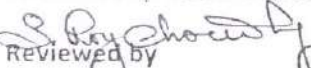
Recognized by West Bengal Pollution Control Board


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

14.	Calcium as Ca	mg/L	16.59	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	32.37	30	100	3500- Mg B
16.	Iron as Fe	mg/L	0.17	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager

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



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## **ANNEXURE – VII**

**(Copy of STP Effluent Water Analysis Report)**





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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



## TEST REPORT OF WATER ANALYSIS

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

Sample is drawn by M/s. Greenvision

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

U.L.R. No. : TC110032400000956F

Report No. : GV/WW/24-25/115

Sample Ref. ID : WS-109-2024(1)

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

Report Date : 06.11.2024

Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur,  
Dist. : Paschim Bardhaman, Pin : 713357.

Date of Sampling : 30.10.2024

Sample Description : Waste Water

Date of Receiving : 30.10.2024

Sampling Location : STP Inlet

Analysis Started on : 31.10.2024

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 04.11.2024

Type of Sample : Industrial Waste Water

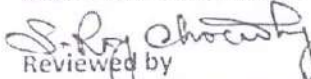
Time of Sampling : --

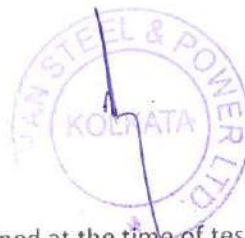
Testing Location : At Laboratory

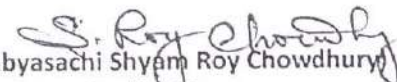
Sampling & Preservation Method : APHA 23rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
pH	APHA 23rd EDITION, 4500-H+B	---	7.86	6.5-8.5
Total Suspended Solid(TSS)	APHA 23rd EDITION, 2540 D	mg/l	58.0	< 100.0
Chemical Oxygen Demand (COD)	APHA 23rd EDITION, 5220 B	mg/l	117.6	< 250.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	32.0	< 30.0
Oil & Grease	APHA 23rd EDITION, 5520 A	mg/l	3.42	< 10.0
Fecal Coliform	APHA 24 <sup>th</sup> EDITION, 9221 D	MPN/100 ml	11 X 10 <sup>3</sup>	< 1000.0

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

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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TC-11003

## TEST REPORT OF WATER ANALYSIS

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

Sample is drawn by M/s. Greenvision

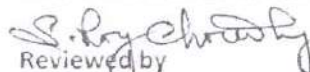
Sample submitted and identified by customer as : N.A.

U.L.R. No. : TC110032400000957F


Report No.	: GV/WW/24-25/116	Sample Ref. ID	: WS-109-2024(2)
Name of Customer	: M/s. Maithan Steel & Power Ltd. (Unit – II)	Report Date	: 06.11.2024
Address of Customer	: Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357.	Date of Sampling	: 30.10.2024
Sample Description	: Waste Water	Date of Receiving	: 30.10.2024
Sampling Location	: STP Outlet	Analysis Started on	: 31.10.2024
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Completed on	: 04.11.2024
Type of Sample	: Industrial Waste Water	Time of Sampling	: --
Testing Location	: At Laboratory		
Sampling & Preservation Method	: APHA 23rd EDITION, 1060		

PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
pH	APHA 23rd EDITION, 4500-H+B	---	6.81	6.5-8.5
Total Suspended Solid(TSS)	APHA 23rd EDITION, 2540 D	mg/l	32.0	< 100.0
Chemical Oxygen Demand (COD)	APHA 23rd EDITION, 5220 B	mg/l	78.4	< 250.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	18.35	< 30.0
Oil & Grease	APHA 23rd EDITION, 5520 A	mg/l	2.98	< 10.0
Fecal Coliform	APHA 24 <sup>th</sup> EDITION, 9221 D	MPN/100 ml	3 X 10 <sup>2</sup>	< 1000.0

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

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager



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

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## **ANNEXURE – VIII**

**(Copy of Drinking Water Quality Analysis Report)**





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## TEST REPORT OF WATER ANALYSIS

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

Sample is drawn by : Vikas Ram of M/s. Greenvision U.L.R. No. : TC110032400000072  
Sample identification : Nil Laboratory Ref. No. : DS-029-2024  
Report No. : GV/DW/24-25/046 Report Date : 12.09.2024  
Issued To : M/s. Maithan Steel & Power Ltd. (Unit – II) Date of Sampling : 27.08.2024  
Address : Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357. Sample Received on : 27.08.2024  
Analysis Started on : 28.08.2024  
Sample Condition : In Glass Bottle & Plastic Bottle Analysis Completed on : 04.09.2024  
Sample Description : Drinking Water Time of Sampling : 05:15 pm  
Sampling Method : APHA 24<sup>th</sup> EDITION, 1060 Testing Location : At Laboratory  
Location : Canteen Tap

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 24 <sup>th</sup> EDITION ]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	7.04	6.5 to 8.5	No Relaxation	4500-H <sup>+</sup> 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.	0.36	1	5	2130 B
6.	Conductivity	µS/cm	104.5	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	92.8	500	2000	2540 C
8.	Total Hardness as CaCO <sub>3</sub>	mg/L	64.0	200	600	2340 C
9.	Chloride as Cl	mg/L	5.91	250	1000	4500Cl <sup>-</sup> B
10.	Total Alkalinity as CaCO <sub>3</sub>	mg/L	18.0	200	600	2320 B
11.	Sulfate as SO <sub>4</sub>	mg/L	12.29	200	400	4500 SO <sub>4</sub> <sup>2-</sup> E
12.	Nitrate as NO <sub>3</sub> <sup>-</sup>	mg/L	1.4	45.0	No Relaxation	4500 NO <sub>3</sub> <sup>-</sup>
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD

Page 1/2



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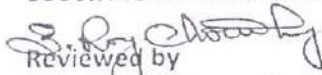
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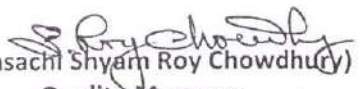
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14.	Calcium as Ca	mg/L	15.39	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	6.22	30	100	3500- Mg B
16.	Iron as Fe	mg/L	BDL	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager

  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager  
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## **ANNEXURE – IX**

**(Copy of Ambient & Workzone Noise Quality Monitoring Report )**





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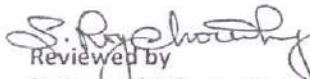



## TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC110032400000718F  
Report No. : GV/NL/24-25/035 Sample Ref. ID : NLM-031-2024(1)  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II) Report Date : 12.09.2024  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357. Date of Sampling : 26.08.2024  
Sample Description : Noise Level Total Time : 1 Hr.  
Sampling Location : Salanpur Village Sampling Method : IS : 9989 :1981  
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 (09:10 Hrs to 10:10 Hrs.)			Night Time (22:18 Hrs. to 23:18 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
56.5	47.8	53.2	46.8	40.7	44.1

  
Reviewed by  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager

  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager  
Authorised Signatory  
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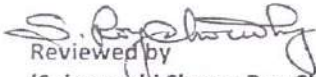
Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216  
Contact : 0343-2543019, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

## TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC110032400000719F  
Report No. : GV/NL/24-25/036 Sample Ref. ID : NLM-031-2024(2)  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II) Report Date : 12.09.2024  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357. Date of Sampling : 26.08.2024 & 27.08.2024  
Sample Description : Noise Level Total Time : 1 Hr.  
Sampling Location : Dendua Village Sampling Method : IS : 9989 :1981  
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 (10:45 Hrs to 11:45 Hrs.)			Night Time (23:32 Hrs. to 00:32 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
53.2	45.8	50.7	45.3	38.7	42.4

  
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(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager

  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager  
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## TEST REPORT OF NOISE LEVEL MONITORING

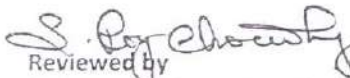
FORMAT NO. : GV/LAB/FM/33N


Sample is drawn by : M/s. Greenvision U.L.R. No. : TC110032400000720F  
Report No. : GV/NL/24-25/037 Sample Ref. ID : NLM-031-2024(3)  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II) Report Date : 12.09.2024  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur, Dist. : Paschim Bardhaman, Pin : 713357. Date of Sampling : 26.08.2024 & 27.08.2024  
Sample Description : Noise Level Total Time : 1 Hr.  
Sampling Location : Nakrajoria Village Sampling Method : IS : 9989 :1981  
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 (12:14 Hrs to 13:14 Hrs.)			Night Time (01:02 Hrs. to 02:02 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
56.2	47.8	53.3	47.3	41.7	44.8

  
Reviewed by  
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Quality Manager

  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager  
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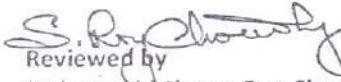


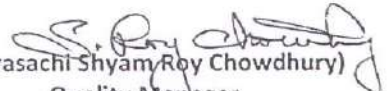
## TEST REPORT OF NOISE LEVEL MONITORING

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

Sample is drawn by : M/s. Greenvision U.L.R. No. : TC110032400000721F  
Report No. : GV/NL/24-25/038 Sample Ref. ID : NLM-031-2024(4)  
Name of Customer : M/s. Maithan Steel & Power Ltd. (Unit – II) Report Date : 12.09.2024  
Address of Customer : Chittaranjan Road, P.O. + P.S. : Salanpur, Date of Sampling : 26.08.2024 & 27.08.2024  
Dist. : Paschim Bardhaman, Pin : 713357. Total Time : 1 Hr.  
Sample Description : Noise Level Sampling Method : IS : 9989 :1981  
Sampling Location : Near Plant Main Gate  
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 (15:02 Hrs to 16:02 Hrs.)			Night Time (02:38 Hrs. to 03:38 Hrs.)		
Max.	Min.	Leq.	Max.	Min.	Leq.
69.5	60.2	64.4	57.2	50.5	53.2

  
Reviewed by  
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Quality Manager

  
(Sabyasachi Shyam Roy Chowdhury)  
Quality Manager  
Authorised Signatory  
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## **ANNEXURE – X**

**(Copy of Heat Stress Analysis Report )**



**Heat Stress Analysis Report**

Date : 24.09.2024

Sl. NO.	NAME	Date of Birth (DD/MM/YY)	DESIGNATION	DEPARTMENT	SEX (M/F)	WEIGHT (KGS)	HEIGHT (Ft)	BMI TYPE	Blood Group	Chest	Pulse Rate Before (BP/Min)	Pulse Rate After (BP/Min)	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)	Respiratory Time	SPO2 LEVEL (%)	Ane mia	Result (Fit/Unfit)	Remarks
1	Charanmender Kumar	13.06.1989	Sr Filter	SMS_1	M	69	5.6	NORMAL	B+	Clear	92	95	4	97	97.2	0.2	120/80	120/80	0/0	14	98%	Nil	Fit	
2	Anubhav Kumar	01.02.1996	Jr. Engineer	SMS_2	M	69	5.8	NORMAL	O+	Clear	83	94	11	97.1	96.3	-0.8	115/75	120/80	5/5	14	98%	Nil	Fit	
3	Bhayan Kumar	12.03.1997	Jr. Filter	SMS_2	M	54	5.6	NORMAL	A+	Clear	76	94	18	95.8	97.1	1.3	120/80	120/80	0/0	14	98%	Nil	Fit	
4	Guddan Kumar Yadav	10.03.1991	Welder	SMS_2	M	61	5.5	NORMAL	A+	Clear	70	95	25	99	96	-3	100/68	110/70	10/2	14	98%	Nil	Fit	Low BP
5	Partha Nalabato	02.04.1991	Helper	SMS_1	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	Sahab Deen Mansuri	20.10.1995	Helper	SMS_1	M	79	5.8	OVER WEIGHT	O+	Clear	76	92	16	98.4	97.8	1.4	110/76	117/78	7/2	14	97%	Nil	Fit	
7	Birendra Kumar Raj	25.12.1982	Welder	SMS_1	M	75	5.4	OVER WEIGHT	O+	Clear	70	85	15	97.6	98	0.4	120/78	120/80	0/0	14	98%	Nil	Fit	
8	Saikat Samanta	22.05.1998	Engineer (Mech.)	SMS_2	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	Md. Ashit Rayeen	14.02.2000	Welder	SMS_2	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	Chandrama Yadav	01.01.2001	Helper	SMS_2	M	62	5.5	NORMAL	A+	Clear	86	88	2	95.1	96.2	1.1	118/78	120/82	2/4	14	98%	Nil	Fit	
11	Vijay Shankar	15.10.1990	Filter	SMS_1	M	70	5.5	NORMAL	AB+	Clear	87	93	6	97.3	99.3		120/80	120/80	2/3	14	98%	Nil	Fit	

  
**DR. K. K. SHARMA**  
 Regd. Medical Practitioner



# Heat Stress Analysis Report

Date : 24.09.2024

ID	Name	Date of Birth	Job Title	Shift	Gender	Height (cm)	Weight (kg)	Body Mass Index (BMI)	Heart Rate (b/min)	BP (S/D)	HR (%)	HR	Low BP
12	Pappu Kumar Das	02.01.1994	Welder	SMS_2	M	171	74	25.2	97.6	115/76	99%	Fit	Low BP
13	Abhinav Goswami	24.03.1982	Rolling Mill Operator	Rolling Mill_2	M	174	86	27.6	94.7	124/82	98%	Fit	
14	Jayraj Kumar Mondal	23/10/2000	DLI	Substation	M	172	90	30.8	97.8	122/80	96%	Fit	
15	Karthik Lal Hovary	21/01/1992	Electrician	SMS_2	M	165	80	23.6	97.6	120/80	97%	Fit	
16	Arup Mondal	15/3/1994	Junior Engineer	SMS_2	M	174	87	28.7	95.4	118/78	98%	Fit	
17	Raj Bolla	18.10.1977	Helper	Rolling Mill_1	M	162	70	21.0	97.8	118/78	98%	Fit	Low BP
18	Ranjit Kumar Singh	15.05.1990	Fitter	Rolling Mill_2	M	176	88	27.9	97.2	120/80	93%	Fit	
19	Dharmraj Ghosh	1986	Helper	Rolling Mill_1	M	170	94	31.8	98	124/82	99%	Fit	
20	Rupesh Kumar	1992	Fitter	Rolling Mill_2	M	173	94	31.2	94.7	120/80	99%	Fit	
21	Gouranga Mahato	03.06.1991	Jr. Electrician	SMS_2	M	171	94	31.6	97.3	110/70	96%	Fit	Low BP
22	Rupesh Gope	30.08.2001	Welder	SMS_2	M	163	88	26.4	95.7	124/82	98%	Fit	
23	Manjiv Kumar	15.08.1998	Welder	SMS_2	M	170	96	32.7	96.3	120/80	99%	Fit	
24	Birbal Mahato	15.08.1998	Welder	SMS_2	M	171	103	36.8	96.9	122/82	98%	Fit	
25	Rohit Kumar	15.01.1989	Assistant Engineer	SMS_1	M	159	70	27.7	95.8	118/78	97%	Fit	
26	Krishna Ram	18.12.1996	Electrician	Rolling Mill_1	M	163	94	35.6	98.8	105/65	98%	Fit	Low BP

**DR. R. K. SHARMA**
  
 Regd. Medical Practitioner
   
 Reg. No. N/15415

# Heat Stress Analysis Report

Date : 24.09.2024

27	Arnab Jhawar	03.04.1993	Junior Engineer	SMS_1	M	72	5.6	NORMAL	A	Clear	82	88	6	95.8	99	3.2	118/78	120/78	2/0	14	98%	Nil	Nil	Fit	
28	Sanjay Kumar Jha	12.10.1974	Assistant Engineer	SMS_1	M	58	5.4	NORMAL	B+	Mild cough	83	90	7	96.2	98.6	2.4	116/78	118/78	2/0	16	97%	Nil	Nil	Fit	
29	Prem Chand Kumar	12.02.1991	Jr. Fitter	SMS_2	M	68	5.2	OVER WEIGHT	O+	Clear	73	85	12	95.8	97.2	1.4	120/80	118/78	-2/2	14	95%	Nil	Nil	Fit	
30	Sojal Ray	01.05.1994	Welder	SMS_2	M	48	5.6	UNDER WEIGHT	A+	Clear	87	90	3	95.1	97.2	2.1	110/70	110/68	0/-2	14	95%	Nil	Nil	Fit	Low BP
31	Nikhil Ray	01.08.1985	Welder	SMS_2	M	58	5.7	NORMAL	A+	Clear	66	70	4	94.8	96.3	1.5	110/70	118/78	8/8	14	98%	Nil	Nil	Fit	Low BP
32	Uday Prakash Sharma	20.04.1993	Traineee Lch.	SMS_1	M	58	5.5	NORMAL	O+	Clear	92	94	2	97.8	97.1	-0.7	110/75	118/76	8/1	14	99%	Nil	Nil	Fit	
33	Kiran Sarkar	01.02.1975	Welder	SMS_2	M	78	5.7	OVER WEIGHT	O+	Clear	91	92	1	97.3	99.3	2	120/80	120/80	0/0	14	98%	Nil	Nil	Fit	
34	Rajiv Kumar Viswakarma	10.02.1995	Turner	SMS_1	M	69	5.5	NORMAL	A	Clear	71	72	1	97.3	97.3	0	114/75	118/75	4/0	14	99%	Nil	Nil	Fit	
35	Gouram Kumar	01.01.1990	St. Fitter	SMS_1	M	76	5.8	NORMAL	A+	Clear	80	84	4	95.6	99	3.4	120/80	122/82	2/2	14	98%	Nil	Nil	Fit	
36	Manas Dutta	29.07.1988	Jr. Fitter	SMS_1	M	64	5.7	NORMAL	B+	Clear	85	84	1	98.2	96.2	-2	110/70	117/76	7/6	14	97%	Nil	Nil	Fit	Low BP
37	Niraj Kumar	02.02.2002	Helper	Rolling Mill_2	M	66	5.11	OVER WEIGHT	A+	Clear	70	79	9	96.5	96.7	0.2	116/78	118/78	2/0	14	95%	Nil	Nil	Fit	Cont-Manoj Yadav.
38	Biswa Mahon Singh	2/10/1986	Shift Incharge	Rolling Mill_2	M	73	5.3	OVER WEIGHT	O+	Clear	86	94	8	95.8	97.8	2	120/80	120/80	0/0	14	98%	Nil	Nil	Fit	
39	Akhay Dutta	15.04.1996	AC Technician helper	Electrical	M	48	5.8	UNDER WEIGHT		Clear	91	92	1	96.5	96.5	0	110/70	110/70	0/0	14	98%	Nil	Nil	Fit	Cont-Binod Ram.
40	Ashok Das	14.06.1981	Shift Incharge	Rolling Mill_1	M	60	5.5	NORMAL	O+	Clear	85	90	5	94.5	98.2	3.7	116/78	120/78	4/0						
41	Dinesh Mondal	13.02.1995	Asst Engineer	Rolling Mill_1	M	74	5.8	NORMAL	B+	Clear	65	70	5	96.2	96.1	-0.1	120/80	122/80	2/0						

**DR. V. S. SHARMA**  
 Regd. Medical Practitioner  
 Regd. No. - 5415  
 Nil

## Heat Stress Analysis Report

Date: 24.09.2024

Sl. No.	Name	DOB	Job Title	Rolling Mill	Sex	Age	Weight (kg)	Height (cm)	Body Mass Index (BMI)	Waist Circumference (cm)	Waist-Hip Ratio	Heart Rate (b/min)	SBP (mmHg)	DBP (mmHg)	HRV (ms)	ECG	Respiratory	Visual	Hearing	Balance	Reflex	Stress Level	Overall Health	Remarks	Cont. Manoj Yadav.
42	Nishu Mondal	12.2.1986	Electrician	Rolling Mill_1	M	65	53.0	165	19.4	84	0.94	94	94	0	91.2	98.1	5.9	118/78	119/78	1/0	14	98%	Nil	Fit	
43	Nay Mondal	25.04.1995	NC Technician	All	M	30	3.0	150	13.3	82	91	12	96.5	95.7	0.1	120/80	120/80	0/0	14	98%	Nil	Fit			
44	Sofyal Chatterjee	25.07.1982	Sr. Fitter	CCML_2	M	62	5.8	162	20.2	92	94	2	98.2	98.1	-0.1	124/80	124/80	0/-2	14	98%	Nil	Fit			
45	Rajesh Kumar Choudhury	04.05.1975	Sr. Electrician	CCML_1	M	74	5.11	174	24.1	101	95	-6	94.3	95.1	0.8	115/75	118/78	3/3	14	95%	Nil	Fit			
46	Ashish Malhotra	15.01.1993	GFT	CCML_2	M	87	5.9	187	26.9	90	92	2	95.2	98	0.8	116/76	120/80	4/4	14	99%	Nil	Fit			
47	Premchand Kumar	07.06.1991	Shift Incharge	CCML_2	M	66	5.7	166	21.7	84	87	3	94.8	96.3	1.5	122/80	120/80	-2/0	14	98%	Nil	Fit			
48	Manna Bihar Yadav	15.09.1996	Pulpit Operator	Rolling Mill_1	M	60	5.9	160	21.9	74	80	6	94.2	97	2.8	115/75	120/80	3/5	14	98%	Nil	Fit			
49	Niraj Kumar	02.02.2002	Helper	Rolling Mill_2	M	66	5.11	166	21.7	70	79	9	96.5	96.7	0.2	116/78	118/78	2/0	14	95%	Nil	Fit		Cont. Manoj Yadav.	
50	Raju Prasad	02.02.1980	CNC Operator	Workshop	M	73	5.6	173	26.6	68	72	4	95.4	96.5	1.1	120/78	118/78	-2/0	14	99%	Nil	Fit			
51	Amrit Kumar Singh	07.11.1989	Fitter	Rolling Mill_2	M	76.5	5.5	176.5	24.5	110	91	-16	98.1	97.8	-0.3	120/80	120/80	0/0	14	98%	Nil	Fit			
52	Divanika Prasad	01.07.1998	Helper	Rolling Mill_2	M	49	5.3	149	20.3	68	80	12	96.8	97.2	0.4	115/76	117/76	2/0	14	98%	Nil	Fit			
53	Dilip Kumar	11.01.1995	Fitter	Rolling Mill_2	M	98	5.9	198	26.9	84	96	12	94.5	98	3.5	120/80	120/80	0/0	14	97%	Nil	Fit			
54	Pawan Lohar	01.04.1990	Fitter	Rolling Mill_1	M	73	5.5	173	24.5	92	94	2	97.6	98	0.4	120/80	122/82	2/2	14	98%	Nil	Fit			
55	Goutam Kumar	20.01.1999	GFT	Rolling Mill_1	M	71	5.5	171	23.5	100	92	7	97.3	98.1	0.8	122/80	120/80	-2/0	14	98%	Nil	Fit			
56	Narosh Yadav		Helper	Rolling Mill_2	M	62	5.5	162	23.5	85	95	10	97.3	97.9	0.6	118/78	120/80	2/2	14	98%	Nil	Fit			

**DR. R. K. SHARMA**  
 Regd. Medical Practitioner  
 No. 5415  
 Fit

# Heat Stress Analysis Report

Date : 24.09.2024


57	Tammy Rishi	24.07.1995	DET	Rolling Mill_1	M	64	5.8	NORMAL	O+	Clear	88	94	6	97.2	98	0.8	118/76	120/78	2/2	14	95%	Nil	Fit
58	Somnath Das	05.05.1998	Sr. Engineer	SMS_1	M	80	5.7	OVER WEIGHT	O+	Clear	94	96	2	97.3	96	1.3	118/76	120/78	2/2	14	97%	Nil	Fit
59	Dharmaj Kumar Ray	27.02.1998	Fitter	SMS_2	M	50	5.2	NORMAL	O+	Clear	80	88	8	97.6	98.5	0.9	110/70	118/76	8/6	14	98%	Nil	Fit
60	Sudam Kumar Mahabo	04.01.1973	Sr Fitter	SMS_2	M	68	5.6	NORMAL	O+	Clear	78	80	2	94.3	95	0.7	115/78	118/78	3/0	14	97%	Nil	Fit
61	Jaypratap Singh	02.02.1989	Welder	SMS_2	M	68	5.3	OVER WEIGHT	B+	Clear	107	96	-11	94.9	90.2	4.3	120/80	120/80	0/0	14	97%	Nil	Fit
61	Aslam Ansari	05.05.1980	Sr Fitter	SMS_2	M	61	5.2	NORMAL	A+	Clear	81	84	3	96.7	95.1	-1.6	120/80	120/80	0/0	14	98%	Nil	Fit
61	Anu Kumar Yadav	06.10.1997	Jr Fitter	SMS_2	M	64	5.1	OVER WEIGHT	AB+	Clear	72	80	8	94.1	94.8	0.7	118/76	120/80	2/4	14	99%	Nil	Fit
67	Indrajit Banerjee	03.03.2001	DET	Rolling Mill_1	M	56	5.5	NORMAL	O-	Clear	74	92	18	95	98.2	3.2	115/75	120/80	5/3	14	90%	Nil	Fit
68	Satradhan Kumar Singh	13.06.1984	Pulpit Operator	Rolling Mill_1	M	57	5	NORMAL	O+	Clear	79	80	1	97.3	95.1	2.2	122/82	118/78	-4/-4	14	98%	Nil	Fit
69	Chittaranjan Gorai	26.02.2001	DET	Rolling Mill_1	M	49	5.3	NORMAL	O+	Clear	84	95	11	95.6	94.8	-0.8	115/75	118/76	3/1	14	9600%	Nil	Fit
70	Subhoendu Ghosh	28.09.1995	Asst. Engineer	SMS_1	M	48	5.2	NORMAL	A+	Clear	74	94	20	98.2	97.8	-0.4	115/75	118/78	3/3	14	98%	Nil	Fit
71	Bajrangji Kumar	01.01.2005	Helper	Rolling Mill_1	M	53	5.3	NORMAL	AB+	Clear	78	86	8	94.5	99.1	4.6	118/78	122/80	4/2	14	98%	Nil	Fit
72	Mahesh Kumar	12.10.1996	Jr. Fitter	Rolling Mill_1	M	51	5.1	NORMAL	AB+	Clear	76	80	4	95.3	97.6	2.3	115/76	119/78	4/2	14	97%	Nil	Fit
73	Umesh Kumar Sharma	01.02.1990	Fitter	Rolling Mill_1	M	77	5.5	OVER WEIGHT	O+	Clear	94	94	0	97.2	98.2	1	120/80	120/80	0/0	14	99%	Nil	Fit
74	Rajesh Sharma	10.03.1991	Fitter	Rolling Mill_1	M	56	5.3	NORMAL	O+	Clear	84	87	3	96	97.5	1.5	118/80	120/80	2/0	14	99%	Nil	Fit

  
**DR. UMESH SHARMA**  
 Regd. Medical Practitioner  
 Regd. No. - 5415  
 Nil



# Heat Stress Analysis Report

Date : 24.09.2024

75	Asish Kumar Koley	21.07.1999	Jr. Engg.	CCML_2	M	62	5.4	NORMAL	B+	Clear	98	61	-4	94.8	97.1	2.3	122/80	122/80	0/0	14	99%	NH	FR
76	Prithvish Kumar	29.04.1998	Asst Engg.	CCM_2	M	42	5.1	UNDER WEIGHT	O+	Clear	86	90	1	90.1	97.2	-1.9	119/78	119/78	2/2	14	98%	NH	FR
77	Paiba Royen	05.02.2000	Junior Engineer	SMS_1	M	64	5.55	NORMAL	O+	Clear	73	77	4	95.8	96.3	0.5	117/76	117/76	1/0	14	97%	NH	FR
78	Anand Nath Kumar	15.04.1997	Shift In-charge	CCML_2	M	80	5.7	OVER WEIGHT	A+	Clear	70	90	20	96.7	98.6	1.9	120/80	120/80	0/0	14	97%	NH	FR
79	Ajit Kumar	08.03.1992	Hr. Foreman	CCML_1	M	57	5.8	UNDER WEIGHT	B+	Clear	68	75	7	97.1	98	0.9	118/78	120/80	2/2	14	98%	NH	FR
80	Ram Manohar Kushwaha	28.12.1990	Asst. Manager	CCML_1	M	76	5.3	OVER WEIGHT	A+	Clear	73	80	7	94.1	95.5	1.4	115/75	118/75	3/1	14	97%	NH	FR
81	Raj Kumar Barnawal	01.02.1987	Jr. Engg.	CCML_1	M	71.9	5.6	NORMAL	B+	Clear	92	90	-2	94	94.5	0.5	119/76	120/78	4/2	14	98%	NH	FR
82	Prasanta Gomi	19.01.2002	DET	CCML_1	M	68	5.7	NORMAL	B+	Clear	84	84	0	97.2	97.3	0.1	118/78	118/80	0/2	14	99%	NH	FR
83	Raj Kumar Pandri	31.03.1996	GET	Rolling Mill_2	M	75	5.7	NORMAL	O+	Clear	110	96	-14	93.8	95	1.2	120/80	120/80	0/0	14	98%	NH	FR
84	Mithun Kumbhakar	5/3/1994	Junior Engineer	SMS_2	M	66	5.4	NORMAL	O+	Clear	74	80	6	98.1	98.2	0.1	116/75	120/80	4/5	14	99%	NH	FR
85	Rajesh Kumar	07.07.1993	Electrician	SMS_2	M	64	5.1	OVER WEIGHT	O+	Clear	83	94	11	97	98.5	1.5	120/80	120/80	0/0	14	98%	NH	FR
86	Gulshan Prajapati	15.06.1999	Safety Officer	HSE	M	67	5.4	NORMAL	A+	Clear	86	96	10	96	94	-2	115/75	115/75	0/0	14	98%	NH	FR
87	Jitender Nonia	07.02.2000	DET	CCML_2	M	57	5.3	NORMAL	O+	Clear	77	84	7	94.1	94.2	0.1	105/65	110/70	5/5	14	69%	NH	Low BP
88	Sridip Khan	21.08.2001	SBO	CCM_2	M	68	5.8	NORMAL	B+	Clear	70	78	8	94.3	95.8	1.5	116/76	118/78	2/2				
89	Soni Kumar Yadav	03.01.1994	Sr Fitter	Rolling Mill_1	M	66	5.7	NORMAL	O+	Clear	82	86	4	94.9	97.5	2.6	115/75	117/76	2/1				



# Heat Stress Analysis Report

Date : 24.09.2024

Sl. No.	Name	DOB	Shift	Job Title	Workshop	Sex	Age	Weight	Height	WC	BMI	SBP	DBP	HR	ECG	ECG Result	ECG Comment	ECG Date	ECG Doctor	ECG Regd. No.	ECG Status
90	Prasanth Gupta	08.01.2001		Helper	Workshop	M	66	5.7	168	68	74	94.2	98.5	1.3	115/76	120/78	3/2	14	97%	Nil	Fit
91	Anil Kumar	15.11.1994		H. Fitter	Rolling Mill	M	62	5.3	72	80	8	91.8	94.7	-0.1	116/76	118/78	2/2	14	97%	Nil	Fit
92	Somnath Gorai	01.12.1997		Supervisor	MIS	M	66	5.7	104	91	-10	95.8	95.8	0	120/76	120/80	0/4	14	99%	Nil	Fit
93	Rintu Kumar Singh	14.04.1982		Shaperman	Workshop	M	74	5.8	101	90	-11	94.2	95.2	1	116/76	120/80	4/4	14	98%	NB	Fit
94	Bijod Kumar	04.03.1992		CNC Operator	Workshop	M	75	5.7	105	99	-6	94.8	96.8	2	116/76	118/78	2/2	14	96%	NB	Fit
95	Sudhir Kumar	20.11.1992		Fitter	Rolling Mill	M	70	5.2	109	96	-13	97.3	99.2	1.9	123/82	120/80	-2/-02	14	97%	Nil	Fit
96	Tapas Kumar Mondal	03.02.1992		DET	Rolling Mill	M	70	5.8	88	91	3	95.6	96.5	0.9	116/80	118/78	2/-2	14	96%	Nil	Fit
97	Ajan Majhi	08.11.1993		Shift Incharge	g Mill 2 (Red)	M	70	5.9	79	86	7	97.6	98.5	0.9	116/76	119/80	3/4	14	96%	Nil	Fit
98	Dipak Bagdi	03.07.1993		Helper	Rolling Mill	M	66	5.6	76	84	8	98.2	97.2	-1	116/76	118/78	2/2	14	Nil	Nil	Fit
99	Rajiv Mahato	6/7/1985		Fitter	Rolling Mill	M	72	5.6	78	86	8	94.8	97.3	2.5	122/80	120/80	-2/0	14	98%	Nil	Fit
100	Bindu Yadav	5/26/1905		Fitter	Rolling Mill	M	54	4.6	85	85	0	95.8	97.3	1.5	110/70	118/76	8/6	14	94%	NB	Fit
101	Binay Singh	22.10.1984		Helper	Rolling Mill	M	71	5.6	98	98	0	97	97.2	0.2	118/80	118/78	0/-2	14	98%	Nil	Fit
102	Dhruva Nath	6/11/1905		Jr. Fitter	Rolling Mill	M	56	5.6	110	96	-14	94.8	96.1	1.5	120/80	122/80	2/0	14	99%	Nil	Fit
103	Kaushik Mondal	10.10.1992		Jr. Fitter	Rolling Mill	M	65	5.3	86	94	6	96.9	97.4	0.5	128/84	124/82	-4/-2	14	99%	Nil	Fit
104	Amlash Kumar	15.06.1988		Fitter	Rolling Mill	M	67	5.2	80	85	5	96.7	97.1	-0.4	120/80	118/80	-2/0	14	Regd. No. - 5415	Nil	Fit

**DR. S. SHARMA**  
 Regd. Medical Practitioner  
 Regd. No. - 5415  
 Nil



# Heat Stress Analysis Report

Date : 24.09.2024

105	Pipin Kumar	01.06.1989	Rolling Mill Fitter	MI	50	5.5	NORMAL	B+	Clear	81	88	7	97.3	96.5	-0.8	120/80	120/80	0/0	14	98%	Nil	Fit	
106	Chandan Kumar Yadav	16.04.1996	Fitter	MI	55	5.7	UNDER WEIGHT	A+	Clear	81	86	5	96.1	98.6	-0.5	116/76	118/78	2/2	14	99%	Nil	Fit	
107	Swapan Kothari	01.01.1983	Operation	MI	56	5.4	NORMAL	O+	Clear	64	78	17	95.8	98.1	2.3	118/78	120/80	2/2	14	98%	Nil	Fit	
108	Pinesh Kumar	02.03.1999	Fitter	MI	46	5.3	UNDER WEIGHT		Clear	62	72	10	94.6	96.7	2.1	100/60	106/65	6/5	14	95%	Anoma	Unfit	Low BP
109	Bhadu Bhuiya	6/12/1985	Helper	MI	46	5.3	UNDER WEIGHT		Clear	62	85	23	95.8	98.2	2.4	100/60	108/60	8/0	14	95%	Nil	Fit	Low BP
110	Koju Kumar	15.01.1987	Turner	MI	55	5.3	NORMAL	B+	Clear	68	76	8	96.4	97	0.6	110/75	110/76	0/1	14	99%	Nil	Fit	
111	Santu Dhara	12.10.1987	Supervisor	MI	63	5.3	NORMAL	B+	Clear	86	94	8	97.6	98.4	0.8	120/80	120/80	0/0	14	96%	Nil	Fit	
112	Rahul Layek	15.06.1999	CFT	MI	69	5.7	NORMAL	B+	Clear	90	94	4	96	97	1	120/80	120/80	0/0	14	98%	Nil	Fit	
113	Ajay Shah	20.02.1987	Fitter	MI	69	5.7	NORMAL	B+	Clear	67	77	10	97.3	97.8	0.5	110/70	116/76	6/6	14	95%	Nil	Fit	Low BP
114	Kamal Yadav	17.11.1985	Fitter	MI	75	5.7	NORMAL	B+	Clear	83	88	5	94.8	99.3	4.5	120/80	124/82	4/2	14	98%	Nil	Fit	
115	Ajay Kumar Singh	15.03.1988	Manager	MI	75	5.6	OVER WEIGHT	B+	Clear	90	94	4	94.2	97.2	3	122/82	120/80	-2/-2	14	99%	Nil	Fit	
116	Sekhar Jabir Hussain	17.03.1980	Jr. Fitter	M	68	5.8	NORMAL	O+	Clear	72	88	16	97.8	99.4	1.6	120/78	120/80	0/0	14	95%	Nil	Fit	
117	Ajay Giri	01.01.1976	Welder	MI	81	5.8	OVER WEIGHT	B+	Clear	76	80	4	96.2	97	0.8	130/90	130/90	0/0	14	95%	Nil	Fit	High BP
118	Jhantu Das	02.02.1993	Fitter	MI	66	5.5	NORMAL	B+	Clear	77	85	8	94.3	98	3.7	120/80	120/80	0/0	14	98%	DR. R. P. SHARMA Regg. Medical Practitioner	Fit	
119	Shyamal Das	5/30/1905	Electrician	MI	68	5.5	NORMAL	O+	Clear	111	96	-15	95.2	95.5	0.3	128/84	124/84	-4/0	14	Regg. Nil	Regg. No. - 5415	Fit	High BP



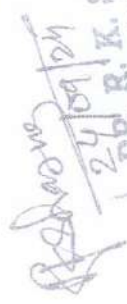
# Heat Stress Analysis Report

Date : 24.09.2024

ID	Name	DOB	Enter	CCMI-I	Sex	Age	Height	Weight	Clear	Temp	HR	RR	SpO2	WBGT	WBGT-Cor	WBGT-Adj	WBGT-Per	WBGT-Act							
120	Sunil Kumar Yadav	30.09.1994	Enter	CCMI-I	M	68	5.5	NORMAL	AV	Clear	76	84	5	91.8	91.5	40.3	120/80	118/78	-2/-2	14	96%	Nil	Nil	14	14
121	Narendra Kumar Yadav	01.01.1976	Enter	Rolling Mill	M	64	5.5	NORMAL	AV	Clear	76	84	8	91.8	97.3	2.5	122/80	120/80	-2/0	14	98%	Nil	Nil	14	14

Category	BP
Normal	120 / 80 or
Moderate	121-138 / 81-
High	>=140 / 90

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

  
**DR. R. K. SHARMA**  
 Regd. Medical Practitioner  
 No. - 5415  
 Surgeon

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



## **ANNEXURE – XI**

**(Copy of Occupational Health Report )**



# 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  
MOUZA - NAKRAJORIA  
PO+PS - SALANPUR  
DIST: PASCHIM BARDHAMAN (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. BHALU BHUIYA
2. PRATHAM MAHATO
3. SAMIR MAHATO
4. SOMNATH PAL
5. NATABAR BAURI
6. PARIMAL RUIDAS
7. RANJIT BAURI
8. DIPAK BAURI
9. MANTU BAURI
10. RHISHI BAURI
11. GOUTAM KARMAKAR
12. BINOY KUMAR ROUTH
13. GAURANGO MAHATO
14. KRISHNAPADA BAURI
15. MANOJ BAURI



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

Dr. Abir Guha  
MBBS, DNB, 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

C. T. SCAN, 4D 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-12.09.2024

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	BHALU BHUIYA	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
2	PRATHAM MAHATO	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
3	SAMIR MAHATO	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
4	SOMNATH PAL	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
5	NATABAR BAURI	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
6	PARIMAL RUIDAS	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
7	RANJIT BAURI	13.1	11,400	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
8	DIPAK BAURI	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
9	MANTU BAURI	13.6	7,900	44	19	0	1	0	5	"AB"+	LEFT VENTRICULAR HYPERTROPHY	NORMAL SPIROMETRY	FIBROTIC SCARRING LEFT UPPER ZONE	
10	RHISHI BAURI	15.0	8,700	36	4	0	0	0	12	"O"+	INCOMPLETE RIGHT BUNDLE BRANCH BLOCK	MILD RESTRICTION	WITHIN NORMAL LIMIT	
11	GOUTAMI KARMAKAR	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
12	BINDY KUMAR ROUTH	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
13	GAURANGO MAHATO	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
14	KRISHNAPADA BAURI	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
15	MANOJ BAURI	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	



# 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  
MOUZA - NAKRAJORIA  
PO+PS - SALANPUR  
DIST: PASCHIM BARDHAMAN (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. MANTU MAHATO
2. SHUBHADIP KARMAKAR
3. PRADIP BAURI
4. JITENDRA THAKUR
5. SEKH ANISH
6. SEKH JABIR HOSSAIN
7. SANJAY MAHATO
8. SUNIL YADAV
9. RABINATH MURMU
10. JAGAT PATI BAURI
11. AMIT KUMAR DAWN
12. KALYAN KUMAR GORAI
13. SWARUP DASGUPTA
14. PRASENJIT GORAI
15. PABAN HARIJAN



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

Dr. Abir Guha  
MBBS, DNB, 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

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-13.09.2024

SL.NO	NAME	BLOOD ANALYSIS								ECG	PFT	X-RAY (CHEST)	
		HEMOGLOBIN (gm/dl)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)				BLOOD GROUP
1	MANTU MAHATO	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	SHUBHADIP KARMAKAR	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
3	PRADIP BAURI	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
4	JITENDRA THAKUR	15.4	9,500	70	50	0	2	0	20	"A"+	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
5	SEKH ANISH	13.1	11,400	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
6	SEKH JABIR HOSSAIN	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
7	SANJAY MAHATO	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
8	SUNIL YADAV	13.5	6,300	66	40	1	8	0	10	"O"+	SINUS BRADYCARDIA	MILD RESTRICTION	WITHIN NORMAL LIMIT
9	RABINATH MURMU	14.1	8,200	60	30	1	4	0	15	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
10	JAGAT PATI BAURI	13.2	8,700	51	40	0	0	0	12	"O"+	SINUS ARRHYTHMIA	MILD RESTRICTION	WITHIN NORMAL LIMIT
11	AMIT KUMAR DAWN	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
12	KALYAN KUMAR GORAI	15.4	9,500	70	50	0	2	0	20	"A"+	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
13	SWARUP DASGUPTA	13.1	11,400	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
14	PRASENJIT GORAI	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
15	PABAN HARIJAN	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT





# 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  
MOUZA - NAKRAJORIA  
PO+PS - SALANPUR  
DIST: PASCHIM BARDHAMAN (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. SACHINDEV PANDEY
2. SOMEN CHATTARAJ
3. ASHOK DAS
4. ASHOK SWAIN
5. UTTAM KUMAR DUTTA
6. BRINDABAN GORAI
7. DUKHAHARAN GORAI
8. ANJAN KOLEY
9. TAPAN MONDAL
10. ASHOK KUMAR YADAV
11. JIBAN GORAI
12. LALAN MAJI
13. JAYDEB KARMAKAR
14. MUNILAL SAH
15. LAXMAN THAKUR



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

Dr. Abir Guha  
MBBS, DNB, 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

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-14.09.2024

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	SACHINDEV PANDEY	14.2	6,700	70	20	0	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	SOMEN CHATTARAJ	13.8	7,500	70	30	0	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
3	ASHOK DAS	13.6	8,600	60	60	0	4	0	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
4	ASHOK SWAIN	11.3	8,300	50	30	0	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
5	UTTAM KUMAR DUTTA	15.5	8,100	48	30	2	18	0	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
6	BRINDABAN GORAI	14.3	10,500	46	20	0	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
7	DUKHARAN GORAI	14.2	6,700	70	20	0	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
8	ANJAN KOLEY	12.1	9,000	80	35	0	2	0	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
9	TAPAN MONDAL	14.0	5,200	70	23	2	5	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
10	ASHOK KUMAR YADAV	12.9	10,200	40	20	2	8	0	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
11	JIBAN GORAI	13.8	7,500	70	30	0	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
12	LALAN MAJI	13.6	8,600	60	60	0	4	0	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
13	JAYDEB KARMAKAR	11.3	8,300	50	30	0	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
14	MUNILAL SAH	15.5	8,100	48	30	2	18	0	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
15	LAXMAN THAKUR	14.3	10,500	46	20	0	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT



# 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

MOUZA - NAKRAJORIA

PO+PS - SALANPUR

DIST: PASCHIM BARDHAMAN (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. PAWAN KUMAR RAVAT
2. SWARUP PATRA
3. SANTOSH SINGH
4. BAHADUR BAURI
5. AJAY SAH
6. GANGAVISHUN MISTRI
7. KAMLESH CHAUHAN
8. MANISH KUMAR SINGH
9. RAJESH KUMAR CHOUDHARY
10. RINTU KUMAR SINGH
11. RABIN BHADRA
12. RANJEET KUMAR
13. SIKENDER THAKUR
14. KRISHNA TIWARI
15. PARITOSH MONDAL



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

Dr. Abir Guha  
MBBS, DNB, 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

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-15.09.2024

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	PAWAN KUMAR RAVAT	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
2	SWARUP PATRA	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
3	SANTOSH SINGH	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
4	BAHADUR BAURI	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
5	AJAY SAH	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
6	GANGAYISHUN MISTRI	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
7	KAMLESH CHAUHAN	15.4	9,500	70	50	0	2	0	20	"A"+	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
8	MANISH KUMAR SINGH	13.1	11,400	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
9	RAJESH KUMAR CHOUDHARY	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
10	RINTU KUMAR SINGH	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
11	RABIN BHADRA	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
12	RANJEET KUMAR	13.6	8,600	60	60	0	4	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
13	SIKENDER THAKUR	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
14	KRISHNA TIWARI	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
15	PARITOSH MONDAL	14.3	10,500	46	20	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	



# 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

MOUZA - NAKRAJORIA

PO+PS - SALANPUR

DIST: PASCHIM BARDHAMAN (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. AJIT RANA
2. DHRUBA NATH
3. JAGDISH SAW
4. PANKAJ KUMAR RAVAT
5. SAWPAN ROUTH
6. DINANATH SHIL
7. TAUHID ALAM
8. JASPAL SINGH
9. GULSHAN PRAJAPATI
10. SHAMBUNATH BANERJEE
11. JAGDISH AGARWAL
12. SUDHIR KUMAR SINGH
13. ABHIJIT GOSWAMI
14. RAVI KANT RAY
15. BIKASH KUMAR



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

Dr. Abir Guha  
MBBS, DNB, M.D. (PATH)  
Consultant Pathologist

*[Signature]*  
Verified by -  
Chief Technologist  
(Path)

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

*[Signature]*  
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-18.09.2024

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	AJIT RANA	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
2	DKRUBA NATH	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
3	JAGDISH SAW	13.6	8,600	60	60	0	4	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
4	PANKAJ KUMAR RAVAT	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
5	SAWPAN ROUTH	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
6	DINANATH SHIL	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
7	TAUHID ALAM	14.3	10,500	46	20	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
8	JASPAL SINGH	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
9	GULSHAN PRAJAPATI	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
10	SHAMBUNATH BANERJEE	14.0	5,200	70	23	2	5	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
11	JAGDISH AGARWAL	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
12	SUDHIR KUMAR SINGH	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
13	ABHIJIT GOSWAMI	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
14	RAVI KANT RAY	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
15	BIKASH KUMAR	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	



# 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

MOUZA - NAKRAJORIA

PO+PS - SALANPUR

DIST: PASCHIM BARDHAMAN (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. KRISHNA RAM
2. CHANDAN KUMAR YADAV
3. MANJEET KUMAR
4. SUMAN DAS
5. BISWAJIT SINGHA
6. RAMDHAR SHARMA
7. SHAMAL DAS
8. AMIT KUMAR SINGH
9. MD.SIKANDAR ANSARI
10. SUPRIYA DEY
11. RAMAKANT KUMAR
12. PRIYANKA SINGH
13. NIKITA GOSWAMI
14. JANTU DAS
15. VISHWAJEET SINGH

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



Dr. Abir Guha  
MBBS, DNB, 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

C. T. SCAN, 4D 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-19.09.2024

SL. NO	NAME	BLOOD ANALYSIS										ECG	PFT	X-RAY (CHEST)
		HEMOGLOBIN (gm/dl)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)	BLOOD GROUP				
1	KRISHNA RAM	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
2	CHANDAN KUMAR YADAV	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
3	MANJEET KUMAR	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
4	SUMAN DAS	14.3	10,500	46	20	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
5	BISWAJIT SINGHA	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
6	RAMDHAR SHARMA	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
7	SHAMAL DAS	15.4	9,500	70	50	0	2	0	20	"A"+	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
8	AMIT KUMAR SINGH	13.1	11,400	70	39	0	1	0	10	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
9	MD.SIKANDAR ANSARI	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
10	SUPRIYA DEY	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT	
11	RAMAKANT KUMAR	15.0	8,700	36	4	0	0	0	12	"O"+	INCOMPLETE RIGHT BUNDLE BRANCH BLOCK	MILD RESTRICTION	WITHIN NORMAL LIMIT	
12	PRIYANKA SINGH	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT	
13	NIKITA GOSWAMI	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT	
14	JANTU DAS	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	
15	VISHWAJEET SINGH	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT	





# 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

MOUZA - NAKRAJORIA

PO+PS - SALANPUR

DIST: PASCHIM BARDHAMAN (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. SANJAY KUMAR GHOSH
2. SARWAN PASWAN
3. RAJ KUMAR PRASAD
4. SUNIL KARMAKAR
5. AVINASH KUMAR BURMAN
6. SANJAY KUMAR
7. RAJESH SUTRADHAR
8. SUVADIP BANERJEE
9. SUJIT GORAI
10. SUBHAM KUMAR SRIVASTAVA



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

Dr. Abir Guha  
MBBS, DNB, 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

C. T. SCAN, 4D 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-20.09.2024

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	SANJAY KUMAR GHOSH	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	SARWAN PASWAN	14.0	5,200	70	23	2	5	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
3	RAJ KUMAR PRASAD	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
4	SUNIL KARMAKAR	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
5	AVINASH KUMAR BURMAN	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
6	SANJAY KUMAR	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
7	RAJESH SUTRADHAR	14.2	7,400	80	50	2	8	0	45	"O"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
8	SUVADIP BANERJEE	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
9	SUJIT GORAI	14.2	6,700	70	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
10	SUBHAM KUMAR SRIVASTAVA	12.1	9,000	80	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT



**ANNEXURE – XII**  
**(Copy of CER Cost Incurred )**



**CER Expenditure Details:**

**Project:** Expansion of Steel Melting Shop (IF with LF & CCM: 1,35,000 TPA to 3,75,000 TPA, Rolling Mill from 90,000 TPA to 2,97,000 TPA); Cold Drawing Workshop: 33,000 TPA of M/s Maithan Steel & Power located at Nakrajoria P.S – Salanpur, Dist – Paschim Bardhaman, West Bengal.

**EC letter No:** J-11011/679/2008-IA-II(I) dated 16.04.2019 and amended of this EC was granted vide letter No – J-11011/679/2008-IA-II(i) dated 14.10.2019

**Action plan as per MoEF&CC O.M. dated 30/09/2020**

Sl. No.	Description	Expenditure (Rs. In lakh)		
		1st Yr.	2nd Yr.	Total
1	Sinking of new bore wells in Mahespur, Salanpur and Dendua village @5 per village	30	35	65
2	Engaging under privilege woman in self –help group to make them sustainable	7	=	7
3	Existing halogen electric bulbs in and around the village to be altered with energy efficient LED bulbs	6	2	8
4	About two kilometer approaching road to the plant site will be strengthened , with the permission of the local authority.	25	17	42
5	Construction of toilets inside the school	7	1	8
	<b>Total</b>	<b>130</b>		

**Details of the CER Activity & Expenditure Incurred:**

ACTIVITY	CER Budget	Expenses Incurred			
		2021-22	2022-23	2023-24	2024-25
Sinking of new bore wells in Mahespur, Salanpur and Dendua village @5 per village	65.00	10.38	6.10	10.93	5.00
Engaging under privilege woman in self –help group to make them sustainable	7.00	1.50	0.70	18.16	0.58
Existing halogen electric bulbs in and around the village to be altered with energy efficient LED bulbs	8.00	0.25	0.10	0.18	1.82
About two kilometer approaching road to the plant site will be strengthened, with the permission of the local authority.	42.00	14.16	13.35	21.25	--
Construction of toilets inside the school	8.00	10.55	--	2.24	4.19
<b>Total:--</b>	<b>130.00</b>	<b>36.84</b>	<b>20.25</b>	<b>52.76</b>	<b>11.59</b>

**Registered Office:**

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

☎ +91 33 4085 7200

**Works: Unit-I**

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

**Works: Unit-II**

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

**ANNEXURE – XIII**  
**(Copy of Recurring Cost for EMP )**



## Recurring Cost Incurred on Environmental Safeguard

### Maithan Steel & Power Ltd. (Unit-II)

Year	Particulars	Narration	Amount
April'24 - September'24	Green Belt Development	Maintenance, labour cost etc.	453747.00
	House Keeping	Labour charges, Drainage Cleaning and other materials	851273.64
	Analysis & Monitoring of Environmental Parameters	Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis	109563.3
	O&M on APC Devices	Operation & Maintenance cost, Electricity consumption etc. on APC Device installed.	4448712.45
<b>TOTAL</b>			<b>5863296.39</b>



**Environment Department**  
**M/S Maithan Steel & Power Ltd**

## **ANNEXURE – XIV**

**(Copy of Newspaper Advertisement regarding grant of EC from MoEF&CC)**



# The Telegraph CLASSIFIED

**The Telegraph**  
AIR SURCHARGE  
TRIPURA - IMPHAL 1.00  
MUMBAI AND BEYOND  
5.00 DELHI AND  
BEYOND - CHENNAI  
AND BEYOND  
- BANGALORE  
PORT BLAIRE 7.00

To book advertisements  
in The Telegraph  
Classified for  
Sunday 16.06.2019  
please call:  
Calcutta\* 9830943838  
Outside Calcutta  
\* 8017745199

## IN MEMORIAM

One year on, the memories are  
only more vivid.  
You will be in our thoughts and  
conversations, always.



**Asish Sengupta**

14.01.1951 - 12.06.2018

Rumki (Sudeshna), Bimbo (Arghya)  
Bulu (Sumitra), Ma (Padma)  
Dhvani, Guddi (Anuradha)  
Sattick and Chaklu (Shaunakjeet).

## OBITUARY



With profound sorrow, we wish to  
inform you the sad demise of  
**Smt. Ruma Guha Thakurta**  
on Monday 3rd June 2019  
at her residence  
38 Ballygunge Place, Kolkata 19.  
Her Shradh Ceremony  
will be held on  
Sat 15th June 2019  
Time 10 am to 1 pm at  
**Sri Chaitanya Research  
Institute, 70B Rashbehari  
Avenue, Kolkata 26.**

Deeply mourned by sons Amit, Ayan &  
daughter Sromona and Guha Thakurta family.  
Please join us in our prayers

## Disclaimer

This newspaper  
does not vouch  
or subscribe to  
the claims and  
representations  
made by the  
advertisers. Readers  
are advised to  
make appropriate  
enquiries before  
acting upon any  
advertisement.

## NOTICE

This is for the  
information of public that  
M/s Maithan Steel &  
Power Ltd, located at -  
Nakrajoria, PS -  
Salanpur, Dist. -  
Burdwan(W), has been  
granted Environmental  
Clearance from Ministry  
of Environment, Forest &  
Climate Change,  
Government of India,  
vide letter No:  
J-11041/697/2008-LA-  
II(G), dated 16th April,  
2019 for expansion of its  
steel production capacity  
from 1,35,000 TPA to

3,75,000 TPA. Rolling  
mill capacity from 90,000  
TPA to 2,07,000 TPA and  
to set up Cold Drawing  
Workshop of 24,000 TPA.  
Copies of clearance letter  
are available with Heads  
of local bodies,  
Panchayats and  
Municipal bodies and  
may also be seen  
<http://www.environmentclearance.nic.in/>

M. Santanu Singh Advocate  
Ph: 9007081525  
E-Mail: santanuaadv@yahoo.in

Please note that the  
rent of lease dated 24.05.1993  
bearing Book No. Volume  
No. 92, Pages 125-127, Being  
No. 2994 for the year 1993  
registered with the Office  
of Sub-Registrar at Alipore  
24, Paganas, is found lost  
from my client, Sri SUJOY  
SRIMAL, son of late Jagat  
Srinia, residing at 1912,  
Gariahat Road, Police  
Station-Gariahat, Kolkata-700  
015. Any one if finds the  
said deed please contact the  
undersigned.

M. Santanu Singh  
Advocate  
Ph: 9007081525  
E-Mail: santanuaadv@yahoo.in

## TENDER

**ULUBERIA  
MUNICIPALITY**  
Uluberia, Howrah  
Email:  
uluberia.municipality@gmail.com  
Tender Notice  
Notice inviting Tender  
NIT-WB/MAB/UM/  
046-Tender/2019-20  
dated 10.06.2019 for  
Purchase of D.I Pipe  
Details are available in  
[www.wbtenders.gov.in](http://www.wbtenders.gov.in)  
[www.uluberia.municipality.org](http://www.uluberia.municipality.org)

## E-TENDER

Secretary, Purba  
Medinipur Zilla BMC  
invites eTender for  
development project.  
ID: 2019\_WB/MAB/  
227085\_1/227122\_1/  
227114\_1/227122\_1/  
227125\_1/227127\_1  
Closing on 03/07/2019 at  
12.00 Noon. Please visit  
[wbtenders.gov.in](http://wbtenders.gov.in)  
(through Org. Search  
West Bengal State  
Marketing Board) for  
further details.

**Notice Inviting Quotation**  
Consultancy Services for conducting Feasibility  
Study & Subsequent preparation of DPR for the  
Projects:

1) Construction of flyover from junction of A.J.C.  
Bose Road with Alipur Road near Alipore Zoo to  
Tollygunge Tram Depot near Tolly Club through  
the Tolly Canal, in Kolkata, West Bengal.

Tender ID: 2019\_SH\_227488\_1

Tender Reference Number:

NIQ-01/2019-20/EE/SHPD-I PW(R)DTE

2) Construction of flyover from Soujanya to  
Ballygunj Phari through Hazra Road with  
three arms (A) towards Rashbehari More at  
S.P. Mukherjee Road Crossing, (B) towards  
Deshapriya Park at Sarat Bose Road Crossing &  
(C) towards National Library near Bekar Road  
and Belvedere Road in Kolkata, West Bengal.

Tender ID: 2019\_SH\_227524\_1

Tender Reference Number:

NIQ-02/2019-20/EE/SHPD-I PW(R)DTE

Tender documents are available in the website  
of <https://wbtenders.gov.in>

Sd/-

Executive Engineer Southern Highway  
Planning Division-I  
P.W.(Roads) Directorate

DICO/S24PGS/3515

Dt-11.06.2019

## ABRIDGED NOTICE INVITING e-TENDER

WBIW/SE/WC-III/NIT-01e/2019-20

Superintending Engineer, Western Circle-III invites  
of online tender for 13 (thirteen) nos. civil works in  
Block, Kolaghat, Panskura, Pataspur-I & II,  
Ramnagar-I in District Purba Medinipur and under  
this Circle. A.P.T ranging from 49.74 lakh to  
Rs. 406.81 lakh. Tender forms and other details may  
be obtained from the departmental website  
[www.wbwd.gov.in](http://www.wbwd.gov.in) and <http://etender.wb.nic.in> (direct  
site) Last date of submission of e-bid online is  
04.07.2019 upto 17:00 hrs.

[Sd/- G.P. Ghosh]

Superintending Engineer  
Western Circle-III, I&W Dte  
Tamluk, Purba Medinipur

## কলকাতা পোর্ট ট্রাস্ট KOLKATA PORT TRUST HALDIA DOCK COMPLEX

### NOTICE INVITING APPLICATION

RFQ/Tender No.: GM(Engg)T/47/2019-2020 for  
"Mechanization of Berth No.3 on Design, Build,  
Finance, Operate, Transfer ("DBFOT") basis" at Haldia  
Dock Complex for a concession period of thirty (30)  
years." Estimated Cost: Rs 331.94 Crores

The schedule of different activities till submission of  
the applications is as under:

S.No.	Activity	Time
1	Download period of RFQ Document	From 11.06.2019 at 10.00 hrs
2	Last date of receiving queries regarding RFQ	17.00 hrs on 05.07.2019
3	Date of Pre-Application Conference	11.00 hrs on 10.07.2019
4	Authority response to queries latest by	17.00 hrs on 17.07.2019
5	Last date of submission of RFQ Applications	Upto 15.00 hrs on 25.07.2019
6	Date of Opening of RFQ Application	After 15.30 hrs on 25.07.2019

Note: Any updation/amendment in the RFQ will be  
uploaded on the Authority's website only viz.  
<http://kolkataporttrust.gov.in>

To book advertisements

in The Telegraph

Classified for

Sunday 16.06.2019

Please call:

Calcutta \* 704 4100205

Outside Calcutta

\* 9814115111

## STATE HEALTH & FAMILY

### WELFARE SOCIETY

### TRIPURA

### (NATIONAL HEALTH

### MISSION)

Request for Proposal

Tender Ref: No.F.304-8)

BLAN/DHS/2006/Vol-

X(SUB)  
Dated: 05/06/2019

Request for Proposal  
For  
Teleophthalmology  
Services

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# ইত্যাদি

অসম চৰকাৰৰ পৰিচয়  
বিমান মাণ্ডল  
অসম চৰকাৰ, কলকাতা  
অসম চৰকাৰ, কলকাতা  
অসম চৰকাৰ, কলকাতা  
অসম চৰকাৰ, কলকাতা  
অসম চৰকাৰ, কলকাতা  
অসম চৰকাৰ, কলকাতা

## জন্মদিন



শিৱেশ বৰণ বোহা  
জন্ম: ১২.৬.১৯৩৯  
মৃত্যু: ২.৭.২০১৪  
মৃত্যু কাৰণ হৃদযন্ত্ৰৰ  
পৰিচয় কৰাৰ সময়ত  
ৰয়েছ বৈধতাৰ স্মৃতি  
নিয়ে। ইয়াত শ্ৰীমতী  
অনুপমা (শ্ৰী) অমিতা  
(কন্যা), প্ৰতিভা (কন্যা)  
পানীৰ (কন্যা),  
পানীৰ (পুত্ৰ), গাৰ্গী  
(পুত্ৰকন্যা) বোহা পৰিবাৰ  
উত্তৰপাত্ৰ, কলিঙা

## নাম পৰিৱৰ্তন

This is for information that I, Bimal Kumar Ghoshal s/o Dwijendra Lal Ghoshal, declared vide affidavit No. 19/19 dated 28.05.2019 that my name is wrongly mentioned in my Navy Service Book (Navy Ex-Sea - 1, 84535 H) as Bimal Krishna Ghoshal in place of Bimal Kumar Ghosal (As mentioned in my Aadhar, Voter and Pan Card). Both are one and same identical person only.

## আবেদন

A+ কিডনি চাই,  
প্ৰকৃতনাম পৰিচয়পত্ৰ সহ  
সহায় যোগাযোগ কৰক, ২৪  
বছৰৰ মহিলাৰ জন্য।  
Mobile-8420441081  
1028124-2888722  
আমাৰে A+ O+ গ্ৰুপেৰ  
একটি কিডনি প্ৰয়োজন।  
স্বীচ্ছাম আপনো  
যোগাযোগ কৰক, সমস্ত  
ডকুমেন্টস নিয়ে আসবেন,  
বয়স ২৬ থেকে ৪২ চলবে।  
M-7872500282  
1028124-2888722  
O+ / B+ blood group  
এৰ সচিব পৰিচয় পত্ৰসহ  
কিডনি দাতা চাই।  
7449440541.  
1028124-2888722

## স্মৃতিৰ উদ্দেশে

বন্ধু হে আমাৰ ৰয়েছ দাঁড়ায়



আশিস সেনগুপ্ত  
১৪.০১.১৯৫১ - ১২.০৬.২০১৮  
ৰুমকি (সুদেষ্কা), বিহু (অৰ্ঘ্য),  
বুলু (সুমিত্ৰা), মা (পদ্মা),  
ধ্বনি, গুড্ডি (অনুৰাধা),  
সাত্বিক ও চাকলু (শৌনকজিৎ)

## নিৰুদ্দেশ



ৰবীন্দ্ৰনাথ নাথ (৭৫)  
শ্যামবাৰ্ণ, পৰণে ছিল নীল  
ৰঙেৰ লুপি হাফ হাতা জামা।  
কথা বলতে পাৰেন না।  
সকল পলে দয়া কৰে  
যোগাযোগ কৰক-  
9231611728/ 8585862841  
1078956-288827

## নোটিচ

This is for the information of public that M/s Malthan Steel & Power Ltd, located at - Nakrajoria, PS - Salanpur, Dist. - Burdwan(W), has been granted Environmental Clearance from Ministry of Environment, Forest & Climate Change, Government of India, vide letter No: J-11011/697/2008-IA-II(I), dated 16th April, 2019 for expansion of its steel production capacity from 1,35,000 TPA to 3,75,000 TPA, Rolling mill capacity from 90,000 TPA to 2,97,000 TPA and to set up Cold Drawing Workshop of 33,000 TPA. Copies of clearance letter are available with Heads of local bodies, Panchayats and Municipal bodies and may also be seen <http://environmentclearance.nic.in/>

## তোমাৰ সৎ, নিৰ্ভীক জীৱন হোক আমাদেৰ পাথেয়



ৰাজনৈতিক বিশ্লেষক  
অধ্যাপক  
ডঃ অমিয় চৌধুৰীৰ  
প্ৰয়াণেৰ (১২/৬/১৮)  
প্ৰথম বৰ্ষে  
শুণমুহুৰ সুহৃদ ও  
পৰিবাৰবৰ্গ



শ্ৰীমতী প্ৰতিভা মুখোপাধ্যায়  
আশ্ৰিত জনজীৱিত আমাদেৰ প্ৰণাম।  
দিপি পিছু  
মানু ৰাজাবু বুদ্ধ  
দশহুৱা। ২৮শে জ্যৈষ্ঠ, ১৪২৬

## শোকসংবাদ



আমাৰ গৰীৰ মৃত্যুৰ সন্মত জানাৰ্ছি যে,  
কামা গুহঠাকুৰতা  
গত ৩ জুন ২০১৯, সোমবাৰ,  
নিত্ৰ বাসভবন ৩৮, বাৰীপল্লী গ্ৰেচ,  
কলকাতা-১৯-এ পৰলোকগমন  
কৰেছেন।  
আগামী ১৫ জুন ২০১৯ শনিবাৰ  
সন্ধ্যা-সকাল ১০টা - ১টা  
শ্ৰী চৈতন্য দ্বিসাৰ্হ ইনস্টিটিউট,  
২০ৰি ৱাসবিহাৰী এডিনিউ,  
কলকাতা-২৬-এ তাঁৰ  
পাৰলৌকিক ক্ৰিয়া সম্পন্ন হবে।  
আপনাদেৰ উপস্থিতি প্ৰাৰ্থনীয়।

শোকসংস্থ- অমিত, অয়ন (পুত্ৰ), শ্ৰমণা (কন্যা)  
ও গুহঠাকুৰতা পৰিবাৰ



মৃগালকান্তি গুপ্ত  
"প্ৰভু আমাৰ প্ৰিয় আমাৰ  
পৰম ধন হে। চিৰপথেৰ  
সঙ্গী আমাৰ চিৰজীৱন হে।"  
অধ্যাপক মৃগালকান্তি গুপ্তৰ  
প্ৰথম প্ৰয়াণ বাৰ্ষিকীতে দুঃখ  
ও কষ্টেৰ মধ্যে দিয়ে তাঁকে  
স্মৰণ কৰি। চিৰ সঙ্গীনি-  
শিপ্ৰা গুপ্ত।



দুৰ্গায় ভাৱতী বসু স্মরণে  
"মরণে হাসিছ তুমি, কাঁদিছে  
তোমাৰ সোনাৰ সংসাৰ, যায়  
আৰ কি কখনো ফিৰে পাব  
সে জীৱন"- শ্ৰী শিবব্ৰত বসু,  
ঘোলা।

ব্যক্তিগত বিজ্ঞাপনেৰ জন্য যোগাযোগ কৰক  
9831133455 • 9614115115

## **ANNEXURE – XV**

**(Copy of Intimation Letter to the Local Administration regarding grant of EC from MoEF&CC)**



Dated: 24<sup>th</sup> September, 2024

To,  
The Sabhapati  
Salanpur Panchayat Samiti  
Paschim Bardhaman  
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations.

I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully

Kaushik Chakraborty

AGM Commercial

[environment@maithansteel.com](mailto:environment@maithansteel.com)

Maithan Steel & Power Limited

Salanpur, Paschim Bardhaman

West Bengal.



**Registered Office:**

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

© 033-4849 8118

CIN: U27102WB2001PLC093321

**Works: Unit-I**

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

[www.maithansteel.com](http://www.maithansteel.com)

**Works: Unit-II**

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

© 8651540007

Dated: 24<sup>th</sup> September, 2024

To,  
The Pradhan  
Dendua Gram Panchayat  
Paschim Bardhaman  
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

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

Thanking you for your kind attention to this matter.

Yours Faithfully  
Kaushik Chakraborty  
AGM Commercial  
[environment@maithansteel.com](mailto:environment@maithansteel.com)  
Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
West Bengal.



Received  
Staff  
PRADHAN 30/9/24  
Dendua Gram Panchayat

Registered Office:

9, A.J.C Bose Road, Ideal Centre,  
6th Floor, Kolkata-700 017  
© +91 33 4085 7200

Works: Unit-I

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

Works: Unit-II

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

Dated: 24<sup>th</sup> September, 2024

To,  
The District Magistrate  
Paschim Bardhaman  
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations

I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully  
Kaushik Chakraborty  
AGM Commercial

[environment@maithansteel.com](mailto:environment@maithansteel.com)  
Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
West Bengal.



Registered Office:

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

☎ +91 33 4085 7200

Works: Unit-I

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

Works: Unit-II

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

Dated: 24<sup>th</sup> September, 2024

To,  
The General Manager  
DIC, Durgapur  
Paschim Bardhaman  
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

We look forward to your cooperation in our endeavours to comply with all necessary regulations and ensure the sustainable development of our regional operations.

I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully,

Kaushik Chakraborty  
AGM Commercial

[environment@maithansteel.com](mailto:environment@maithansteel.com)

Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
West Bengal.



7103  
30-9-24  
Received (Contents not verified)  
DIC-Paschim Bardhaman  
Durgapur, Govt. of West Bengal

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)

☎ 8551540007

Dated: 24<sup>th</sup> September, 2024

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

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

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I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully  
Kaushik Chakraborty  
AGM Commercial

[environment@maithansteel.com](mailto:environment@maithansteel.com)  
Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
West Bengal.



**Registered Office:**

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

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CIN: U27102WB2001PLC093321

**Works: Unit-I**

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

[www.maithansteel.com](http://www.maithansteel.com)

**Works: Unit-II**

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

© 8651540007

Dated: 24<sup>th</sup> September, 2024

To,  
The Sub – Divisional Officer  
Asansol  
Paschim Bardhaman  
West Bengal

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakraoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakraoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

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I am attaching a copy of the Environment Clearance letter for your reference and records.

Thanking you for your kind attention to this matter.

Yours Faithfully  
Kaushik Chakraborty  
AGM Commercial  
[environment@maithansteel.com](mailto:environment@maithansteel.com)  
Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
West Bengal.



*Smsi 27/09/24*

Registered Office:  
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☎ 033-4849 8118  
CIN: U27102WB2001PLC093321

Works: Unit-I  
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Dist.: Purulia, (WB)  
www.maithansteel.com

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



Dated: 24<sup>th</sup> September, 2024

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

Subject: Intimation Regarding Grant of Environmental Clearance from MoEF & CC, New Delhi vide letter No: F.No. J-11011/679/2008-IA-II(I) dated 16<sup>th</sup> April 2019 to M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal.

Respected Sir,

We are writing to inform you that M/s Maithan Steel & Power Ltd (Unit II) located at Vill – Nakrajoria, PO & PS – Salanpur, Dist – Paschim Bardhaman, West Bengal has received the environmental clearance from the Ministry of Environment, Forest & Climate Change, Government of India. The Clearance was granted on dated 16<sup>th</sup> April 2019 vide letter No: F.No. J-11011/679/2008-IA-II(I).

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

Thanking you for your kind attention to this matter.

Yours Faithfully,  
Kaushik Chakraborty  
AGM Commercial

[environment@maithansteel.com](mailto:environment@maithansteel.com)  
Maithan Steel & Power Limited  
Salanpur, Paschim Bardhaman  
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Chittaranjan Road, Dendua More,  
P.O & P.S.: Salanpur - 713357,  
Dist.: Paschim Bardhaman (WB)

**ANNEXURE – XVI**  
**(Copy of Decarbonization Report)**



# DE-CARBONISATION PROGRAM

**FOR**



## M/s Maithan Steel & Power Ltd

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



Prepared by



### J.M. EnviroNet Pvt. Ltd.

Emaar Digital Greens, Tower – B, Unit No. 1517,  
Golf Course Ext. Road, Sector – 61, Gurugram (Haryana) – 122 011



years of

# JM ENVIRONET PVT. LTD.

CIN No.:- U45201RJ1993PTC0074

## PREFACE

As per the EC condition VII (ii), "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", an audit for preparation of decarbonization plan was conducted by the experts from JM EnviroNet Pvt. Ltd on 14<sup>th</sup> and 15<sup>th</sup> of May, 2024.

<b>Environmental Auditor</b>	JM EnviroNet Pvt. Ltd.
<b>Client</b>	M/s Maithan Steel & Power Ltd.(MSPL) At Nakrajoria, PS- Salanpur, Dist:-Burdwan(W), WB
<b>Report compiled by</b>	JM EnviroNet Pvt. Ltd. Unit 1517, 15th Floor, Tower B, Emaar Digital Greens, Sector 61, Gurgaon, Haryana
<b>Audit date</b>	14 <sup>th</sup> and 15 <sup>th</sup> of May, 2024



### Regd. Office

Jaipur Centre, 403, 4<sup>th</sup> Floor,  
B2 Bye pass, Tonk Road, Jaipur-302018 (Rajasthan) India  
E-mail: jmenviron@hotmail.com www.jmenvironet.org

### Corporate Office

Emaar Digital Greens, Tower-B,  
Unit No.1517, Golf Course Ext. Road,  
Sector-61, Gurugram-122011 (Haryana) India

## TABLE OF CONTENTS

### PART I

1.1 Introduction	2
1.2 Carbon Emissions - Scopes	2
1.3 Methodology of GHG Emission Calculations	3
1.4 Carbon Neutrality.	4

### **PART II PROJECT DETAILS**

2.1 Type of the Project	6
2.2 Magnitude of the Operation	6
2.3 Requirements of the Project	6
2.4 Major Equipment and machineries	8
2.5 Solid and HW Waste Management	10
2.6 Green Belt Development & Plantation	10
2.7 Fire Extinguishers	11
2.8 Refrigerant Consumption	11

### **PART III GHG INVENTORISATION AND MITIGATION STRATEGY**

3.1 Identification of GHG Sources	13
3.2 Summary of GHG Emissions	13
3.3 Greenbelt Credit	14
3.4 GHG Emission Reduction, Carbon Capture & Storage and Utilization of CO2	15
3.5 Quality Assurance/ Quality Control	16
3.6 Reporting and Documentation	16

\*\*\*\*\*



## PART I

### 1.1 Introduction

United Nations Intergovernmental Panel on Climate Change (IPCC) has issued warning that the Climate Resilient Development is difficult at the present levels of temperature of the globe. If the global warming results in temperature increase beyond 1.5°C (2.7°F), further energy intensive development will be extremely difficult. This significant conclusion emphasizes the need for a climate policy that prioritizes equity and justice, adequate finance, technology transfer and interventions, political commitment, and collaboration, which necessarily shall contribute to more successful climate change adaptation and emissions reductions.

Steel plays a crucial role in building a sustainable global economy, but its manufacturing is the fifth largest contributor to global GHG emissions. De-carbonization of the steel sector is therefore a global concern and a big challenge. This industry is under tremendous pressure to improve upon its energy intensity to reduce GHG emissions and to further utilize CO<sub>2</sub> captured for useful purposes or go for long term sequestration to fix it in nature's cycle.

This report describes the methods for GHG inventorisation for an existing establishment of a steel plant of M/s Maithan Steel & Power Limited at West Bengal and the measures proposed to be adopted to mitigate GHG emissions from the project.

### 1.2 Carbon Emissions: different scopes of emissions

According to the Organizational Foot Printing Standard -ISO 14064-1, GHG emissions are categorized into 3 scopes:

#### Scope 1 emissions:

This includes the direct emissions that result from activities within the organization's control, e.g., on-site electricity generation, combustion in furnaces, heating/cooling operations at site; company-owned vehicles, fugitive emissions (e.g., refrigerants, emissions from fire extinguishers, refrigerators, circuit breakers etc.).

#### Scope 2 emissions:

This includes indirect emissions from any electricity or heat or compressed air consumed that has been imported from outside the factory.

#### Scope 3 emissions:

This includes all of the indirect emissions that occur in the value chain, weighted according to the company's contribution. e.g., purchased goods and services, employee commuting,



business travel, upstream emissions from fuel extraction, waste management, T&D losses and electricity consumption and Ozone Depleting Substances refill for Work from Home. Scope 3 emissions are a consequence of the activities of the company, but occur from sources not owned or controlled by the company. Some examples of Scope 3 activities are extraction and production of purchased materials; transportation of purchased fuels & raw materials and use of products and services from outside. There are generally following categories of activities under Scope 3 ;

- Category 1: Purchased goods and services,
- Category 2: Capital goods purchased,
- Category 3: Upstream transportation and distribution,
- Category 4: Solid Waste disposal outside plant premises,
- Category 5: Business travel,
- Category 6: Employee commuting,
- Category 7: Upstream leased assets,
- Category 8: Downstream transportation and distribution,
- Category 9: Processing of sold products,
- Category 10: Use of sold products,
- Category 11: End-of-life treatment of sold products,
- Category 12: Downstream leased assets,
- Category 13: Franchises,
- Category 14: Investments,
- Category 15: Emissions during “Work from Home”, etc.

According to the GHG Corporate Protocol, all organizations should quantify Scope 1 and 2 emissions when reporting and disclosing GHG emissions, while quantification of Scope 3 emissions is voluntary and may be reported by companies to identify the greatest GHG reduction opportunities across their value chain which in turn makes business activities more sustainable and competitive. Latest trend in the industry is to quantify GHG emissions for Scope 3 as far as possible.

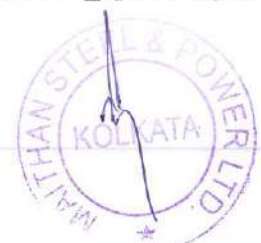
### **1.3 Methodologies for GHG Emission calculations :**

#### **Scope 1**

The methodology used for GHG emissions calculations for use of fossil fuels and refrigerants is briefly described in IPCC emission factor guide book available on IPCC website and or GHG protocol website for different types of fuels ie, coal, coke, liquid fuels, NG, LPG, LNG, ODS etc. Emission Factors are available from the following reference attached as **Annexure I**;

[https://www.epa.gov/sites/default/files/2021-04/documents/emission-factors\\_apr2021.pdf](https://www.epa.gov/sites/default/files/2021-04/documents/emission-factors_apr2021.pdf)

#### **Scope 2: External Electricity Consumption:**



This may be noted that emission factor for electricity, can be obtained from CEA web site given below ( Attached as **Annexure II**); The average grid factor for India for 2023-24 is 0.716 TCO<sub>2</sub> per MWH.

[https://cea.nic.in/wp-content/uploads/tpecc/2022/02/User\\_Guide\\_ver\\_17\\_2021.pdf](https://cea.nic.in/wp-content/uploads/tpecc/2022/02/User_Guide_ver_17_2021.pdf)

For imported steam and compressed air, the supplier of these utilities should provide information on CO<sub>2</sub> emission per NM<sup>3</sup> of steam or compressed air.

### **Scope 3:**

Upstream Transportation and Distribution: Emissions due to upstream transportation in tCO<sub>2</sub>e = “Total distance travelled \* Emission Factor”. The emission Factors are available in **Annexure III**;

Downstream Transportation and Distribution: Emissions due to downstream transportation of products in tCO<sub>2</sub>e = “Total distance travelled \* Emission Factor” but the same has not been considered in present scope as the destinations for the products after leaving the factory gate are not available. Scope 3 emissions for employees commute based on certain assumptions are presented in spreadsheets attached.

### **1.4 Carbon Neutrality**

Carbon neutrality refers to a balance between carbon emissions and carbon absorption from the atmosphere in carbon sinks. General strategy to be adopted by the project proponent to reduce GHG emissions and absorb carbon is defined below;

#### **Scope 1 Emissions Reduction**

- a. Reduce fuel consumption and improve operational energy efficiency.
- b. Capital investments in newer, more energy-efficient equipment/technologies to lower operating costs while also lowering emissions.
- c. Conducting energy audits at workplaces where electricity and fuel consumption is high in order to identify better alternatives and save money on energy consumption.
- d. For carbon neutrality, CER may be considered to be purchased based on calculated footprint. CERs are electronic certificates issued for greenhouse gas emission reductions from CDM project activities or programmes of activities (PoAs) in accordance with CDM rules and requirements.

#### **Scope 2 Emissions Reduction**





It may be noted that when Project Proponent buy Renewable Energy credits (RECs), they would enable more clean energy projects to supply power to the grid where they operate. Grid operators want to buy the cheapest power possible because energy from wind and solar plants is frequently less expensive than energy from coal-burning plants. As a result, by purchasing RECs, Project Proponent shall effectively be reducing carbon emissions by reducing brown power intake from the grid.

### **Scope 3 Emission Reduction**

Optimisation of employee commute, business travel, and rail transport, local out sourcing are some of the measures taken to reduce scope 3 emissions. Vocal for local is the business policy of Proponent.

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## PART II

### PROJECT DETAILS

#### 2.1 TYPE OF THE PROJECT

M/s Maithan Steel & Power Limited is presently operating 3,75,000 TPA Steel Melting Shop (4 x 15 T I.F & 3 x 20 T I.F with matching LRF & CCM), 2,97,000 TPA Rolling Mill with 33,000 TPA Cold Drawing Workshop at Nakrajoria, P.S-Salanpur, District Paschim Bardhaman, West Bengal. Total plant area is 10.27 hectares;

#### 2.2. MAGNITUDE OF THE OPERATION

Size or magnitude of operation for the project is given below:

**Table: 2.1 Details of expansion**

Units	Existing Configuration	Capacity in TPA	End use
SMS (IF, LRF & matching CCM)	4 x 15T IF, 3 x 20T IF, With matching LRF + 2 CCM	3,75,000 Billets	Rolling Mill & Sale
Rolling mill	1 x 300 TPD, 1 x 600 TPD	2,97,000 Long & Flat product	Sale
Cold Drawing Workshop	1 x 100 TPD	33,000 Cold drawn Torkari, Black Wire, Nails, corrugated sheets, Wire Mesh, MS Pipes & structural Tubes etc.	Sale

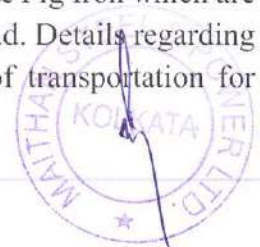
**Source:** EIA Report

#### 2.3. REQUIREMENTS FOR THE PROJECT

The project requirement such as raw material, fuel, water, steam, power, manpower with source of supply is described in the section below:

##### 2.3.1. Raw Material Requirement for the Project

The basic raw material for the manufacturing of Steel is Sponge Iron & Pig Iron which are being/will be sourced from MSPL (Unit-I)/nearby local market by road. Details regarding quantity of raw materials required their source along with mode of transportation for proposed expansion project have been tabulated below.



**Table 2.2 Raw Material Requirement**

Name of the Raw Materials	Estimated Quantity (TPA)	Source	Mode of Transportation	Distance from Project Site (Km)
	As per existing project Total			
Sponge Iron	3,70,000	Maithan Steel & Power Limited (Unit-I) & Local Market	Road	30 Km
Pig Iron	35,500	Local	Road	50 Km
Scrap	20,000	Local/Own	Road	30 Km
Low Carbon Steel material/Wire Rods & flats	33,000	Local	Road	30 Km

**2.3.2. Water Requirement**

Water requirement for the plant is 1250 KLD (Daily make up water requirement is 1015 KLD & Recycle water is 235 KLD) for current operational plant, for which water is drawn from water reservoir/pond inside the plant.

**2.3.3. Fuel Requirement**

The reheating furnace is not considered as per EC

**2.3.4. Power Requirement & D.G set Details**

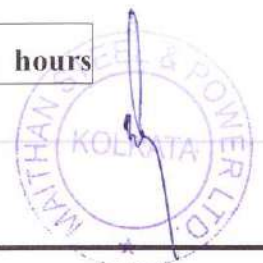
The power requirement of the existing project is 44 MVA.

Source:- Damodar Valley Corporation (DVC).

**2.3.4.1. DG Set Details**

The company has already installed DG Sets of capacity 1x380 KVA (Stack height of 14.5 m) and 2x750 KVA (Stack height of 12 m) for emergency purpose only.

S.No	DG Sets	Fuel	Operating hours
------	---------	------	-----------------



		Consumption (liter/year)	per year
1	380 KVA	1003	32.6
2	750 KVA	6775	92
3	750 KVA	11605	126.1

### 2.3.5. Manpower Requirement

Manpower of the existing plant is 550 persons (400 persons regular & 150 persons contractual).

## 2.4. MAJOR EQUIPMENT AND MACHINERIES

### 2.4.1. Technology & Process Description

The plant consists/ consist of 3 units viz.

A. Steel Melting Shop (SMS):

B. Rolling Mill:

C. Cold Drawing Workshop

#### A. Steel Melt Shop (SMS)

It consists of;

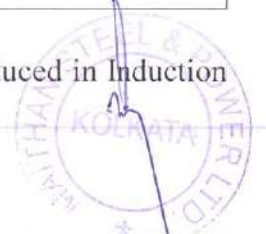
- 4 x 15 T & 3 x 20 T capacity Induction Furnaces.
- Daily production is (4 x 15 T + 3 x 20 T) x 10 Nos. of Heat = 1200 MT / Day
- Yearly production is 1200 MT x 312.5 days = **3,75,000 TPA**

### Raw Material Requirement

#### Raw material balance for SMS

S. No.	Name of the Raw Materials	As per EC accorded project (TPA)	Name of the product, by-product, waste generated	As per EC accorded project (TPA)
1.	Sponge Iron	3,70,000	Billet	3,75,000
2.	Scrap	20,000	IF Slag	45,500
3.	Pig Iron	35,500	IF Dust	5,000
4.	Pet Coke*	3700	CO <sup>2</sup>	-
	<b>Total</b>	<b>4,27,720</b>	<b>Total</b>	<b>4,25,500</b>

\* Sponge Iron contains approximately 7 % FeO which needs to be reduced in Induction



Furnace. Generally pet-coke is added in Induction furnace to reduce FeO and to adjust the carbon in the steel. The quantity of Carbon required to reduce FeO and adjust carbon in the metal in one ton of metal Iron is approximately 10 kg/ton liquid metal. Hence nearly  $(375000 \times 10 / 1000 = 3750 \text{ Ton/Year})$  of Pet coke shall be used. It is assumed that majority of this coke shall get converted to CO<sub>2</sub>.

### B. Rolling Mills

- **Major Equipment & Specifications/Scope of Supply –**
- 1 x 300 TPD & 1 x 600 TPD Rolling Mills are installed.
- The total production capacity is  $[(300 \text{ T} + 600 \text{ T}) \times 330 \text{ (working days)}] = 2,97,000 \text{ TP}$

#### Raw material balance for Rolling mill

Sr. No.	Name of the Raw Materials	As per EC accorded project (TPA)	Name of the product, by-product, waste generated	As per EC accorded project (TPA)
1.	Billet	3,00,000	TMT Rod, MS Round, Wire rod, strips and structural steel & flat products like strips etc.	2,97,000
2.	-	-	End cut/Mill scale	3,000
	<b>Total</b>	<b>3,00,000</b>	<b>Total</b>	<b>3,00,000</b>

### C. Cold Drawing Workshop:

- **Production Capacity from Cold Drawing Workshop:**
- Production from existing 100 TPD Cold Drawing Workshop =  $100 \text{ T} \times 330$  (considering 330 working days) = **33,000 TPA..... (i)**

#### Raw material balance for Cold drawing workshop

S. No.	Name of the Raw Materials	As per EC accorded project (TPA)	Name of the product, by-product, waste generated	As per EC accorded project (TPA)
1.	Low Carbon steel material/ Wire rod	33,000	Torkari, black wire, nails, corrugated sheets, Wire mesh, MS pipes & structural tubes etc.	33,000



## 2.5. Solid & Hazardous Waste Management

The details are tabulated below: -

**Table 2.7- Solid & Hazardous Waste Quantity & Management Scheme**

S. No.	Solid Waste	Quantity in TPA (as per existing project) (a)	Utilization Measures
1	IF Slag	45,500	Can replace 30 % concrete aggregate & landfill after iron recovery.
2	IF Dust	5,000	Reused in process
3	Mill scale/End Cut	3,000	To be recycled to IF as charge for melting.
4	MS Scrap	Varying Quantity	Recycled within the plant

Hazardous wastes like used oil (Consented quantity 0.178 TPA) is at present supplied to authorized recyclers. Waste or residue containing oil (Consented quantity 0.01 TPA) like cotton waste/jute containing oil are disposed to CHWTSDF. Hazardous Waste Authorization certificate is obtained from concerned department of WBPCB Vide Authorization memo no: 10/25 [HW]-4406 /2020 dated 28.01.2021, which is valid up to 30.10.2025.

## 2.6. Greenbelt Development & Plantation

Existing Plant area is 10.27 ha (25.38 acres). Existing greenbelt area is 4.3 hectares (41 % of the total area). Presently, 7189 trees i.e., ~1671 trees/ha have been planted so far.

### Action Plan for Greenbelt Development for Proposed Expansion

Description	Existing
Total Plant Area	10.27 ha
Total Area under Greenbelt	4.3 ha= 10.9 acres
No. of Plants	7,189
Trees/ha	1671 trees/ha*
Percentage	41 % of Existing Plant area

**\*In the existing plant area tree density will be increased upto 2500 trees/ha in this monsoon season.**



## 2.7. Fire Extinguishers

- Assumed 500 Nos of 9 kg each of CO<sub>2</sub> Type

## 2.8. Refrigerant Consumption

- 500 TR for cooling assumed.
- 500 x 0.5 kg/t - refrigerant consumption , R407 with GWP of 1627 kg/kg.

\*\*\*\*\*



## PART 3 - GHG INVENTORISATION AND MITIGATION STRATEGY

Carbon neutrality refers to a balance between carbon emissions and carbon absorption from the atmosphere in carbon sinks. General strategy to be adopted by project proponents to reduce GHG emissions and absorb carbon is defined below;

### Scope 1 Emissions Reduction Tips (Generic)

- a. Reduce fuel consumption and improve operational energy efficiency.
- b. Capital investments in newer, more energy-efficient equipment/technologies in future to lower operating costs while also lowering emissions.
- c. Conducting energy audits at workplaces where electricity consumption is high in order to identify better alternatives and save money on electricity consumption.
- d. For carbon neutrality, CER may be considered to be purchased based on calculated footprint. CERs are electronic certificates issued for greenhouse gas emission reductions from CDM project activities or programmes of activities (PoAs) in accordance with CDM rules and requirements.
- e. Use of solar power in the plant

### Scope 2 Emissions Reduction

It may be noted that when project proponents buy Renewable Energy credits (RECs), they enable more clean energy projects to supply power to the grid where they operate. Grid operators want to buy the cheapest power possible because energy from wind and solar plants is frequently less expensive than energy from coal-burning plants. As a result, by purchasing RECs, project proponents shall effectively be reducing carbon emissions by reducing brown power intake from the grid.

### Scope 3 Emission Reduction

Optimization of employee commute, business travel, rail transport, local Out sourcing are some of the measures taken to reduce Scope 3 emissions. **Vocal for local** should be the business policy of Proponents.





### 3.1. Identification of GHG Sources in the Plant

3.1.1. The GHG emission and removal activities of the proposed plant in general, are presented in the table below:

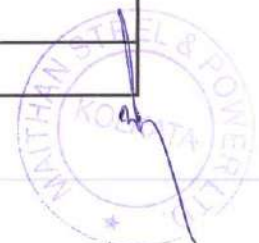
S. No.	GHG Emission related Activity	Scope
1	Diesel Consumption in DG Sets	Scope 1
2	CO2 type fire extinguishers refilled	Scope 1
3	Use of Refrigerants in AC and Refrigerators.	Scope 1
4	Electricity purchased from grid	Scope 2
5	Employees Commute	Scope 3
6	Transportation of Raw materials from nearest Source to the Plant	Scope 3
7	Any other activity from Section 2 Scope 3 of Part I of this report	Scope 3
8	Green Belt credits	Scope 1

### 3.1.2. Likely Credits/Removal Activities

- a) Green Belt Development.
- b) 100 % Solid Waste utilization as Substitute to valuable minerals
- c) Use of Renewable Energy (5% REC credits)
- d) Waste heat recovery from IF
- e) Plantation outside the factory premises.
- f) Rainwater harvesting.
- g) CO2 Capture and Storage.

### 3.2. Summary of GHG Calculation:

SUMMARY OF GHG EMISSIONS FROM EXISTING AND EXPANSION PROJECT	
Existing Plant	
	Unit- T CO2 /Year
STEEL SECTION	



Scope 1 Process Emissions	61760
Scope 1 Fuel at Site	220.72
Scope 1 Air conditioning and Fire extinguisher	415.75
Scope 2 Grid Electricity	264634
TOTAL	327030.47
Credits	13675.75
Net CO2 Emissions	313354.72
Crude Steel Production TPA	375000
Specific CO2 Emission, tCO2/tcs	<b>0.84</b>
<b>C. SCOPE 3 EMISSIONS.</b>	
Employees Commute	<b>0.121</b>
Transport of Raw Materials to Steel Plant	<b>0.670</b>

Detailed calculations are furnished in Excel Sheet Attached.

### 3.3. Green Belt Credit

The plantation and green belt development will also be taken care in the plant and the space reserved for plantation will be more than 41% of the total plant area. Project Proponent will take-up extensive green belt development by planting about 1000 trees per Ac. it has been proposed to develop 10 meters wide green belt along the periphery inside the factory premises.

On an average, one acre of new forest can sequester about 2.5 tons of carbon annually. Young trees absorb CO<sub>2</sub> at a rate of 6 kg per tree each year. Trees reach their most productive stage of carbon storage at about 10 years at which point they are estimated to absorb 22 kg of CO<sub>2</sub> per year. At that rate, they release enough oxygen back into the atmosphere to support two human beings. Planting 100 million trees could reduce an estimated 18 million tons of carbon per year and consequently save American consumers \$4 billion each year on utility bills.



### **3.4. GHG Emission Reduction, Carbon Capture & Storage and Utilization of CO2.**

#### **a. GHG Emission Reduction**

The proposed project has been implemented using state-of-the art technologies for optimum consumption of fossil fuel based energy and other resources. In addition, a very compact layout has been planned for the project to minimise in plant transportation and handling of raw materials and products. All raw materials and utilities shall be purchased from vendors/partners after ensuring that they also follow sustainable environment and energy management practices. The plant shall is certified to ISO 14001 .

The fines and scrap generated during the process are being recycled within the plant for use in the production process. Water consumption would also be optimized to reduce pumping energy consumption. Energy conservation and energy recovery facilities has been installed along with main plant and equipment shall be commissioned with the main plant. These facilities are summarized below:

1. Installation of LED lights and solar power generation on Roof Tops.
2. Use of variable speed drives to reduce power consumption in units operating on variable loads.
3. Use of large capacity loaders, dumpers, ladles and transport vehicles to reduce fuel consumption.
4. Maximum solid waste utilization to conserve resources by installation of briquetting facilities for fines collected from PCDs and road /floor sweeping.
5. Use of Slag in construction to enhance circular economy and reduce the emissions in cement sector thereby PP can claim credits for such sold quantities as per applicable emission factors).

#### **b. Carbon Sequestration**

Carbon sequestration offers greater hope for addressing the issue of controlling Global Warming. The following practices shall be adopted by PP to initiate carbon sequestration:

1. In immediate future 41 % percent of the plant area shall be covered under green belt with tree density of 2500 trees per ha.
2. In collaboration with local forest department trees shall be planted by PP in degraded forest land.

Maithan Steel Plant remains committed to the nation's pledge of achieving carbon



neutrality by 2070. Even after 2030, we will continue our efforts to bring down the emission intensity at the same or much faster rate.

### **3.5. Quality Assurance /Quality Control**

To ensure the credibility of the inventory, rigorous QA/QC procedures shall be followed to ensure the accuracy, transparency, and verifiability of the estimates.

The following issues shall be addressed:

1. PP shall ensure that the best and most accurate emission factors are being used. Custom emission factors shall be calculated as far as possible. The methodology used to compute the company or plant specific custom emission factors shall be documented and strictly followed with necessary QA/QC checks, in line with IPCC guidelines.
2. If plant-specific information on the amount of pet coke used as reducing / carburizing agent is available, this information shall be used. However, if this is not available, coke and petroleum consumption on a company-wide basis shall be used to estimate the mass of reducing agent.
3. Plant and company-wide activity data shall be checked to ensure that there is no double accounting.
4. Experts involved in GHG accounting shall be trained to account for energy consumption as per WSA and BEE guidelines.

### **3.6. Reporting and Documentation**

Maithan Steel is interested in auditing and certifying their GHG emissions. In order to ensure that estimates are verifiable, quantitative input data used to develop emission estimates shall be clearly documented, including listing of the relevant year. Records shall be maintained. Standard Operating Procedure shall be developed for calculations and data collection for verification and auditing of GHG inventory.

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Fuel Consumption										
DG Sets										
S.No	DG Set	Fuel Consumption (litre/hr)	Density of Fuel	Net Weight (T)	SCV KCF/kg	Emission Factor (CO2/T)	CO2 Emission (tonnes/yr)	CH4 Emission (Tons/Yr)	N2O Emission (Tons/Yr)	Total CO2
1	300KVA	100	0.82	0.82	0.000	74.1	2.20	2.01	0.21	11.47
1	750KVA/500KVA-1	8775	0.82	7.18	0.000	74.1	17.21	1.80	4.29	117.14
1	750KVA/500KVA-2	11,000	0.82	9.02	0.000	74.1	29.06	30.21	72.05	131.15
	<b>TOTAL</b>	11,975		10,92			<b>49.08</b>			<b>150.71</b>

Emission by plant										
S.No	Consumption Area	Quantity (kg/yr)	Density of oil/diesel	Net Weight (T)	SCV KCF/kg	Emission Factor (CO2/T)	CO2 Emission (tonnes/yr)	CO2e of CH4 Emission (Tons/Yr)	CO2e of N2O Emission (Tons/Yr)	Total CO2
	Plant	0	0.82	0	0.000	74.1	0.00	0.00	0.00	0.00

Fire Extinguisher										
S.No	Quantity	Capacity (kg)	CO2 Emission (Tons/Yr)							
1	50	5	4.5							

Refrigerant										
S.No	*Load (ton of Refrigeration)	Conversion Factor (kg/Ton)	Emission Factor (for R447)	CO2 Emission (tonnes/yr)						
1	50	0.3	1.57	23.55						
	<b>TOTAL CO2 Emission</b>			<b>23.55</b>						

<b>TOTAL Scope 1 CO2 Emission</b>	<b>23.55</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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Fire Extinguisher	50	5	4.5
Refrigerant	50	0.3	23.55

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