

COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE

**Enhancement of Sponge Iron Production from 117,000 to 177,000 TPA, Billet
Production from
192,000 to 318,000 TPA, Power generation from 12 to 27 MW and Installation of
1.2 MTPA Pellet
Plant at Jamuria Industrial Estate**

Vide letter No.: F-No. IA- J-11011/695/2009-IA-II (IND-I), dated – 20.02.2024

A. GENERAL CONDITIONS:

SL NO.	COMPLIANCE CONDITIONS	COMPLIANCE STATUS
i.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	All conditions has been complied against the Old EC. File no. J-11011/695/2009-IA.II(I).All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project it will be implemented and complied.
ii.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	The project proponent will be utilizing modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation shall be submitted to the IRO, MoEF&CC in this regard.

iii.	PP shall complete acquisition of balance project area and conversion for industrial purpose prior to commencement of project.	PP will be complied acquisition of balance project area and conversion for industrial purpose prior to commencement of project.
iv.	The nearest habitation is Ikhra village which is at a distance of 0.15 km in South direction of the project site. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include this location in its environmental monitoring programme.	The company has planted trees all around the factory premises. 33% green belt has already been developed in the factory premises with certified to DFO letter with respect to old EC and further plantation will be implemented for the upcoming monsoon season to achieve 33% greenbelt area for upcoming projects. DFO letter attached as ANNEXURE-1 .
v.	There is a Pond near Ikhra village at a distance of 0.085 km in SE of the project site. Also, there are other water bodies such as river within the study area of 10 km of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control	The company has developed a robust drainage system referred to the storm water layout to ensure proper drainage of water and ensuring zero discharge from our factory thus conserving our nearer water bosies. Further mitigation process will under take with due course of project implementation.

	measures shall be implemented. The PP shall ensure that there shall not be any discharge to the pond and in the adjacent area.	
vi.	The water requirement of 2024 m ³ /day shall be sourced from the ADDA (1830 m ³ /day) and recycled water (194 m ³ /day) after obtaining necessary permission from the Competent Authority.	Water permission as attached. Agreement attached as ANNEXURE-2 .
vii.	Three tier Green Belt shall be developed and maintained in at least 33% of the project area with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise	33% greenbelt area has already being developed against the old EC. Three tier Green Belt is already implemented and maintained in at least 33% of the project area with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Ikhra village. Compliance status in this regard, shall be submitted to

	levels towards Ikhra village. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	concerned Regional Office of the MoEF&CC. Photos of Green Belt attached as ANNEXURE -3 .
viii.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 5.0 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	All the commitments made towards socio-economic development of the nearby villages will be satisfactorily implemented definitely. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 5.0 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
ix.	As committed, PP shall adopt Village Ikhra and undertake village adoption programme, prepare and implement the action plan to develop them into model villages.	The condition will be complied shortly.
x.	The PP shall improve the housekeeping at the project site as committed.	Complied.

B. GENERAL CONDITIONS:

SL NO.	COMPLIANCE CONDITIONS	COMPLIANCE STATUS
1. Statutory compliance:		
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	The conditions stipulated to Old EC granted. We will make sure to adhere to the condition in the New EC as well. It will be complied.
ii.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Complied.
2. Air quality monitoring and preservation		
i.	Prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these	The PP has installed CEMS in all the existing facilities as per the guidelines issued by the MOEF&CC and WBPCB. Alongside we also have installed one number of

	<p>systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>CAAQMS for parameters mentioned in the EC under the EPA under 1996. Further we will install CEMS in all places required in our upcoming project and also comply and install CAAQMS as mentioned in our EC. Also note every six-monthly testing is done through 3rd party agency and calibration of all equipment is done on an annual basis. The six-monthly testing reports for air monitoring are attached as Annexure -4.</p>
ii.	<p>The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.</p>	<p>PP has already installed one number of CAAQMS. Balance CAAQMS will be insulted. This point will be complied when the project work commences.</p>
iii.	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once in</p>	<p>It is being complied with already the latest report attached as ANNEXURE – 5.</p>

	every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		
iv.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.		It is being complied, sampling facility for existing unit and we will provide sampling facilities at process stacks for our upcoming project.
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.		APC system already install in existing unit and will comply for new unit.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.		Proper maintenance and check-up have been done for existing bag filters. The project proponent will be providing leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.		Sufficient number of mobile or stationery vacuum cleaners are provided to clean plant roads, shop floors, roofs, regularly.
viii.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent		We always use covered vehicle for conveying of raw material. We will make sure to continue maintaining the

	uses leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.		same. Photos attached as ANNEXURE-6.
ix.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.		Iron ore fines will be used in the pellet plant and until then we sell the iron fines to nearby pellet plants/ pig iron plants. And coke fines are used in our AFBC boiler, lime fines are used in our SMS plant. It is being complied with.
x.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.		The project proponent has provided primary and secondary fume extraction system at all heat treatment furnaces and stays committed to fulfilling the same in upcoming expansion.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.		We keep all our raw material within covered shed or covered with tarpaulin and will continue to do the same.
xii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.		It is being complied. Photos attaches as ANNEXURE-7.
xiii.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.		For existing plant, it is compiled and will be compiled for upcoming plant.
xiv.	The project proponent shall adopt the Clean Air practices like		The project proponent has adopted the Clean Air

	<p>mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.</p>		<p>practices for existing plant like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. We also have ordered EV vehicles for transport of our staff members showing our commitment for switching to cleaner source of fuel and we will continue to install pollution device as when required.</p>
xv.	<p>Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.</p>		<p>Bag filters is being cleaned regularly and efficiency of bag filter system is being monitored at regular intervals and it will be maintained for upcoming expansions as well.</p>
xvi.	<p>Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.</p>		<p>Water Sprinklers/Water mist system has been installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.</p>

		Photos attached as ANNEXURE-19.
xvii.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed	The particulate matter emissions from the process stacks is less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed. And it will be maintained.
xviii.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	It will be complied. a) Fog and mist sprinkler is installed. b) We use covered vehicle for transport of materials. c) Wheel washing mechanism is being carried out.
xix.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare	We are in compliance of the same in our existing 1 x 12 MW CPP and we will continue to do the same in our upcoming CPP projects as well.

	with permissible limits as per Indian Factories Act, 1948 shall be implemented.		
xx.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.		It is being complied.
xxi.	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.		We will provide the online stack monitoring facility for the Induction Furnace units in our plant. Kindly take note that we do not have RHF in our plant as we only use our own M/S Billets in an on-line system for production of TMT Bars. The 6-Monthly monitoring report will be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.
xxii.	Low NO _x Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.		Not required as we use only our billets in an online system hence, we have not installed RHF in our plant.
3. Water quality monitoring and preservation			
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in		The project proponent will install 24x7 continuous effluent monitoring system with respect to standards

	Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. Report attached as ANNEXURE – 8 (existing test report).
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.		The project proponent already monitors regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories. Report attached as Annexure – 9 .
iii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check		Garland drains and collection pits provided for each stock pile to arrest the run-off in the event of heavy rains and to

	the water pollution due to surface run off.		check the water pollution due to surface run off. Layout plan attached as ANNUXRE – 10.
iv.	Water meters shall be provided at the inlet to all unit processes in the plants.		Water meters has already installed provided at the inlet to all unit processes in the plants. Photos attached as ANNEXURE-11.
v.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.		It will be complied.
vi.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.		It is being complied in the existing facilities. We will install ETP if required in the upcoming project.
vii.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented		All stockyards have impervious flooring and already equipped with water spray system for dust suppression. Stock yards has garland drains and catch pits to trap the run off material and

	as per the action plan submitted in EIA/EMP report.		shall be implemented as per the action plan submitted in EIA/EMP report. Photos attached as ANNEXURE-12.
viii.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.		Rain water harvesting already implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report. Report and photos attached as ANNEXURE-13.
ix.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.		The project proponent will be providing the ETP if required for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
x.	Air Cooled condensers shall be used in the captive power plant.		It will be complied with for our upcoming CPP Projects. Existing 1 x 12 MW CPP does have an ACC.
IV. Noise monitoring and prevention			
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.		Noise pollution already complied as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer

			of the Ministry as a part of six-monthly compliance report. Report attached as ANNEXURE – 14.
li.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.		The ambient noise levels will be conformed to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
iii.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.		PP will identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
V. Energy Conservation measures			
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.		Solar power has already been installed. Photos attached as ANNEXURE-15.
ii.	Provide LED lights in their offices and residential areas.		Already complied. Photos attached as ANNEXURE-16.
lii.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.		Not Applicable for the project as no RHF is installed.

iv.	Practice hot charging of slabs and billets/blooms as far as possible.		It is being complied.
v.	Ensure installation of regenerative type burners on all reheating furnaces.		Not Applicable for the project as no RHF is installed.
vi.	The project proponent shall provide waste heat recovery system on the DRI Kilns.		The project proponent has provided waste heat recovery system on the DRI Kilns.
vii.	The dolochar generated shall be used for power generation.		The dolochar generated is being used for power generation.
viii.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.		NA
ix.	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.		It is being complied.
VI. Waste management			
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.		Oil Collection pits will be provided and rest used oil will be send to authorized recycler.
ii.	Kitchen waste shall be composted or converted to biogas for further use.		Kitchen waste will be composted or converted to biogas for further use
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further		MOU for the purpose of sale of Fly Ash has already been made and is being complied

	utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.		with refer to the document as attached in ANNEXURE-17 .
iv.	<p>The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report</p>		Plastic Waste Management plan will be complied shortly and reports will be submitted.

	being submitted by the project proponents.		
v.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.		It is being complied. Disposal details attached as ANNEXURE-18.
vi.	<p>Solid waste utilization</p> <p>a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.</p> <p>b. PP shall recycle/reuse solid waste generated in the plant as far as possible.</p> <p>c. Used refractories shall be recycled as far as possible.</p>		We have slag crusher installed to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. And balance solid waste is being used for land filling.
VII. Green Belt			
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.		The project proponent will prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
ii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/balancing, carbon sequestration activities and		It will be completed.

	carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames		
lii.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.		Already complied. Photos attached as Annexure-3 .
VIII. Public hearing and Human health issues			
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.		It will be complied shortly.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.		The project proponent will carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
lii.	Provision shall be made for the housing of construction labour		Provision will be made for the housing of construction

	<p>within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project</p>		<p>labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP.</p>
iv.	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained.</p>		<p>It will be complied.</p>
IX. Environment Management			
i.	<p>The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.</p>		<p>The project proponent always maintains their Corporate Environment Responsibility (CER).</p>
ii.	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental</p>		<p>It will be complied.</p>

	<p>policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report</p>		
iii.	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>		<p>A separate Environmental Cell both at the project and company head quarter level will be complied.</p>
iv.	<p>Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.</p>		<p>Performance test will be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.</p>
X. Miscellaneous			

i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.		It has been complied with as required.
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.		It has been complied with as required.
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.		It has been complied with as required.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO ₂ , NO _x		The project proponent will be monitor the criteria pollutants level namely; PM10, SO ₂ ,

	(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.		NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
v.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented.		We have already developed all our major internal roads in the existing facilities and all the roads are casted. We will make sure to develop the same as and when required in the upcoming expansion as well.
vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.		The project proponent already submits 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.
vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as		The project proponent already submits the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the

	amended subsequently and put on the website of the company.		Environment (Protection) Rules, 1986, as amended subsequently and puts it up on the website of the company
viii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.		The project proponent will be informing 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.
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.		It will be complied.
x.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance		NA as it is notified industrial estate.

	report to the concerned Regional Office of the MoEF&CC.		
xi.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.		It will be complied.
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).		Already compiled.
xiii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.		Already complied with.
xiv.	The Ministry may revoke or suspend the clearance, if		Noted and complied with.

	implementation of any of the above conditions is not satisfactory.		
xv.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.		The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will be implement these conditions.
xvi.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.		It will be complied.
xvii.	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.		The project authorities would be extending full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports



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 E-mail- dfodurgapur@yahoo.in
 Office Tel. / FAX- 0343-2537229



Memo No. 3192 / 2-50(A)

Dated, Durgapur, The 09/09/2022

✓ To :: The Authorised Signatory
 Maan Steel & Power Ltd.
 Jamuria Industrial Estate
 Ikhra, Paschim Bardhaman

Sub. :: **Approval of plantation plan.**

Ref. :: Your application Dt. 10.08.2022.

With reference to the above, the plantation plan submitted by you is find OK in the field and hereby approved by the undersigned with the following conditions.

1. The approval is purely technical i.e. species composition, planting pattern etc. is approved considering the total land area and land under plantation.
2. Approval of plantation plan given as per sub sec (4) of sec 9 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.
3. The approval of green belt is certified by the Range Officer, Asansol (T) Range that 31290.05 sq. mt. i.e. 33% of green coverage completed by the applicant out of the total industrial area 94817.12 sq. mt. of Maan Steel & Power Ltd.

Encl: Approved plantation plan.

Divisional Forest Officer
 Durgapur Division

Memo No. 3193 / 2-50(A)

Dated, Durgapur, The 09/09/2022

Copy forwarded for to the Range Officer, Asansol(T) Range for his information and necessary action. This is in reference to his enquiry report letter no. 380/AL-2, Dt. 05.09.2022.

Self- B. Mondal

Divisional Forest Officer
 Durgapur Division

To Mr. K. Mukherjee

GOVERNMENT OF WEST BENGAL
OFFICE OF THE EXECUTIVE ENGINEER
R.C.F.A. Division - 1/Public Health Engineering Directorate
Ismile, Vivekananda Pally, Asansol

Memo No. 66 / RCD-1

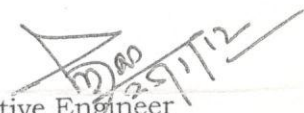
Dated; Asansol, The 25/01/12

To
The Executive Engineer
Asansol Durgapur Development Authority,
Durgapur.

Sub: Water Supply to Jamuria Industrial Estate.
Ref: Memo no. ADDA/ASN/CN/686/ED-OSD/387 dated 29.12.2011.

In connection with your above referred letter, I am furnishing the latest status related to the water supply to industries as referred to your letter.

1. Gagan Ferrotech Limited - A small inter connection work at Ekra Railway crossing is going on and to be completed within 10 days. Water will be supplied to this industry after completion of this job.
 2. Calster Sponge Limited -
 3. Super Smelters Ltd. -
 4. Maan Steel & Power Limited -
- } Connection completed and Trial Run done successfully.


Executive Engineer
R.C.F.A. Div-I
P.H.Engg. Dte.

Memo No. / RCD-1

Dated; Asansol, The

Copy forwarded for kind information to: -

1. The Superintending Engineer, RCFA W/S Circle, PHE Dte.
2. The Assistant Engineer, RCFA Division-I, PHE Dte.

Executive Engineer
R.C.F.A. Div-I
P.H.Engg. Dte.

Asansol Office :

Phone : (0341) 225 - 7377 / 78

Fax : (0341) 225 - 7379

E-mail : ceoaddaasi@dataone.in

Durgapur Office :

Phone : (0343) 254 - 8815 / 6716 / 6889

Fax : (0343) 254 - 6665 / 5793

E-mail : dgp_addadgp@sancharnet.in

No. ADDA/ ASA/1817/CN/686

Date 29-10-08

To,

G. L. A. Metals Pvt. Ltd.
Jamuria Industrial Estate.
P.O. Jamuria.

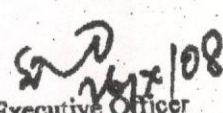
Sir,

Please find enclosed the list of Industries of Jamuria Steel Industrial Estate showing the share of amount of contribution towards 2.0 MGD water supply scheme.

You are requested to deposit the share by 21st Nov. 2008 to the office of Asansol Durgapur Development Authority (ADDA) at Asansol through Bank Draft / Cheque honouring "Asansol Durgapur Development Authority" payable at Asansol.

Encl.: - As stated

Yours faithfully


For Chief Executive Officer
Asansol Durgapur Development Authority

Memo No:

Date:

Copy to: -

1. C.A to C.E.O, A.D.D.A

For Chief Executive Officer
Asansol Durgapur Development Authority

Asansol Durgapur Development Authority

Durgapur office :-
1st Administrative Building,
Durgapur- 713216

Asansol office :-
1st floor near Court Compound, behind Girls Collage
Asansol- 4

Ref:- Water rate calculation according to respective demand of the following firms.

SL.No.	Name of Industries	Proposed consumption of water / day	Rate / Litre	Amount
1	Damodar Ispat Ltd.	3.0 lacs Ltr./day	4.92 / Litre	14.76 lacs.
2	Gagan Commodities Pvt. Ltd.	15.0 Lacs Ltr./day	4.92 / Litre	73.80 lacs.
3	Kunjia Bihari Steel Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
4	Bhegwati Sponge Pvt. Ltd.	9.0 Lacs Ltr./day	4.92 / Litre	44.28 lacs.
5	Satyam Smelters Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
6	Calster Sponge Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
7	Rajshri Iron Industries Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
8	Shivam Dhatu Udyog Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
9	Super Smellers Ltd.	15.0 Lacs Ltr./day	4.92 / Litre	73.80 lacs.
10	Shree Ram Cast Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
✓ 11	G & A Metals Pvt. Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
12	MB Sponge & Power Ltd.	6.0 Lacs Ltr./ Day	4.92 / Litre	29.52 lacs.
Total = 90.00 Lacs Ltr. / day				Total Rs. = 442.80 Lakhs.
i.e. 2.00 MGD approx.				

Considering 2.0 MGD water supply as per Industrial Association water demand an estimate has been prepared and submitted by Executive Engineer R.C.F.A Div.- I PHE Dte. Asansol, which estimated cost is Rs. 5,42,91,627.00 (Say Rupees Five Crore Forty Two Laks Ninety One Thousand Six Hundred Twenty Seven.)

Prepared By: *[Signature]*



ASANSOL MUNICIPAL CORPORATION

Dr. G. R. Mitra Sarani, Asansol, Paschim Bardhaman, West Bengal

Website : www.asansolmunicipalcorporation.org ♦ E-mail : mayor.amc@gmail.com



Head office : 0341 230 2219 / 9476

Ref. No To, 0893/1/B-1/17/AMC

Date 05/07/20

MAAN STEEL & POWER LIMITED,
Maanheruka House, 58/1, Sarani Bose Road,
Kolkata – 700 025, WB, INDIA

In reference to your application, dated 15.03.2021 seeking bulk water connection, this is to inform you to deposit a sum of Rs. 2,82,975.00 (Rupees two lakh eighty two thousand nine hundred seventy five) for taking up the work. Xerox copy of the estimate is enclosed for payment. He will have also pay water charge @ Rs. 13/- K.L. after connection.

By
Manoj
05/7/2021
Executive Engineer
Asansol Municipal Corporation.

Memo No. _____

Dated. E.E.
AMC

Copy forwarded for information & necessary action to :-

1. Chairperson, BOA, Asansol Municipal Corporation
2. Commissioner, Asansol Municipal Corporation.
3. Secretary, Asansol Municipal Corporation.
4. AE, Asansol Municipal Corporation
5. Cashier, Asansol Municipal Corporation.
6. Office Copy.

Executive Engineer
Asansol Municipal Corporation.

Book No. 6367

Form No. 40

No. 636668

ASANSOL MUNICIPAL CORPORATION

MISCELLANEOUS RECEIPT

Received from Maan Steel Tower Limited.

Ref No - 0893/B-1/J/AMC.

on account of Bulk Water Connection Fee.

Rupees (in words) Two Lakh Eighty Two Thousand nine hundred -
Seventy five only (Figures) Rs. 2,82,975/- p. 00/2

Date 02/07/2021

Signature of
Collector



[Signature]
Cashier
Asansol Municipal Corporation



ASANSOL MUNICIPAL CORPORATION

Dr. G. R. Mitra Sarani, Asansol, Paschim Bardhaman, West Bengal
Website : www.asansolmunicipalcorporation.org ♦ E-mail : mayor.amc@gmail.com



Head office : 0341 230 2219 / 9476

Ref. No. 0932/Borough-1/A.M.C(3)

Date : 09/07/2021

To,
MAAN STEEL & POWER LIMITED,
Maanheruka House, 58/1, Sarani Bose Road,
Kolkata – 700 025, WB, INDIA.

Sub.- N.O.C. for 8" dia Industrial pipe line for MAAN STEEL & POWER LIMITED.

In reference to the above MAAN STEEL & POWER LIMITED has deposited the fees of AMC vide demand notice memo No- 0893/1(6)/B-1/J/AMC, dt- 05.07.21 of Rs. 2,82,975.00 (Rupees two lakh eighty two thousand nine hundred and seventy five only)) so you are hereby directed to complete the work under technical supervision of AMC within 03 months from the received of NOC.

You will have to pay water charge @ Rs 13/KL after connection.

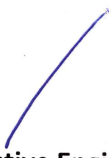
Memo No.-

Dated:

- 1) Commissioner, Asansol Municipal Corporation.
- 2) Secretary, Asansol Municipal Corporation.
- 3) S.E, Asansol Municipal Corporation.
- 4) Cashier, Asansol Municipal Corporation.
- 5) Office Copy.

mmv
09/07/2021

Executive Engineer
Asansol Municipal Corporation
Executive Engineer
Asansol Municipal Corporation


Executive Engineer
Asansol Municipal Corporation

13th July 2021

To,

The Members of Administrators of Corporation,
Boro Office, Jamuria,
Paschim Bardhaman,
West Bengal.

Sub : Request for confirmation of water supply capacity in a new connection provided to us vide 200 mm Dia D I Pipe, over and above existing connection of 100 mm dia D I Pipe which has water supply capacity of 6 lakh ltr per day.

Dear Sir,

We request you to please certify us water supply capacity in a new connection provided to us vide 200 mm Dia D I Pipe (Demand notice memo no. 0893/1(6)/B-1/J/AMC, dt – 05.07.21 and NOC dated 09.07.21), over and above existing connection of 100 mm dia D I Pipe which has water supply capacity of 6 lakh ltr per day.

Your kind co-operation and early response in this regard will be highly appreciated.

Thanking you,

Yours faithfully,

For Maan Steel and Power Limited



Authorized Signatory

Received without verification of the content
Date ...13/07/21
Signature
For AMC at Jamuria



ASANSOL MUNICIPAL CORPORATION

Dr. G. R. Mitra Sarani, Asansol, Paschim Bardhaman, West Bengal

Website : www.asansolmunicipalcorporation.org ♦ E-mail : mayor.amc@gmail.com



Head office : 0341 230 2219 / 9476

Ref. No. 0934/Borough-1/A.M.C(J)

Date : 13/07/2021

To

MAAN STEEL & POWER LIMITED,

Maanheruka House, 58/1, Sarani Bose Road,

Kolkata – 700 025, WB, INDIA

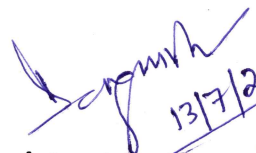
Sub:- Your request for allocation of 14 lakh litre water per day for your industrial/domestic requirement.

Ref:- your letter dated- 13.07.2021

With reference to the above context, this is to inform you that, AMC is now in process of augmentation of Jamuria Water Supply Scheme from 3.5 MGD to 7.00 MGD and the project work is in progress.

It will take some time to complete the work. Soon after that, we will try to fulfil your prayer.

Thanking you.


13/7/21
A.E.
AMC
At Jamuria
Assistant Engineer
Borough-I, Jamuria
Asansol Municipal Corporation.

PHOTOS OF GREEN BELT







ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/I	Report No.	: ENV/56/March/TR(A)/1/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler (CPP)	Height of Stack (mtr.) (from G. L.)	: 35.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 2.2
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 30.0
Capacity	: 30 TPH	Emission Due to	: Combustion of Coal & Dolochar
Fuel Used	: Coal & Dolochar	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Coal - 01 TPH & Dolochar - 08 TPH		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 123.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.73	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 87824.34	N.A.
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	: 605.51	500.0
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 189.10	300.0
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.2	N.A.
8.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	: 6.8	N.A.
9.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0	1.0
10.	a) Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 22.81	N.A.
	b) Concentration of Particulate Matter (at 6% O ₂)	mg/Nm ³		: 24.09	30.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands



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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/II	Report No.	: ENV/56/March/TR(A)/II/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No.1 & 2) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.50
Capacity	: Rated - 95 TPD (each), Running - 95 TPD (each)	Height of sampling port (mtr.) (from G.L.)	: --
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 3.2 TPH (each kiln)		
Pollution Control Device	: Individual W.H.R.B and Individual E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 130.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.70	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 52490.56	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 393.16	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.6	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0	1.0
8.	a) Concentration of Particulate Matter (at 10.6% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 38.64	N.A.
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 43.74	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: During monitoring both Kilns were in operation.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/III	Report No.	: ENV/56/March/TR(A)/III/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Induction Furnace (No.3 & 4) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 29.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.1
Capacity	: 15 MT/Heat (each)	Height of sampling port (mtr.) (from G.L.)	: 17.5
Emission Due to	: Melting of Pig Iron, Sponge Iron & Scrap		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 62.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.53	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 35096.28	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 31.13	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: During monitoring both Induction Furnace were running in operation.
: Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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Overseas : UAE ■ Qatar ■ Netherlands



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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/IV	Report No.	: ENV/56/March/TR(A)/IV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Cooler Discharge of DRI - 1 & 2		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.87
Capacity	: 95 TPD x 2	Height of sampling port (mtr.) (from G.L.)	: 12.0
Emission Due to	: Process Activity (Cooling of Sponge Iron)		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Common Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 40.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.47	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 21335.39	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 41.85	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/V	Report No.	: ENV/56/March/TR(A)/V/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Cooler Discharge of DRI -3 (200 TPD) & Product House (common) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.72
Capacity	: 200 TPD	Height of sampling port (mtr.) (from G.L.)	: 8.0
Emission Due to	: Process Activity (Cooling & Handling of Sponge Iron)		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Common Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 38.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.03	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 12696.10	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 26.51	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/VI	Report No.	: ENV/56/March/TR(A)/VI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Separation House & I-Bin of DRI - 1, 2 & 3 attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.0
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 9.12
Emission Due to	: Process Activity (Handling of Sponge Iron)		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Common Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 39.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 761.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.49	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 25675.67	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.98	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 12.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/VII	Report No.	: ENV/56/March/TR(A)/VII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Coal Crushing Unit (DRI)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 28.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.75
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 11.50
Emission Due to	: During Processing		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 47.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.36	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 12418.86	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 41.77	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/VIII	Report No.	: ENV/56/March/TR(A)/VIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Induction Furnace (No.1 & 2) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 33.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.9144
Capacity	: 15 MT/Heat (each)	Height of sampling port (mtr.) (from G.L.)	: 10.66
Emission Due to	: Melting of Pig Iron, Sponge Iron & Scrap		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 58.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.07	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 21467.39	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 38.50	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: During monitoring both furnace were running in operation.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/IX	Report No.	: ENV/56/March/TR(A)/IX/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Iron Circuit		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 28.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.75
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 12.0
Emission Due to	: During Processing		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 42.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.29	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 18595.54	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 28.55	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/X	Report No.	: ENV/56/March/TR(A)/X/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Stock House		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 28.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.75
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 12.0
Emission Due to	: During Processing		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 40.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.46	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 23622.04	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.11	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XI	Report No.	: ENV/56/March/TR(A)/XI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Diesel Generator (DRI Division) (Acoustic Enclosure attached)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 9.12
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.20
Capacity	: 500 KVA	Height of sampling port (mtr.) (from G.L.)	: Final Discharging Point
Emission Due to	: Combustion of H.S.D		
Fuel Used	: H.S.D	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 75 liter./hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 246.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.23	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1057.01	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 77.90	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 7.8	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 71.48	150.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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Authorised Signatory :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XII	Report No.	: ENV/56/March/TR(A)/XII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Diesel Generator (SMS Division) (Acoustic Enclosure attached)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 9.12
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.20
Capacity	: 500 KVA	Height of sampling port (mtr.) (from G.L.)	: Final Discharging Point
Emission Due to	: Combustion of H.S.D		
Fuel Used	: H.S.D	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 75 liter./hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 270.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.60	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 2) : 2019	: 1033.32	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part III)	: 88.07	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 8.0	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 70.02	150.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XIII	Report No.	: ENV/56/March/TR(A)/XIII/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Coal Handling Plant		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.75
Capacity	: 50 TPH	Height of sampling port (mtr.) (from G.L.)	: --
Emission Due to	: During Processing		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 34.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.69	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 22278.64	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 41.82	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 05.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XIV	Report No.	: ENV/56/March/TR(A)/XIV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No.3)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 45.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 3.50
Capacity	: 200 TPD	Height of sampling port (mtr.) (from G.L.)	: 20.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 8.7 TPH		
Pollution Control Device	: W.H.R.B and E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 105.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 762.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 7.43	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 192085.58	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 360.98	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.0	N.A.
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0	1.0
8.	a) Concentration of Particulate Matter (at 11% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 17.67	N.A.
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³		: 19.27	50.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XIX	Report No.	: ENV/56/March/TR(A)/XIX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near Induction Furnace Area (Plant Inside)
2. Duration of Sampling : 08 hrs. (10:00 a.m. - 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 65.6
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT	LIMIT
1.	Concentration of SPM	µg/m ³	IS 5182 (Part 4) : 2019	287.14	5000.0

Remarks : Limit as per The Factory Act - 1948.
: Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XIX	Report No.	: ENV/56/March/TR(A)/XIX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Near Induction Furnace Area (Plant Inside)
2. Duration of Sampling : 08 hrs. (10:00 a.m. - 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 65.6
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of RPM	µg/m ³	IS 5182 (PART 23) : 2019	154.12	N.A.
2.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	16.0	N.A.
5.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.06	N.A.

Remarks : N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XX	Report No.	: ENV/56/March/TR(A)/XX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Coal Shed
2. Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 31.0
2. Average Relative Humidity (%) : 65.2
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT	LIMIT
1.	Concentration of SPM	µg/m ³	IS 5182 (Part 4) : 2019	391.55	5000.0

Remarks : Limit as per The Factory Act - 1948.
: Result relates only to the sample tested.

Reviewed By :

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(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XX	Report No.	: ENV/56/March/TR(A)/XX/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Coal Shed
2. Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 31.0
2. Average Relative Humidity (%) : 65.2
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT	LIMIT
1.	Concentration of RPM	µg/m ³	IS 5182 (PART 23) : 2019	139.61	N.A.
2.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.82	N.A.
3.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.48	N.A.

Remarks : N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
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Authorised Signatory :

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(Dr. Ajoy Paul)
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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XXI	Report No.	: ENV/56/March/TR(A)/XXI/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Handling Area (Iron-Ore Section)
2. Duration of Sampling : 08 hrs. (11:00 a.m. - 07:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 64.2
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT	LIMIT
1.	Concentration of SPM	µg/m ³	IS 5182 (Part 4) : 2019	361.57	5000.0

Remarks : Limit as per The Factory Act - 1948.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 16.03.2024		
		Date of Issue	: 18.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/56/March/A/XXI	Report No.	: ENV/56/March/TR(A)/XXI/23-24

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Handling Area (Iron-Ore Section)
2. Duration of Sampling : 08 hrs. (11:00 a.m. - 07:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 64.2
3. Barometric Pressure (mm of Hg) : 761.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT	LIMIT
1.	Concentration of RPM	µg/m ³	IS 5182 (PART 23) : 2019	146.71	N.A.
2.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	7.65	N.A.
3.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	23.01	N.A.

Remarks : N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

<End of Report>

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COVERED TRANSPORTATION

ANNEXURE-6



PHOTOS OF VENTILATION





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ANNEXURE-8

FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Jamuria, Paschim Burdwan - 713301	Sampling Date	: 13.03.2024		
		Period of Analysis	: 16.03.2024 - 21.03.2024		
		Date of Issue	: 23.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Domestic Effluent Water (Grab)
Location	: Final Domestic Outlet-Soak pit	Sample Condition	: Sealed	Sample ID No.	: ENV/23/March/W
Report No.	: ENV/23/March/TR(W)/23-24				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	-	6.78	5.5-9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	26.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.3	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	87.12	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	26.0	30.0

Remarks : a) Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

b) Sample Collected by Envirocheck and sent to lab for testing in sealed condition.

c) Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

<End of Report>

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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Mouza – Ikhra, Ward No. – 9, P.O. – Nandi, Dist. – Paschim Bardhaman, Pin - 713362	Sampling Date	: 12.03.2024		
		Period of Analysis	: 15.03.2024 – 21.03.2024		
		Date of Issue	: 23.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Borewell (Near Main Gate)	Sample Condition	: Sealed	ULR No.	: TC60142400000238F

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	Colour	APHA 23 rd Edition, 2120 B : 2017	Hazen	1.0
2.	Odour	APHA 23 rd Ed., 2150 B : 2017	--	Agreeable
3.	pH	APHA 23 rd Ed., H+B : 2017	--	6.80
4.	Taste	APHA 23 rd Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23 rd Ed., 2130 N : 2017	NTU	1.80
6.	Total Dissolved Solids	APHA 23 rd Ed., 2540-C : 2017	mg./l	480.0
7.	Aluminium	APHA 23 rd Ed., 3500 Al-B : 2017	mg./l	<0.02
8.	Boron	APHA 23 rd Ed., 3500 Al-B : 2017	mg./l	<0.1
9.	Calcium	APHA 23 rd Ed., 3500 Ca-B : 2017	mg./l	36.07
10.	Chloride	APHA 23 rd Ed., 4500Cl-B/D : 2017	mg./l	59.98
11.	Copper	APHA 23 rd Ed., 3111B : 2017	mg./l	0.50
12.	Fluoride	APHA 23 rd Ed., 4500 F-D : 2017	mg./l	<0.1
13.	Free Residual Chlorine	APHA 23 rd Ed., 4500 Cl-B : 2017	mg./l	<0.1
14.	Iron	APHA 23 rd Ed., 3111B : 2017	mg./l	0.62
15.	Magnesium	APHA 23 rd Ed., 3500 Mg-B : 2017	mg./l	9.6
16.	Manganese	APHA 23 rd Ed., 3111B : 2017	mg./l	<0.05
17.	Mineral Oil	APHA 23 rd Ed., 5520 B : 2017	mg./l	<0.01
18.	Nitrate	APHA 23 rd Ed., 4500 NO ₃ - E : 2017	mg./l	3.50
19.	Phenolic Compounds	APHA 23 rd Ed., 5530 C : 2017	mg./l	<0.001
20.	Selenium	IS 15303: 2003, RA 2014	mg./l	<0.01
21.	Sulphate	APHA 23 rd Ed., SO ₄ -E : 2017	mg./l	<1.0
22.	Total Alkalinity	APHA 23 rd Ed., 2320 B : 2017	mg./l	61.50
23.	Total Hardness	APHA 23 rd Ed., 2340 C : 2017	mg./l	120.0
24.	Zinc	APHA 23 rd Ed., 3111 B : 2017	mg./l	130.0
25.	Cadmium	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.62
26.	Cyanide	APHA 23 rd Ed., 4500 CN D/E/F : 2017	mg./l	<0.01
27.	Lead	APHA 23 rd Ed., 3111 B : 2017	mg./l	<0.005
28.	Mercury	APHA 23 rd Ed., 3111B : 2017	mg./l	<0.001
29.	Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg./l	<0.01
30.	Total Chromium	APHA 23 rd Ed., 3111 Cr-B : 2017	mg./l	<0.02

Remarks : a) Result relates only to the sample tested.

b) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Durbadal Chakraborty

(Durbadal Chakraborty)
(Dy. Quality Manager)

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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Maan Steel & Power Ltd.	Type of Industry	: Integrated Steel Plant		
Address	: Jamuria Industrial Estate, Mouza – Ikhra, Ward No. – 9, P.O. – Nandi, Dist. – Paschim Bardhaman, Pin - 713362	Sampling Date	: 12.03.2024		
		Period of Analysis	: 15.03.2024 – 16.03.2024		
		Date of Issue	: 23.03.2024		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Borewell (Near Main Gate)	Sample Condition	: Sealed	ULR No.	: TC60142400000238F

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	Total Coliform	IS 15185 : 2016	CFU/100ml.	<1.0
2.	E. Coli	IS 15185 : 2016	CFU/100ml.	<1.0

Remarks : a) CFU indicates Colony Forming Unit.
b) <1.0 indicates 'Absent' No Colony Developed, i.e. Co Coliform Found.
c) Result relates only to the sample tested.
d) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Approved By :

(Priyanka Mukherjee)
(Technical Manager, Microbiology)

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands

PHOTOS OF WATER METER







PHOTOS OF STOCKYARDS





PHOTOS OF RAIN WATER HARVESTING





ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

ANNEXURE-14



FORMAT NO. ENV/FM/53

TEST REPORT

- Name of Industry / Company / Factory / Office : Maan Steel & Power Limited
- Address : Jamuria Industrial Estate, Jamuria, District - Paschim Bardhaman
- Type of Industry : Steel & Power Plant
- Sampling Plan & Procedure : ENV/SOP/02
- Deviation from the Sampling Method & Plan : No
- Type of Sample : Noise Level Study
- Sample ID : ENV/14/March/N Report ID : ENV/14/March/TR(N)/23-24
- Date of Study : 12/03/2024 Reporting Date : 15/03/2024
- Method No. : IS 15575 (Part 2), 2022 Time of Duration of Noise : 20 Minutes
- Sample Monitored by : Mr. Biswajit Dey Height from Ground Level : 4 Feet.

RESULT OF NOISE LEVEL STUDY

Sl. No.	Location Name	dB (A) - (Noise Data)										Time (Hours)	Min dB (A)	Max dB (A)	Leq dB (A)	Limit in LeqdB(A)
1.	Near Main Gate	67.8	65.9	69.8	70.2	71.2	66.8	65.5	67.4	68.9	68.4	09:00 – 09:20 A.M (Day Time)	65.5	71.2	68.55	A. Industrial Area (Day Time – 75.0) (Night Time – 70.0)
2.	Near Main Gate	58.9	60.1	61.7	62.9	61.1	57.5	56.7	58.5	60.1	61.3	10:00 – 10:20 P.M (Night Time)	56.7	62.9	60.26	
3.	Back side of the Plant	63.5	65.8	64.7	66.7	63.9	61.2	62.3	64.9	62.8	65.7	09:30 – 09:50 A.M (Day Time)	61.2	66.7	64.45	B. Commercial Area (Day Time – 65.0) (Night Time – 55.0)
4.	Back side of the Plant	56.7	57.9	58.3	55.5	56.1	54.7	57.3	57.9	55.1	57.3	10:30 – 10:50 P.M (Night Time)	54.7	58.3	56.84	
5.	Near Administrative Building	69.2	69.4	71.5	72.7	73.7	72.3	71.2	70.1	68.4	69.1	10:00 – 10:20 A.M (Day Time)	68.4	73.7	71.09	C. Residential Area (Day Time – 55.0) (Night Time – 45.0)
6.	Near Administrative Building	53.5	55.6	52.9	58.5	59.3	57.2	56.1	56.3	55.4	53.1	11:00 – 11:20 P.M (Night Time)	52.9	59.3	56.28	
																D. Silent Zone (Day Time – 50.0) (Night Time – 40.0)

> End of Report <

**Remarks : Result relates only to the Sample Tested.

** Mean of Leq - Equivalent to Sound Energy	** Central Pollution Control Board, Ministry of Environment & Forests Government of India & Department of Environment, Government of West Bengal)	
	**Day Time is reckoned in between 6:00 A.M & 10:00 P.M	**Night Time is reckoned in between 10:00 P.M & 6:00 A.M
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS / Source : The Noise Pollution (Regulation and Control) Rules, 2000		
Hours	Limit in dB(A)	
8	90	
4	93	
2	96	
1	99	
1/2	102	
1/4	105	
1/8	108	
1/16	111	
1/32	114	
(2 minutes or less)	-	

Reviewed By:

Dy. Quality Manager

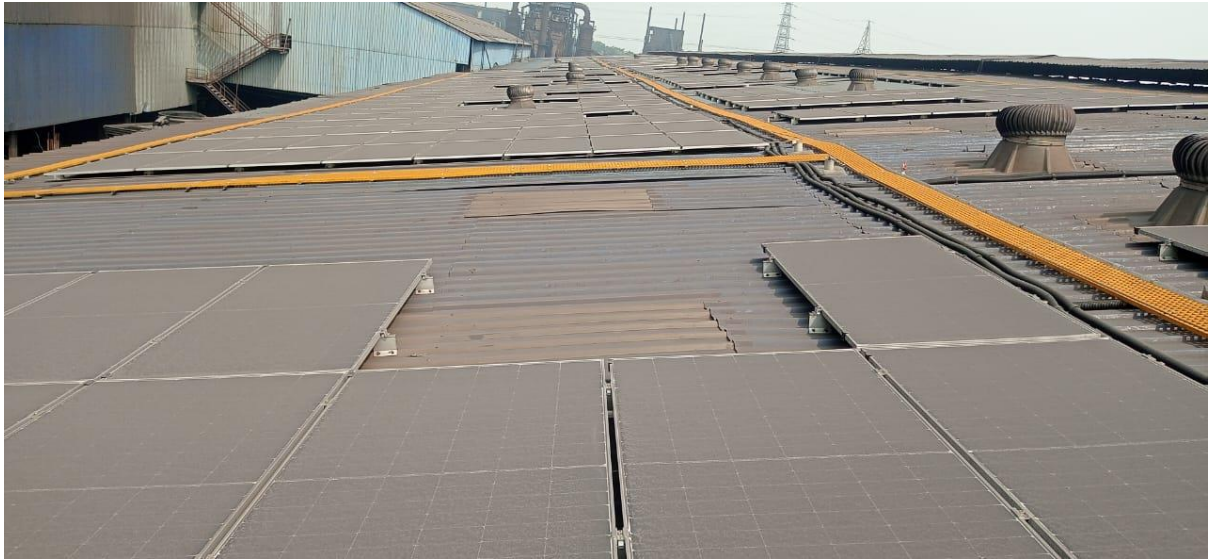
Authorized Signatory::

Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
 Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
 Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
 Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
 Overseas : ▪ UAE ▪ Qatar ▪ Netherlands

PHOTOS OF SOLAR SYSTEM











SHUT DOWN PROCEDURE
1. Turn off the AC input circuit breaker
2. Turn off the DC switch located on the
inverter. Do not open any of the
enclosures or PV panels.

WARNING
Dual Supply
Inverter uses PV supply and Mains
Supply. Before carrying out work

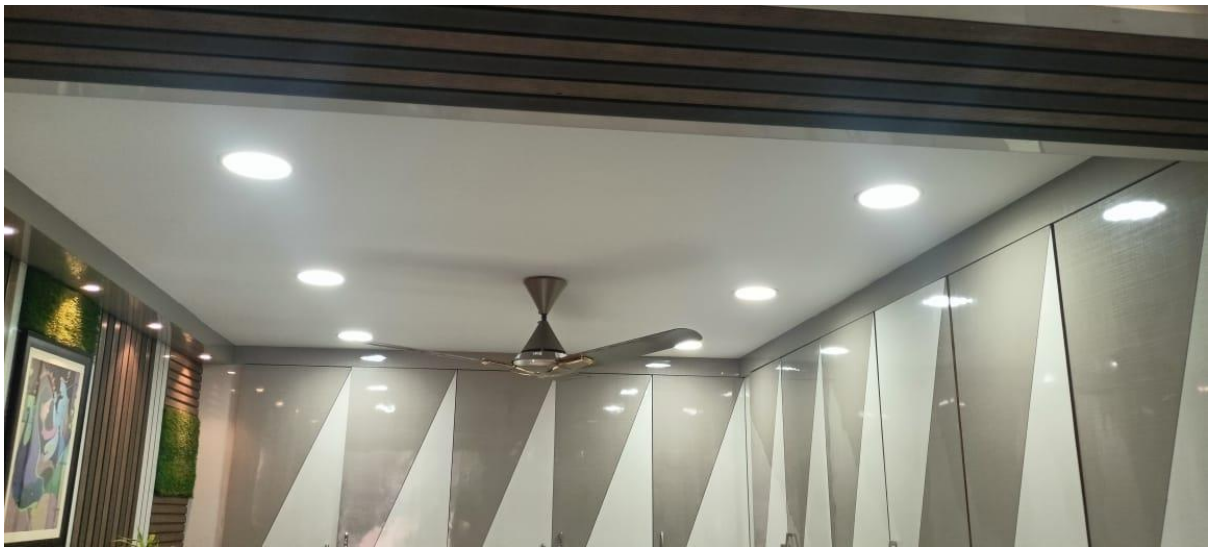
SUNGROW

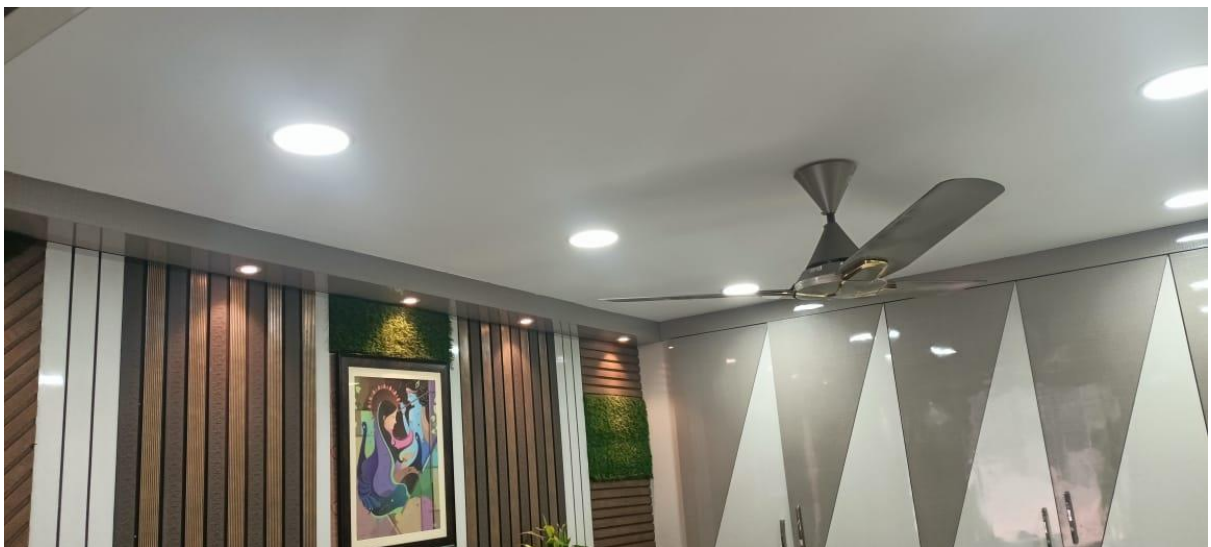
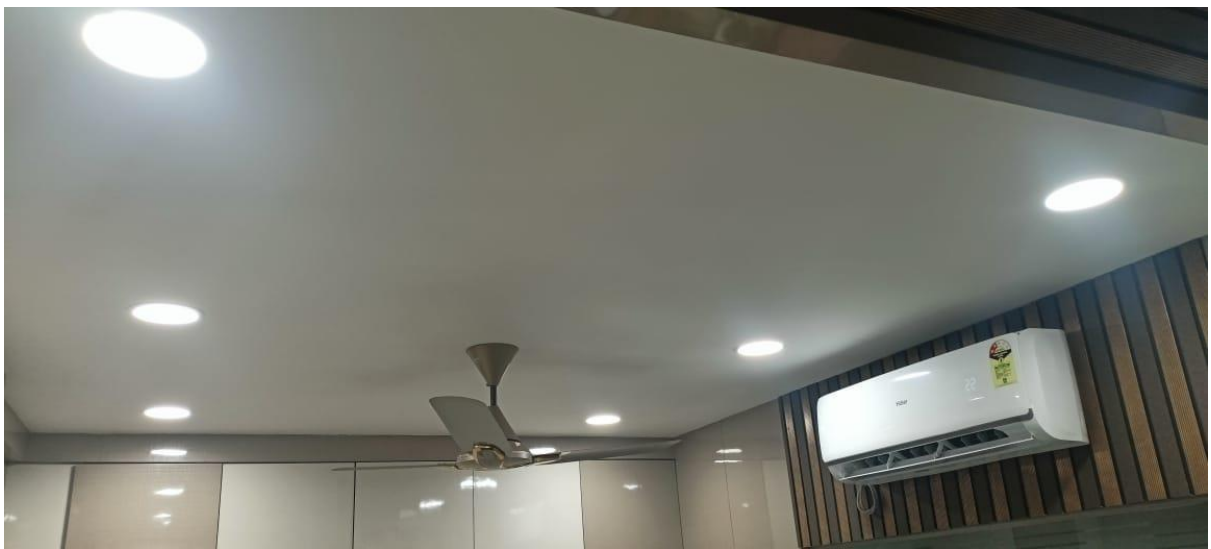
SunGreen
SOLAR ENERGY SOLUTIONS
Sustainable Energy & Renewable Energy Pvt. Ltd.

DANGER
415V AC VOLTS
415V AC VOLTS
खतरा
415V AC VOLTS

PHOTOS OF LED LIGHTS

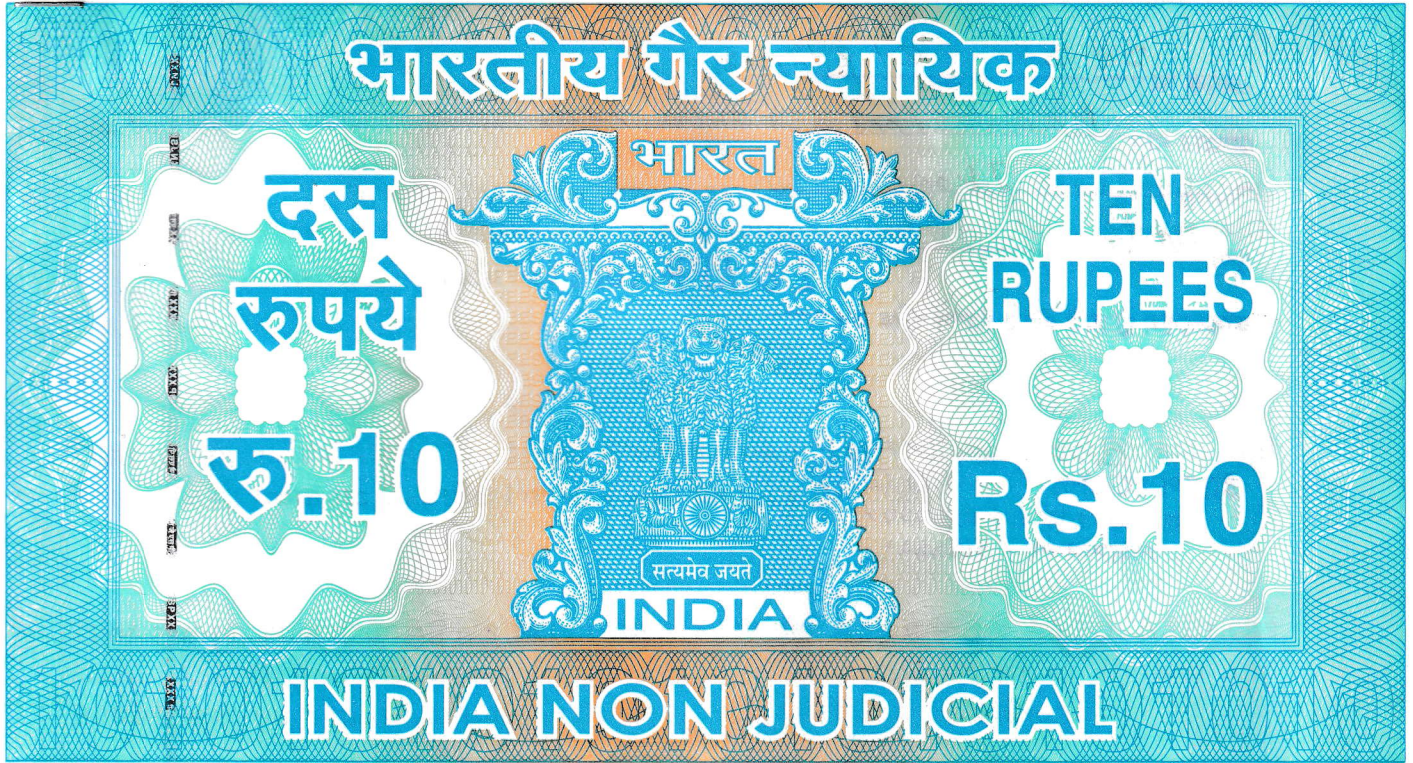












पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

58AB 456886

MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is executed by and between-

1. M/s Maan Steel & Power Ltd., at Jamuria Industrial Estate, Mouza- Ikhra, P.O. Nandi, Dist- Burdwan, West Bengal; a unit proposed for the manufacture of Iron Pellets, Sponge Iron, TMT bars and MS Billet
.....
1st Party

AND

S. N. Bricks Manufacturer

[Signature]

Partner

ক্রমিক নং ২০২ তার ০১/০৪/২০২২

ক্রেতার নাম Maan steel & Power Ltd.

সিদ্ধান্ত Ikrab.

মূল্য ২০ Lacs

28 APR 2022

আসামস্থায়ী টেন্ডার চইতে স্ট্যাম্প খরিক তার

অফিসে ১২/৪/২২
স্ট্যাম্প ভেগারঃ- আমিতাভ চৌধুরী
রানীগঞ্জ এ ডি এস আর অফিস
লাইসেন্স নং - ১(১৯৯২)

MEMORANDUM OF UNDERSTANDING

The object of this understanding is to...

1. Maan Steel & Power Ltd., at Jambura Industrial Estate, Moxha, Assam, West Bengal, India, has proposed to supply...

2/0

[Handwritten signature]

2. M/s S. N. Bricks Manufacturer, at Ghanashyampur, Nityanandapur, Bakura, a unit established for production of Fly Ash Bricks with manufacturing capacity of 30 Lakh pc PA

.....

2nd Party

That the proposed unit M/s Maan Steel & Power Ltd. will generate Fly ash and Bottom ash from its Captive Power Plant as a by-product

That the proposed unit M/s Maan Steel & Power Ltd. approached S. N. Bricks Manufacturer and expressed its desire to sell entire quantity of Fly ash and Bottom ash on a mutual understanding and Terms and Conditions


That M/s S. N. Bricks Manufacturer has given its consent to procure entire quantity of Fly ash and Bottom ash from M/s Maan Steel & Power Ltd. for a period of 10 (ten) years from the date of commencement of the proposed expansion plant on terms and conditions to be mutually arrived at.

That M/s S. N. Bricks Manufacturer will have an exclusive right over the Fly ash and Bottom ash generated in the plant of Maan Steel & Power Ltd. and no sale proceeds shall be undertaken without the consent of M/s S. N. Bricks Manufacturer

This agreement is entered into on this the 02 day of Jan 2023 between the parties mentioned above and signed by the respective authorized representatives of both the parties.

M/s Maan Steel & Power Ltd.

M/s S. N. Bricks Manufacturer

S. N. Bricks Manufacturer

Partner

Receipt No.

003

ANNEXURE^{est}-18

LIONS CLUBS INTERNATIONAL

DIST. 322C-3

LIONS CLUB OF RANIGANJ



Dump OR Donate

GET IN TOUCH WITH A LION NEAR YOU

Join the World's Largest E-Waste Drive



Received with thanks from ~~Smt Smt.~~ M/s. Maan Steel & Power Ltd.

Jamuria Industrial Estate, Ward no-09
P.O- Nanda, Dist- P. Bardwan, Mob 8918339716
Pin - 713362

Particulars	Qnt.
1) Mobile Phone	1
2) Monitor / Key Board / Mouse	7 (Seven)
3) T.V	1
4) Refrigerator	1
5) Iron	1
6) Laptop	1
7) UPS	8 (Eight)
8) Battery / Charger	1
9) Others	57 (Fifty seven)
Date.....	Total 72 (Seventy two)

Sign. of Receiver

Sign. of Donor

Secretary

Project Chaiperson

President

Lion Sajan Tibrewal

Lion Mahesh Kalotia

Lion Sandeep Kedia

Donate Your Devices and Save the Earth

TO,
THE PRESIDENT
THE LIONS CLUB
RANIGANJ.

SUB: DONATION ON THE WORLD'S LARGEST E DRIVE

Respected Sir,

We are glad to inform you that the management of MSPL has decide to hand over some all available IT equipment's that were being used by us as part of its CSR activity so that they can be reuse or distributed by your Renounced concern Lions Club , Raniganj .

Please find the list of available item as attached for your references.

Thanks and Regards,

For, Maan Steel & Power Ltd.

MAAN STEEL & POWER LTD.

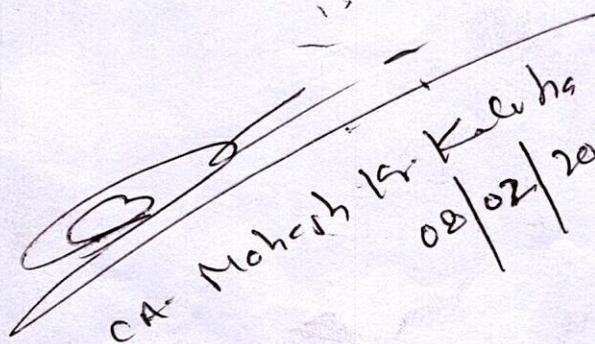
Authorized Signature

GENERAL MANAGER

Kindly acknowledge the same on receipt.

Thanks and Regards,

Recd. with thanks
the attached herewith
e-waste goods from
Maan Steel Power Ltd


CA Mahesh Kr Kaulaha
08/02/2023

CA. Mahesh Kr Kaulaha
Chairman Drive
E-waste collection
Lions club of Raniganj
Ph-no: 9832173939

WASTE MATERIAL LIST FOR DESTROY PURPOSE
MAAN STEEL & POWER LTD,JAMURIA

S.NO	ITEM	QTY
1	Monitor	7 Nos
2	Motherboard	2 Nos
3	POE SWITCH 8 PORT	3 Nos
4	Keyboard	8 Nos
5	Mouse	8 Nos
6	RAM	2 Nos
7	SMPS	15 Nos
8	MEDIA CONVERTOR	7 Nos
9	TP LINK POE INJECTOR	1 Nos
10	8 PORT SWITCH	1 No
11	Cable Tester	3 Nos
12	Adapter	5 Nos
13	Gigabyte 2GB Graphics Card	1 Nos
14	UPS	8 Nos
15	Wireless Cordless Calling Remote BELL	1 Nos
TOTAL		72 Nos

MAAN STEEL & POWER LTD.

Manoj Kumar

GENERAL MANAGER

Sl. No. 994/DRI/22-23

WORK ORDER

Date...08-02-23

**MAAN STEEL AND POWER LIMITED**

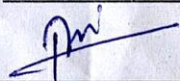
JAMURIA INDUSTRIAL ESTATE, JAMURIA, PASCHIM BURDWAN - 713362

Name The Lions club (Raniganj)Vehicle No. JH 10V 6607

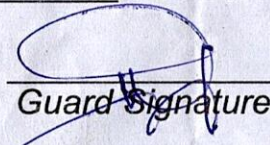
Sl. No.	Particulars	Quantity		M.R.P. (Rs.)	Delivery Date	Remarks
		Out	In			
1)	Monitor	07 NOS				
2)	Mother board	02 NOS				
3)	POE switch 8 port	03 NOS				
4)	key board	8 NOS				
5)	Mouse	08 NOS				
6)	RAM	02 NOS				
7)	SMPS	15 NOS				
8)	Media converter	07 NOS				
	TOTAL	52 NOS				

Dealing Person's Name Mr Ariyan

Signature _____

Time In : _____ Time Out : 12.10


Visitor's Signature



Guard Signature



Authorised Signature

Sl. No. 995/DR1/22-23

WORK ORDER

Date 08-02-23

**MAAN STEEL AND POWER LIMITED**

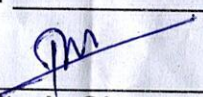
JAMURIA INDUSTRIAL ESTATE, JAMURIA, PASCHIM BURDWAN - 713362

Name The Lions club (Ranisgarh)Vehicle No. JH 10V 6601

Sl. No.	Particulars	Quantity		M.R.P. (Rs.)	Delivery Date	Remarks
		Out	In			
1)	FP Link Poe injector	01NO				
2)	8 Port switch	01NO				
3)	Cable Tester	03NOS				
4)	Adapter	05NOS				
5)	2GB Graphics Card	01NO				
6)	UPS	08NOS				
7)	Remote bell	01NO				
	FOR DONATION PURPOSE					
	TOTAL	20NOS				

Dealing Person's Name Mr Arayan

Signature _____

Time In : _____ Time Out : 12:10


Visitor's Signature



Guard Signature



Authorised Signature

PHOTOS OF SPRINKLERS









