# MAITHAN STEEL & POWER LIMITED



NIRMAAN KA MAANDAND

File No: MSPL1/EnvComp/Jun'23

Date: 22/05/2023

Ministry of Environment and Forests, Climate Change Integrated Regional Office IB-198, IB Block, Sector- III, Salt Lake City, Kolkata, West Bengal-700106.

Subject: Six Monthly (June, 2023) compliance report for M/S Maithan Steel & Power Limited (Unit-I)

Reference: EC No. IA-J-11011/554/2017-IA.II(I); Dated 26th July 2021

Sir/Madam(s),

With reference to the above, we are hereby submitting the six monthly compliance reports period from October 2022 to March 2023 for EC No- IA-J-11011/554/2017-IA.II(I); Dated 26th July 2021; for expansion of the existing 0.064 MTPA Sponge Iron to 0.17 MTPA Sponge Iron, (2x9) MVA Arc Furnace for manufacturing of Ferro Alloys of 30,000 TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron combined), Iron Ore Sinter Plant of 80,000 TPA, (1x40) TPH Iron Ore washery of 2,40,000 TPA and 20 MW Power Plant [WHRB- 12 MW & AFBC- 8 MW] located at Vill + PO- Bonra, Tehsil & PS- Neturia, District- Purulia, West Bengal in the name of M/s. Maithan Steel & Power Limited (Unit-1), in soft copy format vide mail.

Hope you will find the same in order.

Thanking you.

Yours faithfully,

For, M/S Maithan Steel & Power Limited

Enclosures-

1. Compliance Report for EC;

2. Copy of the Consent to Operate as Annexure- 1:

- 3. Copy of the Consent to Establish Permission as Annexure- II:
- 4. Copy of OCEMS Data from Oct'22 to Mar'23 as Annexure- III:
- Copy of Stack Emission Data as Annexure- IV;
- Copy of AAQM Report as Annexure- V;
- 7. Copy of Fugitive Emission Report as Annexure- VI;
- 8. Copy of Water Analysis Report as Annexure- VII;
- Copy of Pre Monsoon Ground Water Report as Annexure- VIII;
- 10. Copy of Ambient & Work Noise Quality Monitoring Report Annexure- IX;
- 11. Copy of Occupational Health Report as Annexure- X;
- 12. Copy of CER Cost as Annexure- XI;
- Environmental Policy as Annexure- XII;
- 14. EC Advertisement Copies as Annexure- XIII;
- 15. EC Intimation Copies as Annexure- XIV.

#### Registered Office:

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

CIN: U27102WB2001PLC093321

Works: Unit-I

P.O. Bonra, P.S.: Neturia - 723121,

Dist.: Purulia, (WB)

www.maithansteel.com

Works: Unit-II

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

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# **Half-Yearly Compliance Report**

## On

# **Environmental Clearance Conditions**

(MoEF Letter Ref No: IA-J-11011/554/2017-IA.II(I) DATED 26.07.2021)

Period: October, 2022 - March, 2023

# Submitted by:

# M/s. Maithan Steel and Power Limited

At, Vill & PO- Bonra, PS/ Tehsil-Neturia, Dist- Purulia, West Bengal- 723121



Name of the Project:

Expansion of the existing 0.064 MTPA Sponge Iron to 0.17 MTPA Sponge Iron, Furnace Arc (2x9)MVA manufacturing of Ferro Alloys of 30,000 TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron combined), Iron Ore Sinter Plant of 80,000 TPA, (1x40) TPH Iron Ore Washery of 2,40,000 TPA and 20 MW Power Plant [WHRB- 12 MW & AFBC- 8 MW] by M/s. Maithan Steel & Power Limited located at Vill + PO- Bonra, PS & Tehsil- Neturia, Dist- Purulia, West Bengal.

Clearance Letter No. with date:

EC No- IA-J-11011/554/2017-IA.II(I)

dated 26.07.2021

**Period of Compliance Report:** 

October, 2022 to March, 2023

A. Specific Conditions:

Sr. No.	Condition(s)	Compliance Status
i.	Particulate matter emission from all the stacks shall not exceed 30 mg/ Nm <sup>3</sup> .	Already being complied with & will be complied too.  The management is very much concerned about keeping the stack emission level within limit as per CTO norms for the existing operational plants (2x100 TPD Sponge Iron Plant). After commissioning of WHRB, we will keep the stack emission level below the prescribed limit. Online Continuous Emission Monitoring System (OCEMS) is attached to the major stack connected to the operational plant. Consent to Operate copy is attached as Annexure-I.  The same practice will be continued in future.
ii.	Water supply from Damodar Valley Corporation (DVC) shall be used and abstraction of ground water shall be discontinued.	For the current operational plant, water requirement is fulfilled by surface water from Damodar Valley Corporation (DVC) after obtaining the permission from the concerned authority. So, ground water is not abstracted for the project.  The same practice will be obeyed in future.
iii.	Rain Water harvesting shall be implemented as per the action plan submitted.	The project is in constructional phase. Rainwater harvesting system will be implemented in parallel to the implementation of the EC accorded project.
iv.	Water spray systems shall be included to control fugitive dust from raw material stockpiles.	The project is in constructional phase. To control the fugitive emission, water sprinklers will be implemented shortly. We have already installed the fixed sprinkler systems to conveyer belt, raw material handling area, along with road, dry fog system at bag house area etc to the existing unit. Movable water tanker is available to suppress road dust.

ν.	Green belt shall be developed in 33% of the total area all along the entire periphery of the plant with a density of 2500 trees per ha.	
vi.	100% solid waste generated in the facility shall be utilized.	Solid waste utilized for low land & abandoned mines filling for the current operational plant and after commissioning of AFBC boiler, the same will be used in the factory.

I.	Statutory Compliance	
Sr. No.	Conditions	Compliance Status
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.	Agreed & complied.  Before starting the construction activity, Consent to Establish (NOC) permission is provided from the West Bengal Pollution Control Board for the EC accorded project vide NOC No. 164590, Memo No. 658-2N-52/2018(E) dated 08.10.2021.  The Consent to Establish permission is attached as Annexure- II.
	60 ) <mark>]</mark> 0	
		ES KOLKATA REPORTED

## II. Air quality monitoring and preservation

i.

The project proponent shall install 24×7 continuous emission monitoring system at process stacks to monitor stack emission as well as two Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification labs recognized under through Environment (Protection) Act, 1986 or NABL accredited Laboratories.

The Online Continuous Emission Monitoring System (OCEMS) is installed with the process stack connected with currently operational 2x100 TPD Sponge Iron Plant as per CPCB guidelines and the 24x7 online data is transferred to CPCB server through online portal. The OCEMS data for the six monthly period (October, 2022 to March, 2023) is enclosed as **Annexure-III**.

Stack Emission is monitored at 2x100 TPD Sponge Iron Plant by third party monitoring agency which is NABL accredited laboratory. As per the stack emission monitoring report submitted, stack emission is monitored in the month of March, 2023.

Stack Emission Report is enclosed as Annexure- IV.

CAAQMS will be installed shortly as it is under construction phase. Ambient Air Quality (AAQ) is monitored at four locations (3 Locations outside & 1 Location inside the plant premises) by third party monitoring agency which is NABL accredited laboratory. As per the Ambient Air Quality monitoring report submitted, AAQ is monitored in the month of March, 2023.

AAQ Report is enclosed as Annexure- V.

Already being complied with.

Fugitive Emissions are monitored Near Product House and Near Raw Material Yard by third party monitoring agency which is NABL accredited laboratory. As per the fugitive emission monitoring reports submitted, fugitive emissions were monitored in the month of March, 2023.

Fugitive Emission Report is enclosed as Annexure- VI.

Agreed & being complied.

Existing operational plant (2x100 TPD Sponge Iron) are equipped with ESP, DSC, GCT and ID Fan to meet the standard below prescribed limit and Bag Filter with ID fan are connected to Raw Material Handling Plant, Cooler Discharge, Intermediate Bin & Product House along with Conveyor Belts are covered with metal sheet for controlling fugitive emission.

To mitigate the fugitive emission movable water tanker & fixed sprinklers have been used inside the plant premises. Dedicated manpower is continuously engaged to control the fugitive emission inside the plant premises.

The practice will be continued in future.

Already being complied with & will be complied too.

From visual observation of stack emissions and differential pressure check in bag house, damage of bags is detected & damage bags are replaced taking shutdown of Cooler Discharge, Raw Material Handling Plant, Intermediate Bin, Product House. In running condition bags are cleaned by pulse air jet using cleaning timer cycle.

 The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) act, 1986 or NABL accredited laboratories.

iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

THAN STEEL AND POWER LIMITED

v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.

Noted & already being complied with.

For the current operational plant (2x100 TPD Sponge Iron Plant), APC dust is dumped in abandoned mine area and the same practice will be adopted in future.

The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.

vi.

vii.

Already being complied with & will be continued.

For the current operational plant, raw materials are coming to plant through fully covered trucks by tarpaulins.

The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.

#### Agreed.

The project is in constructional phase; only 2x100 TPD Sponge Iron Plants are in operational phase.

The primary and secondary fume extraction system will be installed at the time of implementation of the Submerged Arc Furnace. These system is not applicable for the existing unit.

viii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

#### Agreed.

Natural ventilation system will be implemented after completion of the project.

### III. Water quality monitoring and preservation

The project proponent shall install 24x7 i. effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414(E) dated 30th may 2008; G.S.R 277(E) dated 31st March 2012 (applicable to IF/EAF); S.O. 3305(E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification under labs recognized through Environment (Protection) Act, 1986 or NABL accredited laboratories.

No waste water is discharged outside the plant premises as the plant is based on "Zero Liquid Discharge" concept.

For the current operational plant (2x100 TPD Sponge Iron Plant), water is only used for cooling which is reused in process and the domestic waste water is reused for developing green belt and dust suppression system with movable water tanker.

The same practice will be adopted in future.

Water quality is being monitored Near Office Area by third party monitoring agency which is NABL accredited laboratory.

Water Analysis Report is attached as Annexure-VII.

Agreed.

We test periodically the ground water quality at Factory Premises, Murulia Village, Mautha Village and Bonra Village in the month of March (Pre monsoon) & September (Post monsoon).

Pre Monsoon Ground Water Analysis Report is attached as Annexure- VIII.

ii. The project proponent shall monitor regularly the ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.

iii.	Sewage Treatment Plant shall be	Noted.
	provided for treatment of domestic wastewater to meet the prescribed standards.	The project is in constructional phase. Sewage Treatment Plant will be installed as soon as possible to treat the domestic waste water inside the plant premises.
iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Agreed.  Garland drains are under construction to arrest the surface run off water during the event of rain in our existing unit Surface water is collecting in a pit & recycling it in the process.
		The same practice will be obeyed in future.
IV.	Noise monitoring and prevention	
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Noted & complied.  Noise Monitoring is being done on regular basis by WBPCB/MoEF&CC/ NABL accredited laboratories. Eco Care, West Bengal which is NABL/ MoEFCC accredited laboratory has done the source noise analysis at one location viz. Near DRI Area and ambient noise analysis report at three locations viz. Near Main Gate, Near Bonra Village & Near Murulia Village in the month of March, 2023.
	54	The Ambient & Work Zone Noise quality monitoring reports are attached in Analysis Report as Annexure-IX.
V.	Energy conservation measures	
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	Agreed & complied.  The project is in constructional phase; LED lights are already installed in the office area & solar panels are installed beside road with the implementation of the project.
VI.	Waste management	
i.		Used refractories are being sold out to refractory units for recycle.
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste is composted and is used as manure in gardening.
VII.	Green Belt	
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Greenbelt development is continued inside the plant premises during progress of project and a dedicated team of workers is continuously engaged for planting trees/saplings. More than 3899 trees are planted inside and outside the plant premises within the 2022-23 financial year. Total 4499 trees are planted till date of year 2023-24.
VIII.	Emergency Preparedness	
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Already being complied with.  We have prepared the HIRA & Disaster Management Plan and conducted training accordingly.
	- innagement i an anan be implemented.	CEYS POL

ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act. iii. Occupational health surveillance of the

### Not applicable.

The workmen have been provided PPE like asbestos apron, gloves, safety shoes and color glasses. Workmanship are being rotated periodically. Heat Stress Analysis is not needed as work is done at normal temperature.

workers shall be done on a regular basis and records maintained.

#### Agreed & complied.

Occupational health surveillance of the workers is being periodically accessed and records are being maintained as per the Factories Act 1948.

OHS record is enclosed as Annexure- X.

#### IX. Environment management

i. The project proponent shall comply with provisions contained Ministry's OM vide F. No. 22-65/2017-IA.III dated 30.09.2020.

The cost incurred in CER is being carried out for social development and welfare measures in the surrounding villages.

The CER detail is attached as Annexure- XI.

ii. The company shall have a well laid down environmental policy duly approve by Board of Directors The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of 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

Already being complied with.

The company has a well laid down environment policy duty approved by Board of Directors. Standard Operating Procedure for individual equipment's have been printed and distributed to supervisors for ready reference. Important parameters have been displayed in working area. It is revised time to time.

Environmental Policy is submitted to your good office with this report as an annexure.

Revised Environmental Policy is enclosed as Annexure- XII.

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

six-monthly report.

be submitted to the MoEF&CC as a part of

#### Agreed.

A separate Environment Management Cell is working under Workmen Controller (WMC) who is also organizational head. All abnormalities and deviations are directly reported to him, who take up the matter with Board of Directors for immediate action and budgetary provision.



#### 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 in at least two local newspapers of the District or state, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in website project proponent's permanently.

Already being complied with.

Accorded Environmental Clearance was published in Sangbad Protidin (Bengali Newspaper) on 01.05.2021, Ei Samay (Bengali Newspaper) on 03.08.2021 & The Times of India (English Newspaper) on 03.08.2021 and also in company's website.

The EC Advertisement Copies are enclosed as Annexure-XIII.

ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, panchayats and Municipal bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. Already being complied with.

EC copy was submitted to the Head of Bhamuria Gram Panchayat, BDO of Neturia and to the District Magistrate of Purulia District were submitted.

The Intimation Copies Submitted to the Local Bodies are enclosed as Annexure- XIV.

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. Agreed to update on six-monthly basis.

In compliance to the point, report is uploaded on the company's website.

The project proponent shall monitor the criteria pollutants levels level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

Agreed and complied too.

The management of MSPL (M/s. Maithan Steel & Power Limited) is monitoring criteria pollutants level namely-  $PM_{10}$ ,  $PM_{25}$ ,  $SO_2$ ,  $NO_x$  (ambient levels as well as stack emissions of PM) by third party monitoring agency. Emission levels of pollutants of different units is displayed on information board as per CPCB format outside the main gate of the plant for disclosure to the public and also uploaded with compliance report on the website of the company.

The project proponent shall submit sixmonthly 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. Agreed and complied.

Six-monthly report on the status of compliance of the stipulated environmental conditions are being submitted to MoEFCC and is displayed in the website of the industry. Status of the compliance of the stipulated conditions are updated on MoEFCC's portal 2.0.

iv.

v.

		the table and the desired with 6 will be continued too
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment	Already being complied with & will be continued too.  For the financial year 2021-22, Environmental Statement in prescribed format was submitted to the West Benga Pollution Control Board vide MSPL-I/ENV_Statement/ 2022-23 dated 29.08.2022.
	(Protection) Rules, 1986 as amended subsequently and put on the website of the company.	The Form- V (Environmental Statement) for the financial year (2022-23) will also be submitted before 30th Sep'23.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned	Noted and informed.  Date of financial closure is 20-10-2022. We got CTE dated 08-10-2021 and commencing the land development work is 12-01-2022. Start of production will be by 31-03-2025.
	authorities, commencing the land development work and start of production operation by the project.	
viii.	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.	Noted & is being complied.
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed.
x.	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xii.	The ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Noted.
xiv.		Agreed.

# WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. - 10A, Block - LA, Sc. tor-III Salt Lake City, Kolkata-700 998



Consent Letter Number : C011015 0

Memo Number: 1877-WPBA/Red(Prl)-Cont(82)/02

Date: 28-8-18

#### Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as 5 tate Board) under the provisions of Section 25 &

	s and Orders made thereunder, hereby grants its consent to:
M/s. Maithan Steel & Powe	r Ltd.
(hereinafter referred to as Applicant) for its un	it located at Vill + P.). Bonra, P.S. Neturia,
	(Detailed address of the manufacturing unit
for a period from	up to 31-08-2023
	iquid effluent and to emit gas our effluent from the premises/land of the indus-

trial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission slall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act. 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant hable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

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

For and on behalf of the State Board (Member Secretary/Chief E. gr./ Sr. Env. Engr. / Engr. / Asst. Env. Engr.)

# ANNEXURE

Consent to .!	M/S. Maithan Storl & Power Ltd.	
for its unit a	Vill + P.O. Bonia, P.S. Neturia,	Dist- Purulia
Conditions	<u>:</u>	
01. This	s Consent is valid for the manufacture of :-	
Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sronge Iron	5000 HT
02		
03		
04		
0.5		
06		
07		
80		
09		
10		
11		
12		
02. The	Applicant shall remain responsible for quantity and quali	ity of liquid effluent and air emissions.
03. Daily	y discharge of industrial liqui i effluent shall not exceed.	KL.
	y discharge of domestic liquid effluent shall not exceed.	
05. Dail	y discharge of mixed (industrial & domestic) liquid efflu	ent shall not exceedKL.
06. The	Applicant shall discharge liquid effluent to Soak Pi	(place of discharge)
07. To b	ring into any altered or new oullet/outfall or to change the Board and obtain prior permission of the Board in this ef	place of discharge, the Applicant shall have to inform feet.
was	Applicant shall provide comprehensive facility for treate (sewage, sullage and liquid effluent generated from the final effluent conforms to	om canteen), and operate and maintain the same

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Continued......

		Table-l			
Outlet No.	Nature of effluent	Parameters		Standard	Frequency of effluent sampling
01 1	omestic	pli	Between	13.5 to 9.0	Yearly
		Total Suspended Solids		xceed: 100 mg/l.	
-		Biochemical Oxygen Demand (3day at 27°C)		seced: 30 mg/l.	
		Chemical Oxygen Demand		xcced: 250 mg/l.	L
		Oil & Grease	Not to	xeced: 10 mg/1.	
and	Control of Pol	s in the lution) Cess Act, 1977 and Rules made the		Category of the	Water (Prevention I comply with the
		nid Act and Rules made thereunder.  Inpution for the following purposes should not	exceed:		
• 1	ndustrial coolii	ng, spraying in mine pits and boiler feed water gardening should be included in this categor	er ,	977	KI
. • [	Domestic purpo	se	٠	5	κι
	Processing who re easily biode	reby water gets polluted and the pollutants gradable	٠,	-	кі
	rocessing who	reby water gets polluted and the pollutants		-	VI.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to M/S. Maithan Stee	- Fower Ltd.	
for its unit at Vill + P.O. Bonna	P.S. Meturia.	Dist-Purulia

- The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board
- All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted displayed to facilitae identification.
- 13. The Applicant shall install comprehe: sive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below:

Table-11

	,									
Stack No.	Stack height from	Stack attached to (sources and control system.	Volume Nm <sup>3</sup> /ar.	Velocity of gas emission	Concentrations of parameters not to exceed			Frequency of emission sampling		
	G1., (in mts.)	ifany):		m/sec	SPM (mg/Nm³)	(%v/v)				,,
S-1	32	12 nos. Ros (2 X100 M		n -	100	1	-	-	_	Ralf Yearly
S-2	30	Cooler Discharge	-	-	100	-	-	-	-	-DC-
S-3	30	Product House	-	-	100	-	-	-	7	-DO-
S-4	30	Coal Crusher	-	-	100	-	-	-	-	-DO-
S-5	19.5	860 KVA G Set	-	-	150	-	-	-	-	Yearly
S-6	18	380 KVA DG Set	-	-	150	-	-	-	-	-D6-
S-7										
S-8										
S-9										
S-10										04 11

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

for its unit at Vill + P.O. Bonra, P.S. Neturia, Dist- Purulia

- 14. The Applicant shall provide ports in the stack(s) and other necess-ry permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
- 15. The Applicant shall observe the following fuel consumption pattern :-

St. No	Type of fuel	Quantity consumed per day	Fael burning operation where the fuel is used
01	Coal	4350 MT / month	DRI Kiln
02			
0.3			
04			
0.5			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:-

Type of waste	Quantity	Treat nent	Disposal			
Coal Char	1440 MT/ Month	-	Send to Power Plant			
APC Dust	200 MT / Month	-	and filling net pit			

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below:-

Time 10	Limit in dB(A) Leq
Day Time (06 a.m. to/09 p.m.)	65
Night Time/09 p.m. to 06 a.m.)	55

- 18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
- 19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
- 20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
- The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
- The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Fuv. Engr. / Asst. Env. Engr.)

## Consent to M/S. Maithan Steel & Power Ltd.

## for its unit at Vill + P.O. Bonra, P.S. Neturia, Dist- Purulia

- 24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control sys-
- from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sen, to the Board.
- 26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
- 27. The Applicant shall submit to the State E and by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
- 28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
- 29. The Applicant shall maintain an Inspectio 1 Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
- 30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
- 31. The Applicant shall maintain adequate no ober of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
- 32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Author-
- 33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pellutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system o to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and initigate the accidental release of poisonous noxious or pollutants to the environment.
- 34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
- 35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board
- The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous 8/18/11/2 Chemicals Rules, 1989 and Hazardons Wastes (Management & Handling) Rules, 1989.

#### Additional Conditions

(Member Secretary Chief Engr./ Sr. Fny. Engr. / Env. Engr. / Asst. Fny. Engr.)

# WEST BENGAL POLLUTION CONTROL BOARD

Panbesh Bhawan 10A. Block - LA. Sector III. Bidh. nnagar Kolkata - 700 Tuo



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

Dates 08/10/2021

Member Secretary, West Bengal Poliution Control Board

To M/s. Maithan Steel & Power Limited. 9, A.J.C.Bose Road, Ideal Centre, 5th | Loor, Kolkata-700 017.

Consent to Establish (NOC) from Environmental Point of View

1) YOU KEE No MSPL-I/NOC-APP/EIM-WBPCB/2 -22/01 25.09.2021

The state of the s

ii) Environmental Clearance issued by | DEFECC vice F. No. IA-J-11011/ 554/2017-14,11(1) ata. 26.07.2021. Band Bern I

Dear Sirs.

In response to the application to Consent to Establish (NOX for proposed Unit of Mis Maithan Steel

THE RESERVE THE PARTY OF THE PA

& Power Limited expansion of the existing 0.064MTPA Spo ge Iron to 0.17MTPA Sponge Iron,

for proportion proportion and the form

2X9MVA Arc Furnace for manufacturing of F cro Alloys of 30,000TPA(Fe-Mn, Si-Mn, Fe-Si & plg Iron combined), Iron 0 e Sinter Plant of 80,000 TPA, # 1X40TPH Iron Ore Washery of 2,06,000TPA and 20MW Power Plant(WHRB-12MW & this is to more you that this Board hereby grants the Consont to Estate ish (NOC) from the environmental point

of the above subject to the following conditions and special conditions innexed.

\* at P.O.-Bonra, P.S.-Neturia, Dist - Pur lia, West Bengal,

- The quality of sewage and trade effluent to be discharged from Four factory shall satisfy the permissible (miles as presembed in IS: 2490 (Pt. I) of 1974, and/or its subsequent imendment and Environment (Protection) Tudes 1986
- Sustable measures to treat your efficient shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
- You shall have to apply to this Board for its consent to operate an I discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this B land
- All emission from your factory shall conform to the standards as Hid down by this Board.
- No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per p. ovision of the Air (Prevention & Control Pollution) act, 1981
- No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ crededire-creded without prior as provel of this, Pose! May astopist

### NOC NO164590

- You shall comply with
  - Water (Prevention and Control Pollution) Cess Act, 1977, if applicable. (0)
  - Water (Prevention and Control : Polision.) Cess Act, 1978, # applicable
  - Environment (Protection) Act. 15:16
  - (in) Environment (Protection) Huses 1986
  - Hazardous Wastes (Manageme : and Handling) Bules, 1989 and Amended Bules, 2009
  - (w) Manufacture, Storage and Impo: of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
  - (vs) Manufacture, Use, Import and Stirage and Hazantous Micro-Organisms, Genetically Engineered Organisms or Cell Pules, 1969
  - (viii) The Public Liability Insurance Ar.; 1991 and Amended Act, 1992
  - The Public Liability Insurance Rilles, 1991 and Amended Rules 1993
  - (ii) Biomedical Wastes (Manageme 1 & Handling) Butes, 1998 and Amended Rules 2000 if applicable.
  - (e) Recycled Plastics Manufacture i n.t Usage Pules 1999, if applicable and
  - (xii) Ozone Depleting Substances (Fingulation & Control) Hules, 2000, if applicable
- You will have to abide by any other stillulations as may be prescribed by any authority/local bodies/Government Departments etc.

#### SPECIAL CONDITION:

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

please refer to Amexure - A & B.

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

Member Secretary: / SR. ENV. ENGR.

West Bengal Pollution Control Boat EIM CELL) -2N-52/2018 E) 2/d. 08/10/2091

Sr. Environmental Engineer Dated B. Polimica Commet Board

Dept. of Environment, GoWB Copy forwarded for information to : Chief Inspector of Factories, Gove niment of West Bengal, N. S. Building, Kolkata-700 001 1.

- Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. 2 Building Kolicata-700 001
- Guard file, West Bengal Pollution Control Board. 3
- Environmental Engineer, VIVAlipi: R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./

Assersol/ Sub-R.O.WBPC Board

Himataya Bhawan

Vill, Lanpur

Sahid Khudiram Saram City Centre, Durgapur-16 10. Camac Street

Defri Road, Dankuni Dist. Hooghly

Kaly ni Expressway P.O. larayanpur

Dist. Burdwan

2nd Floor Kolkata-700 017

Dist 24 Pas. (N)

Paribesh Bhawan 10A, LA-Block, Sector-III Bloc -05 at 40 Flat: Complex

Paribahan Nagar Matigara, Siliguri

Salt Lake City. Koficata - 700 098 Adja rent to Priyambada Dist.-Darjeeling Hou ing Estate

P.O. Khanjanchak, P.S. Jurgachak Hal: a-721602

Dist Purba Medinipur

Satya Chowdhury

Ase sol Sub-Regional Office ATV A Commorrial Market (2nd Floor)

# Aubustic Ato NOCSI, No. NO164590

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

SI No	Name	Existing configuration	Proposed Configuratio n	Final configuration After expansion	Final Production Capacity (TPA)	Proposed Stack Height (m)	Proposed Emission Control System	
1	DRI Kilns	2x100 TPD	1x350.TPD			42 m	ESP	
a)	pict kilnt oelet Deathorp!/ Lxit		1x350 TPD	2x100 TPD 1,76,000 1 a 1x350 TPD			30 m	Bag Editer
b!	Stock House		01 No.			1,76,000   sange from	30 m	Hag Filter
	Coal Crustics		01 No			30 m	Rag Filter	
d)	Intermediate this		01 No				30 m	Bag Filter
	Product House	140	01 No			30 m	Hag Edter	
7	CPP [WHRB based]	14	12MW	12 MW	12 4W	In time with DRI kiln 1 x 350 TPD	Common with ESP of DRI Kiln of 350 TPD	
в	CPP [Al BC based)		8 MW	8 MW	8 MW	BOW	30 m	ESP with Preumatic Ash Eonveying System
9	Ash Silo	200-	1 No			Vent of 5 m from Silo Top	Bag Filter	
10	Ferro Alloy Plant		2 x 9 MVA	2 x 9 MVA	30,000(F) Mn. Si-Mn. Fe Si-8 (tig from commed)	30 m (Common)	02 nos Bag Filter System & 1 D Fan (Individual)	

W. D. Pollution Control Board Dept. of Laviron Seas, GoWB

SI. No	Name	Existing configuration	Proposed Configuratio	Final configuration After expansion	Final Production Capacity (TPA)	Proposed Stack Height (m)	Proposed Emission Control System
	Iron Ore Sinter Plant (Head)		250 °PD	250 TBD	250 TPD 80,000	30 m	ESP
11	Iron Ore Sinter Plant (Tail)	**		230 110		30 m	ESP
12.	Iron Washery		1 x 40 TPH	1 x 40 TPH	2,06,000		
13	D.G. Sets		03 x 6t 3 KVA	03 x 600 KVA	03 x 600 KVA	13 m (individual)	Exhaust Muffler & Acoustic Enclosure

Sr. Environmental Engineer
W.B. Pollution Control Board
Dept. of Languagement, GoWI

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

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

Annexure - B to NOC SI, No. NO164590

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

#### 1. Specific conditions

- Particulate Matter emissions from all the stacks shall no be exceed 30mg/Nm<sup>3</sup>.
- Water supply from Damodar Valley Corporation (DVC) shall be used and abstraction of ground water shall be discontinued.
- 3. Rain Water harvesting shall be implemented but no reclarge to the ground aquifer is permitted.
- Water spray systems shall be included to control fugitive dust from raw material stockpiles.
- Green belt shall be developed in 33% of the total area a Lalong the entire periphery of the plant with a density of 2500 trees per ha.
- 100 % solid waste generated in the facility shall be utilized.

### II. Air quality monitoring and preservation

- The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules, 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calif rate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited labs.
- The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through labs recognised under Envirorment (Protection) Act, 1986 or NABL accredited labs.
- iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. Recycle and reuse iron ore fines, coal and coke fines. lin e fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.
- vii The project proponent shall provide primary and secondary fume extraction system for all melting furnaces.
- viii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars

#### III. Water quality monitoring and preservation

- The project proponent shall install 24x7 continuous efficient monitoring system with respect to standards prescribed in Environment (protection) Rule 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through NABL recognised labs.
- The project proponent shall monitor regularly ground after quality at least twice a year (preand post-monsoon) at sufficient numbers of piezom ters/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and, NABL accredited laboratories

Tr Environmental Engineer
W. B. Pollution Control Board
Lept. of Lavironment, GoWB

1

#### Annexure - B to NOC St. No. NO16-590

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

- Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off

#### IV. Noise, monitoring and preven ion

 Noise pollution shall be rionitored as per the prescribed Noise Pollution (Regulation and Control) Rules. 2000.

#### V. Energy Conservation measure:

Energy conservation measures may be adopted such as adoption of solar energy and provision
of LED lights etc. to minimize the energy consumption.

#### VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

#### VII. Green Belt

i The project proponent shall prepare GHG emissions inventor) for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

#### VIII. Emergency Preparedness

- Emergency preparedness if an based on the Hazard Identification and Risk Assessment (HIRA)
  and Disaster Management "lan shall be implemented.
- The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- Occupational health survey ance of the workers shall be done on a regular basis and records maintained.

#### IX. General:-

- All conditions laid down i the Environmental Clearance obtained for the expansion project from MoEF&CC, GoI vide no. J-11011/554/2017-IA-II(I) dated 26.07.2021 must be strictly followed.
- 2) Noise Control Ambient noise & D. G. Set noise level not to exceed the permissible limit.
- 3) No additional machinery / equipment can be installed without permission from this board
- 4) Adequate arrangement fol dust suppression in raw material handling section to be provided.
- 5) The conveyor belt for tran ferring materials to day bins & skip hoist to be covered.
- Good house-keeping to be maintained.
- All requisite permissions / compliance / certificates / licenses from the Competent Authority shall be obtained.
- Project proponent should not undertake any activity on any portion of land which is not under their possession.
- This NOC is valid up to 30.0=.2028 for setting up the expansion project.

Market 4/2011-

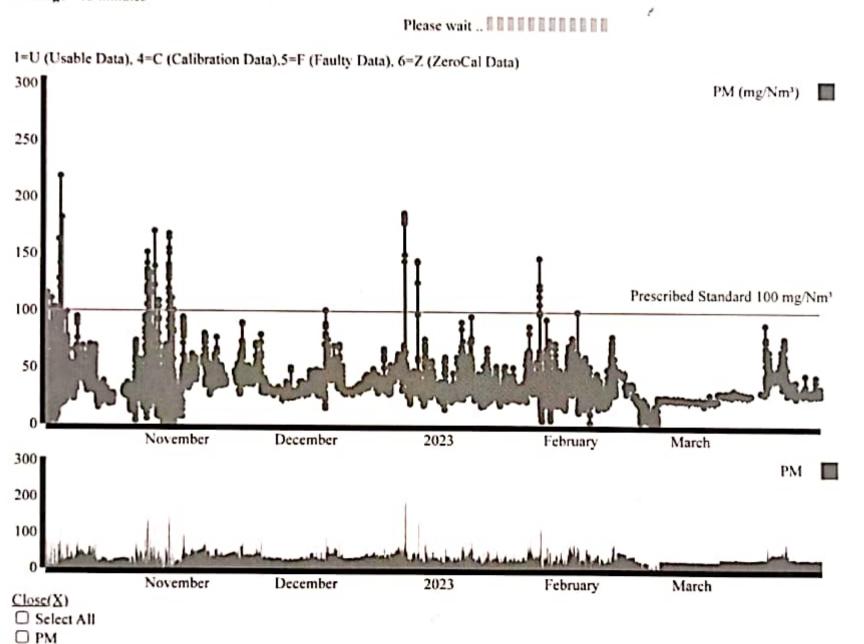
Sr. Environmental Engineer (EIM Cell)/Member Secretary
West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Control Board
The of Environment, Co. W.P.

CPCB

VILL.: BORA, P.O.: BONRA PURULIA West Bengal 723121

Start Date - 2022-10-01 End Date - 2023-03-31 Average - 15 minutes









Annexuse-IV

Email: ecocareasansol@rediffmail.com Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000000509F

Sample Details

### TEST REPORT

#### Report Release Date : 03.04.2023 Sample Ref. No.(ARF) Test Report No : EC/TR/42/03035 Type of Sample : Dust & Gaseous Emission Sample Collected by : Mr. Sumit Sarkar & Team

: Stack Emission Name & Address : Maithan Steel & Power Limited

(Unit - I)

Vill + P.O - Bonra, P.S - Neturia

Dist - Purulia

West Bengal - 723121

Sample Ref. No.(ARF)	: EC/ARF/29/230321
Source of Sample	: Sponge Iron Plant
Sampling Date	: 27.03.2023
Period of Analysis	: 29.03.2023
Sampling Location	: ESP Stack
0 1 0 11.1	0 1 10 0

Format No.: EC/TRT/42/FM/01

Sample Condition : Sealed & Preserved Sample Stamped as : TH - 230

Sample Drawn By : ECO CARE Sampling Plan &

Procedure : EC/SOP/03/01

Remarks .----Deviation if any : None

### GENERAL INFORMATION Particular of the Plant

: Sponge Iron Plant

2 Emission Due to : Reduction of Iron Ore & Oxidation of Coal

3 Stack Connected to : Rotary Kiln No. 1 & 2 (100 TPDx2) Both in Operation

Material of Construction Stack Height from G.L. : 33.0 m

Height of Sampling Port from G.L. 6 : 20.0 m Height of Sampling Port from L.D.Z. 7

Dimension of Stack at Sampling Port : 1.80 m Shape of the Stack : Circular O

10 Working Load : Iron Ore - 6.2 MT/hr each kiln

#### FUEL CHARACTERISTIC REPORT

I	Source of Energy	: Coal, As Reducing Agent
2	Energy Consumption	: Coal – 4.0 MT/hr each kiln
3	Calorific Value (K-Cal/Kg)	:

## DESILITE OF SAMPLING CASEOUS EMISSION ANALYSIS

KE	SULTS OF SAMPLING GASEOUS I	EMISSION ANALYSIS	Method
1	Flue Gas Temperature	132 °C	IS 11255 : Part 3
2	Barometric Pressure	752 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.25 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	48347 Nm <sup>3</sup> / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	26.14 mg/Nm <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	8.8 %	IS 13270
7	Concentration of SO <sub>2</sub>	111.75 mg/Nm <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO,	62.16 mg/Nm <sup>3</sup>	IS 11255: Part 7

- Test values are reported based on the samples received.
- 2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
- 3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatory







Email: ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur

Asansol - 713304 Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000000507F

Format No.: EC/TRT/42/FM/01

#### TEST REPORT

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03033	Source of Sample	: Sponge Iron Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 27.03.2023
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.2023
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Maithan Steel & Power Limited	Sample Condition	: Sealed & Preserved
	(Unit – I)	Sample Stamped as	: TH - 228
	Vill + P.O - Bonra, P.S - Neturia	Sample Drawn By	: ECO CARE
	Dist - Purulia	Sampling Plan &	
	West Bengal - 723121	Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

GE.	NERAL	INFO	)RMA	TION	

	ALEKAL INFORMATION		
1	Particular of the Plant	: Sponge Iron Plant	
2	Emission Due to	: Process Activity	
3	Stack Connected to	: Bag Filter at Cooler Discharge	
4	Material of Construction	: M.S	
5	Stack Height from G.L.	: 25.0 m	
6	Height of Sampling Port from G.L.	: 15.0 m	
7	Height of Sampling Port from L.D.Z.	:	
8	Dimension of Stack at Sampling Port	: 0.50 m	
9	Shape of the Stack	: Circular O	
10	Working Load	: 100 TPD x 2	

#### FUEL CHARACTERISTIC REPORT

1	Source of Energy	:	
2	Energy Consumption	:	
3	Calorific Value (K-Cal/Kg)	:	

#### RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

RI	SULTS OF SAMPLING GASEOUS I	Method	
1	Flue Gas Temperature	49 °C	IS 11255 : Part 3
2	Barometric Pressure	752 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.51 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	4868 Nm <sup>3</sup> / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	20.64 mg/Nm <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide		IS 13270
7	Concentration of SO <sub>2</sub>		IS 11255 : Part 2
8	Concentration of NO,		IS 11255 : Part 7

- Test values are reported based on the samples received.
- 2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
- 3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory







Email: ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

# Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

#### ULR NO - TC510923000000508F

## Format No.: EC/TRT/42/FM/01

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03034	Source of Sample	: Sponge Iron Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 27.03.2023
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.2023
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Maithan Steel & Power Limited	Sample Condition	: Sealed & Preserved
	(Unit - I)	Sample Stamped as	: TH - 229
	Vill + P.O - Bonra, P.S - Neturia	Sample Drawn By	: ECO CARE
	Dist - Purulia	Sampling Plan &	
	West Bengal - 723121	Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

#### GENERAL INFORMATION

GL	MERAL INFORMATION		
1	Particular of the Plant	: Sponge Iron Plant	
2	Emission Due to	: Process Activity	İ
3	Stack Connected to	: Bag Filter at I-Bin (Intermediate Bin)	
4	Material of Construction	: M.S	
5	Stack Height from G.L.	: 30.0 m	
6	Height of Sampling Port from G.L.	: 20.0 m	
7	Height of Sampling Port from L.D.Z.	:	
8	Dimension of Stack at Sampling Port	: 0.60 m	
9	Shape of the Stack	: Circular Ø	
10	Working Load	:	

#### FUEL CHARACTERISTIC REPORT

1	Source of Energy	: ****
2	Energy Consumption	
3	Calorific Value (K-Cal/Kg)	:

#### RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

1	Flue Gas Temperature	42 °C	IS 11255 ; Part 3
2	Barometric Pressure	752 mm Hg	IS 11255: Part 3
3	Velocity of Flue Gas	6.82 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	6506 Nm <sup>3</sup> / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	24.75 mg/Nm <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide		IS 13270
7	Concentration of SO <sub>2</sub>		IS 11255 : Part 2
8	Concentration of NO,		IS 11255: Part 7

- 1. Test values are reported based on the samples received.
- Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
- 3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

Method







Email: ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

# Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000000510F

Format No.: EC/TRT/42/FM/01

#### TEST REPORT

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03036	Source of Sample	: Sponge Iron Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 27.03.2023
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.2023
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Maithan Steel & Power Limited	Sample Condition	: Sealed & Preserved
	(Unit – I)	Sample Stamped as	: TH - 231
	Vill + P.O - Bonra, P.S - Neturia	Sample Drawn By	: ECO CARE
	Dist - Purulia	Sampling Plan &	
	West Bengal - 723121	Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

#### GENERAL INFORMATION

1	Particular of the Plant	: Sponge Iron Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at Product House
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 24.38 m
6	Height of Sampling Port from G.L.	: 7.62 m
7	Height of Sampling Port from L.D.Z.	;
8	Dimension of Stack at Sampling Port	: 0.60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 100 TPD x 2

#### FUEL CHARACTERISTIC REPORT

1	Source of Energy	:	
2	Energy Consumption	:	
3	Calorific Value (K-Cal/Kg)	;	

#### RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS Method

1	Flue Gas Temperature	40 °C	IS 11255 : Part 3
2	Barometric Pressure	752 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	6.99 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	6708 Nm <sup>3</sup> / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	16.94 mg/Nm <sup>3</sup>	1S 11255 : Part 1
6	Concentration of Carbon Dioxide		IS 13270
7	Concentration of SO <sub>2</sub>		IS 11255 : Part 2
8	Concentration of NO.		IS 11255: Part 7

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Format No.: EC/TRT/42/FM/03

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Dist. Paschim Bardhaman (W.B.)

## Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000000511F

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03037	Source of Sample	: Sponge Iron Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 27.03.23 to 28.03.23
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.23 to 30.03.23
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Maithan Steel & Power Limited	Remarks	:

Sampling Plan & (Unit - I)

Vill + P.O - Bonra, P.S - Neturia Procedure

: EC/SOP/03/01 Dist - Purulia Sample Drawn By : ECO CARE Deviation if any West Bengal - 723121 : None

#### METEOROLOGICAL INFORMATION

1	Average Temperature	32.2 °C	2	Barometric Pressure	752 mm Hg
3	Average Relative Humidity	52.0 %	4	Weather Condition	Clear Day

TEST METHOD	IS: 5182 ( Part – 2 )	IS: 5182 (Part – 6)	IS: 5182 ( Part – 23 )	EPA CFR40(pt50), Appendix 1
PARAMETERS	SO <sub>2</sub> (μg/m³)	NO <sub>s</sub> (μg/m³)	$PM_{10}(\mu g/m^3)$	PM <sub>2.5</sub> (μg/m <sup>3</sup> )
Method Detection Limit	5	8	20	10 60
Industrial Area Standard Limit	80	80	100	
1. Sampling Location : Near Main	n Gate			
Shift - A (09:10 AM To 05:10 PM)	41.53	40.52	86.31	
Shift - B (05:20 PM To 01:20 AM)	29.44	27.64	74.18	1
Shift - C (01:30 AM To 09:30 AM)	33.47	35.10	81.27	37.08
Average (Shift - A To Shift - C)	34.81	34.42	80.59	

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ULR NO - TC510923000000512F

### Format No.: EC/TRT/42/FM/03

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03038	Source of Sample	: Sponge Iron Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 27.03.23 to 28.03.23
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.23 to 30.03.23
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Maithan Steel & Power Limited	Remarks	:
	(Unit - I)	Sampling Plan &	
	Vill + P.O - Bonra, P.S - Neturia	Procedure	: EC/SOP/03/01
	Dist - Purulia	Sample Drawn By	: ECO CARE
	West Bengal - 723121	Deviation if any	: None

#### METEOROLOGICAL INFORMATION

1	Average Temperature	32.2 °C	2	Barometric Pressure	752 mm Hg
3	Average Relative Humidity	52.0 %	4	Weather Condition	Clear Day

TEST METHOD	IS: 5182   IS: 5182 (Part - 2)   (Part - 6)		1S: 5182 ( Part – 23 )	EPA CFR40(pt50). Appendix 1
PARAMETERS	SO <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>s</sub> (μg/m³)	$PM_{10}(\mu g/m^3)$	PM <sub>2.5</sub> (μg/m <sup>3</sup> )
Method Detection Limit	5	8	20	10
Industrial Area Standard Limit	80	80	100	60
2. Sampling Location: Near Mur	ulia Village (O	ut Side of the P	lant)	
Shift - A (08:20 AM To 04:20 PM)	33.47	37.13	67.12	
Shift - B (04:30 PM To 12:30 AM)	21.37	26.29	52.29	20.41
Shift - C (12:40 AM To 08:40 AM)	29.44	33.06	61.34	30.41
Average (Shift - A To Shift - C)	28.09	32.16	60.25	
3. Sampling Location: Near Mau	tha Village (O	ut Side of the Pl	ant)	
Shift - A (08:40 AM To 04:40 PM)	25.40	28.32	68.49	
Shift - B (04:50 PM To 12:50 AM)	13.31	21.55	58.15	20.71
Shift - C (01:00 AM To 09:00 AM)	21.37	25.61	64.52	28.71
Average (Shift - A To Shift - C)	20.03	25.16	63.72	
4. Sampling Location : Near Bonn	a Village (Out	Side of the Plan	nt)	
Shift - A (09:00 AM To 05:00 PM)	29.44	32.39	75.08	
Shift - B (05:10 PM To 01:10 AM)	17.34	23.58	57.63	24.22
Shift - C (01:20 AM To 09:20 AM)	25.40	29.68	60.23	34.22
Average (Shift - A To Shift - C)	24.06	28.55	64.31	

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ULR NO - TC510923000000521F

#### TEST REPORT

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03047	Source of Sample	: Sponge Iron Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 27.03.23 to 28.03.23
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 27.03.23 to 28.03.23
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Maithan Steel & Power Limited	Remarks	:
	(Unit – I)	Sampling Plan &	
	Vill + P.O - Bonra, P.S - Neturia	Procedure	: EC/SOP/03/01
	Dist - Purulia	Sample Drawn By	: ECO CARE
	West Bengal - 723121	Deviation if any	: None

### METEOROLOGICAL INFORMATION

1	Average Temperature	32.2 °C	2	Barometric Pressure 752 mm Hg
3	Average Relative Humidity	52.0 %	4	Weather Condition Clear Day

#### CARBON MONOXIDE ANALYSIS REPORT

1. Sampling Location : Near Main Gate (Inside of the Plant)						
PARAMETERS	TEST METHOD	UNIT	INDUSTRIAL AREA STANDARD LIMIT	RESULT		
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m³	10.0	0.167		

2. Sampling Location : Near	2. Sampling Location : Near Murulia Village (Out Side of the Plant)						
PARAMETERS	TEST METHOD	UNIT	RESIDENTIAL,RI RAL & OTHER AREAS STANDARD LIMIT	RESULT			
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m³	4	0.132			

3. Sampling Location : Near Mautha Village (Out Side of the Plant)						
PARAMETERS	TEST METHOD	UNIT	RESIDENTIAL,RURAL & OTHER AREAS STANDARD LIMIT	RESULT		
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m³	4	0.113		

4. Sampling Location: Near Bonra Village (Out Side of the Plant)						
PARAMETERS	TEST METHOD	UNIT	RESIDENTIAL,RURAL & OTHER AREAS STANDARD LIMIT	RESULT		
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m³	4	0.126		

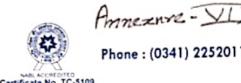
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Authorised Signatory
Dr. Mousumi Pal
Ph.D.(Env.), Scientist
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ULR NO - TC510923000000513F

Format No.: EC/TRT/42/FM/03

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No.(ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03039	Source of Sample	: Sponge Iron Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 27.03.2023
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 29.03.23 to 30.03.23
Sample Details	: Fugitive Air	Sample Condition	: Sealed & Preserved
Name & Address	: Maithan Steel & Power Limited	Remarks	:
	(Unit – I)	Sampling Plan &	
	Vill + P.O - Bonra, P.S - Neturia	Procedure	: EC/SOP/03/01
	Dist – Purulia	Sample Drawn By	: ECO CARE
	West Bengal - 723121	Deviation if any	: None

#### METEOROLOGICAL INFORMATION

1	Average Temperature	32.2 °C	2	Barometric Pressure	752 mm Hg
3	Average Relative Humidity	52.0 %	4	Weather Condition	Clear Day

SI.				
No.	Parametrs	Test Method	Industrial Area Standard Limit	Results
(i)	Concentration of Suspended Particulate Matter	IS: 5182 (Part – 4)	500 μg/m³	412.62 μg/m <sup>3</sup>
2.	Sampling Location : Near Raw Material Yard			
SI. No.	Parametrs	Test Method	Industrial Area Standard Limit	Results
(i)	Concentration of Suspended Particulate Matter	IS: 5182 (Part – 4)	500 μg/m³	434.73 μg/m <sup>3</sup>

- 1. Test values are reported based on the samples received.
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Annexure-VII

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ULR NO - TC510923000000514F

Format No.: EC/TRT/42/FM/06

#### TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by

: 03.04.2023 : EC/TR/42/0

: EC/TR/42/03040 : Surface Water

: Surface Water : Mr. Sumit Sarkar

: Supply Water

Sample Details : Sup Name & Address : Mai

: Maithan Steel & Power Limited

(Unit – I)

Vill + P.O - Bonra, P.S - Neturia

Dist - Purulia

West Bengal - 723121

Sample Ref. No (ARF) : EC/ARF/29/230321 Source of Sample : Sponge Iron Plant Sampling Date : 28.03.2023

Period of Analysis : 29.03.23 to 30.03.23
Sampling Location : Near Office

Sampling Location : Near Office Sample Condition : Sealed & Preserved

Sample Stamped as : MSPL - 01 Sample Drawn By : ECO CARE

Remarks Sampling Plan &

Procedure Deviation if any : EC/SOP/03/01

: None

: ----

SI. No.	Parameters	Unit	Test Method (APHA 23rd Edition)	Standards (IS:10500)	Results
1	pH at 25.5 °C		4500-H* B	6.5 - 8.5	7.12
2	TDS	mg/l	2540 C	500.0	279.10
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	92.70
5	Chloride (as Cl')	mg/l	4500 - Cl B	250.0	20.20
6	Calcium (as Ca <sup>2*</sup> )	mg/l	3500 – Ca B	75.0	34.34
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	110.16
9	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.06
10	Sulphate (as SO <sub>4</sub> ')	mg/l	4500 - SO <sub>4</sub> 2- E	200.0	12.77
11	Magnesium (as Mg)	mg/l	3500 – Mg B	30.0	5.95
12	Arsenic	mg/l	IS 3025 (Part-37)	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	4500F- B & D	1.0	0.24
15	Nitrate (asNO <sub>3</sub> )	mg/l	4500 - NO <sub>3</sub> . B	45.0	1.72
16	Chlorine Residual	mg/l	4500 - Cl B	0.2	< 0.50

Test values are reported based on the samples received.

Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

3. The Test report shall not be reproduced, without the written approval of laboratory.

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ULR NO - TC510923000000514P

### TEST REPORT (Part - B)

Sample Ref. No (ARF) : EC/ARF/29/230321 Report Release Date : 03.04.2023 : Sponge Iron Plant Source of Sample : EC/TR/42/03040 Test Report No : 28.03.2023 Sampling Date Type of Sample : Surface Water : 29.03.23 to 30.03.23 Sample Collected by Period of Analysis : Mr. Sumit Sarkar Sampling Location : Near Office Sample Details : Supply Water : Maithan Steel & Power Limited Sample Condition : Sealed & Preserved Name & Address : MSPL - 01 Sample Stamped as (Unit - I) : ECO CARE Vill + P.O - Bonra, P.S - Neturia Sample Drawn By Dist - Purulia Remarks Sampling Plan & West Bengal - 723121 : EC/SOP/03/01 Procedure Deviation if any : None

SI. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (1S:10500)	Results
17	Odour		2150B	Agreeable	Agreeable
18	Taste		2160 B		Agreeable
19	T. Coliform	MPN/100ml	9221 B	Not Detectable	Not Detected
20	E. Coli or Thermo tolerant Coliform Bacteria	MPN/100ml	9221 B	Absent	Absent

1. Test values are reported based on the samples received.

Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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Annexure-VIII

Certificate No. TC-5109

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ULR NO - TC510923000000518F

Format No.: EC/TRT/42/FM/06

#### TEST REPORT

Report Release Date : 03.04.2023 : EC/ARF/29/230321 Sample Ref. No (ARF) Test Report No : EC/TR/42/03044 Source of Sample : Sponge Iron Plant Type of Sample : Ground Water Sampling Date : 28.03.2023 Sample Collected by : Mr. Sumit Sarkar Period of Analysis : 29.03.2023 : Bore Well of Sampling Location Sample Details : Bore Well Inside the Factory Name & Address : Maithan Steel & Power Limited Sample Condition : Sealed & Preserved (Unit - I) Sample Stamped as : MS - 05 Vill + P.O - Bonra, P.S - Neturia Sample Drawn By : ECO CARE Dist - Purulia Remarks : ----West Bengal - 723121 Sampling Plan & : EC/SOP/03/01 Procedure Deviation if any : None

SI. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (IS:10500)	Results
1	pH at 25.5 °C		4500-H* B	6.5 - 8.5	7.36
2	TDS	mg/l	2540 C	500.0	307.20
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	112.27
5	Chloride (as Cl')	mg/l	4500 - Cl B	250.0	28.09
6	Calcium (as Ca <sup>2</sup> *)	mg/l	3500 – Ca B	75.0	37.61
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	120.36
9	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.08
10	Sulphate (as SO <sub>4</sub> )	mg/l	4500 - SO <sub>4</sub> <sup>2</sup> · E	200.0	24.63
11	Magnesium (as Mg)	mg/l	3500 – Mg B	30.0	6.44
12	Arsenic	mg/l	IS 3025 (Part-37)	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	4500F- B & D	1.0	0.35
15	Nitrate (asNO <sub>3</sub> )	mg/l	4500 - NO, B	45.0	2.75
16	Chlorine Residual	mg/l	4500 - Cl B	0.2	< 0.50

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ULR NO - TC510923000000515F

#### TEST REPORT

	TEST IVE	O	
Report Release Date	: 03.04.2023	Sample Ref. No (ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03041	Source of Sample	: Sponge Iron Plant
Type of Sample	: Ground Water	Sampling Date	: 28.03.2023
Sample Collected by	: Mr. Sumit Sarkar	Period of Analysis	: 29.03.2023
Sample Details	: Bore Well	Sampling Location	: Murulia Village
Name & Address	: Maithan Steel & Power Limited	Sample Condition	: Sealed & Preserved
	(Unit – I)	Sample Stamped as	: MS - 02
	Vill + P.O - Bonra, P.S - Neturia	Sample Drawn By	: ECO CARE
	Dist - Purulia	Remarks	:
	West Bengal - 723121	Sampling Plan &	
		Procedure	: EC/SOP/03/01
		Deviation if any	: None

SI. No.	Parameters	Unit	Test Method (APHA 23rd Edition)	Standards (IS:10500)	Results
1	pH at 25.7 °C		4500-H B	6.5 - 8.5	6.88
2	TDS	mg/l	2540 C	500.0	257.40
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	89.61
5	Chloride (as Cl')	mg/l	4500 – Cl. B	250.0	19.71
6	Calcium (as Ca <sup>2+</sup> )	mg/l	3500 – Ca B	75.0	31.89
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	106.08
9	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.11
10	Sulphate (as SO <sub>4</sub> ')	mg/l	4500 – SO <sub>4</sub> <sup>2</sup> · E	200.0	27.22
11	Magnesium (as Mg)	mg/l	3500 – Mg B	30.0	6.44
12	Arsenic	mg/l	IS 3025 (Part-37)	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	4500F- B & D	1.0	0.22
15	Nitrate (asNO <sub>3</sub> )	mg/l	4500 - NO <sub>3</sub> B	45.0	1.43
16	Chlorine Residual	mg/l	4500 - Cl B	0.2	< 0.50

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ULR NO - TC510923000000516F

Format No.: EC/TRT/42/FM/06

: None

#### **TEST REPORT**

Report Release Date : 03.04.2023 Sample Ref. No (ARF) : EC/ARF/29/230321 Test Report No : EC/TR/42/03042 Source of Sample : Sponge Iron Plant Type of Sample : Ground Water Sampling Date : 28.03.2023 Sample Collected by : Mr. Sumit Sarkar Period of Analysis : 29.03.2023 Sample Details : Bore Well Sampling Location : Mautha Village Name & Address : Maithan Steel & Power Limited Sample Condition : Sealed & Preserved (Unit - I) Sample Stamped as : MS - 03 Vill + P.O - Bonra, P.S - Neturia Sample Drawn By : ECO CARE Dist - Purulia Remarks : ----West Bengal - 723121 Sampling Plan & Procedure : EC/SOP/03/01

Deviation if any

Sl. No.	Parameters	Unit	Test Method (APHA 23rd Edition)	Standards (IS:10500)	Results
1	pH at 25.6 °C		4500-H B	6.5 - 8.5	7.34
2	TDS	mg/l	2540 C	500.0	266.40
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	97.85
5	Chloride (as Cl')	mg/l	4500 - Cl B	250.0	18.23
6	Calcium (as Ca <sup>2+</sup> )	mg/l	3500 – Ca B	75.0	32.71
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	112.20
9	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.14
10	Sulphate (as SO <sub>4</sub> ')	mg/l	4500 - SO <sub>4</sub> <sup>2</sup> · E	200.0	20.17
11	Magnesium (as Mg)	mg/l	3500 - Mg B	30.0	7.44
12	Arsenic	mg/l	IS 3025 (Part-37)	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	4500F- B & D	1.0	0.30
15	Nitrate (asNO <sub>3</sub> )	mg/l	4500 - NO <sub>3</sub> B	45.0	1.30
16	Chlorine Residual	mg/l	4500 - Cl B	0.2	< 0.50

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ULR NO - TC510923000000517F

Format No.: EC/TRT/42/FM/06

#### TEST REPORT

Report Release Date : 03.04.2023 Test Report No : EC/TR/42/03043 Type of Sample : Ground Water

Sample Collected by Sample Details Name & Address

: Mr. Sumit Sarkar : Bore Well

. Maithan Steel & Power Limited

(Unit - I)

Vill + P.O - Bonra, P.S - Neturia

Dist - Purulia

West Bengal - 723121

Sample Ref. No (ARF) : EC/ARF/29/230321 Source of Sample : Sponge Iron Plant

Sampling Date Period of Analysis Sampling Location

: 29.03.2023 : Bonra Village

: 28.03.2023

Sample Condition Sample Stamped as : Sealed & Preserved : MS - 04

Sample Drawn By Remarks

: ECO CARE

: ----

Sampling Plan &

Procedure

: EC/SOP/03/01

Deviation if any : None

SI. No.	Parameters	Unit	Test Method (APHA 23rd Edition)	Standards (IS:10500)	Results
1	pH at 25.7 °C		4500-H* B	6.5 - 8.5	7.27
2	TDS	mg/l	2540 C	500.0	237.40
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	101.97
5	Chloride (as Cl')	mg/l	4500 - C1 B	250.0	21.19
6	Calcium (as Ca <sup>2</sup> *)	mg/l	3500 – Ca B	75.0	27.80
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	102.00
9	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.10 17.76
10	Sulphate (as SO <sub>4</sub> )	mg/l	4500 - SO <sub>4</sub> <sup>2</sup> · E	200.0	
11	Magnesium (as Mg)	mg/l	3500 - Mg B	30.0	7.93
12	Arsenic	mg/l	IS 3025 (Part-37)	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	4500F- B & D	1.0	0.33
15	Nitrate (asNO <sub>3</sub> )	mg/l	4500 - NO <sub>3</sub> B	45.0	1.95
16	Chlorine Residual	mg/l	4500 - Cl' B	0.2	< 0.50

Test values are reported based on the samples received.

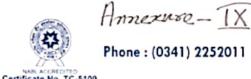
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

The Test report shall not be reproduced, without the written approval of laboratory.

Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.), Scientist **Authorised Signatory** 





Phone: (0341) 2252011

Email: ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

### Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000000519F

Format No.: EC/TRT/42/FM/07

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No (ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03045	Source of Sample	: Sponge Iron Plant
Type of Sample	: Noise	Sampling Date	: 27.03.23 to 28.03.23
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	:
Sample Details	: Ambient Noise (Inside of the Plant)	Sample Condition	
Name & Address	: Maithan Steel & Power Limited	Remarks	:
	(Unit - I)	Sample Drawn By	: ECO CARE
	Vill + P.O - Bonra, P.S - Neturia	Sampling Plan &	
	Dist - Purulia	Procedure	: EC/SOP/03/01
	West Bengal - 723121	Deviation if any	: None

#### METEOROLOGICAL INFORMATION

1	Average Temperature ( °C )	32.2
2	Average Relative Humidity (%)	52.0
3	Barometric Pressure (mm of Hg)	752
4	Weather Condition	Clear Day

Noise Limit in dB(A) Leq

Area Code	Category of Area	Night Time (9 P.M - 6 A.M)	Day Time ( 6A.M - 9 P.M )
A	Industrial Area	70	75
В	Commercial Area	55	65
С	Residential Area	45	55
D	Silence Zone	40	50

AMBIENT NOISE QUALITY REPORT

Sampling Location			NOISE LEVEL		
Sampling Location		Minimum	Leq – Mean	Maximum	
Near Main Gate	Day	66.80 dB(A)	71.25 dB(A)	74.20 dB(A)	
1. Near Main Gate	Night	59.10 dB(A)	66.82 dB(A)	70.90 dB(A)	
2 Near Board Village	Day	51.10 dB(A)	53.63 dB(A)	58.10 dB(A)	
2. Near Bonra Village	Night	41.20 dB(A)	43.61 dB(A)	49.30 dB(A)	
2. Near Manuella Willean	Day	50.30 dB(A)	54.66 dB(A)	59.30 dB(A)	
3. Near Murulia Village	Night	40.30 dB(A)	44.94 dB(A)	50.60 dB(A)	

- 1. Test values are reported based on the samples received.
- 2. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.), Scientist **Authorised Signatory** 







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Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

# Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

#### ULR NO - TC510923000000520F

### Format No. ; EC/TRT/42/FM/07

#### **TEST REPORT**

Report Release Date	: 03.04.2023	Sample Ref. No (ARF)	: EC/ARF/29/230321
Test Report No	: EC/TR/42/03046	Source of Sample	: Sponge Iron Plant
Type of Sample	: Noise	Sampling Date	: 27.03.23 to 28.03.23
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	:
Sample Details	: Source Noise (Inside of the Plant)	Sample Condition	:
Name & Address	: Maithan Steel & Power Limited	Remarks	:
	(Unit – I)	Sample Drawn By	: ECO CARE
	Vill + P.O - Bonra, P.S - Neturia	Sampling Plan &	
	Dist - Purulia	Procedure	: EC/SOP/03/01
	West Bengal - 723121	Deviation if any	: None

Standard Noise Limit in dB(A) Leq & Sampling Location: Near DRI Area

Area Code	Category of Area	Night Time (9 P.M-6 A.M)	Day Time ( 6A.M - 9 P.M )
A	Industrial Area	70	75
В	Commercial Area	55	65
С	Residential Area	45	55
D	Silence Zone	40	50

SL No.	Time	Minimum	Leq - Mean	Maximum
1	10:10Hrs to11:10 Hrs	69.10 dB(A)	70.91 dB(A)	73.50 dB(A)
2	11:10 Hrs to12:10 Hrs	62.60 dB(A)	68.38 dB(A)	71.80 dB(A)
3	12:10 Hrs to01:10 Hrs	50.70 dB(A)	59.67 dB(A)	64.10 dB(A)
4	01:10 Hrs to02:10 Hrs	59.40 dB(A)	68.07 dB(A)	74.80 dB(A)
5	02:10 Hrs to03:10 Hrs	51.60 dB(A)	59.63 dB(A)	62.90 dB(A)
6	03:10 Hrs to04:10 Hrs	47.80 dB(A)	58.40 dB(A)	62.70 dB(A)
7	04:10 Hrs to05:10 Hrs	62.10 dB(A)	66.13 dB(A)	69.70 dB(A)
8	05:10 Hrs to06:10 Hrs	50.60 dB(A)	59.37 dB(A)	63.10 dB(A)
9	06:10 Hrs to07:10 Hrs	63.50 dB(A)	70.84 dB(A)	75.10 dB(A)
10	07:10 Hrs to08:10 Hrs	57.30 dB(A)	68.74 dB(A)	73.40 dB(A)
11	08:10 Hrs to 09:10 Hrs	57.10 dB(A)	65.04 dB(A)	69.60 dB(A)
12	09:10 Hrs to10:10 Hrs	51.30 dB(A)	60.11 dB(A)	64.20 dB(A)
13	10:10 Hrs to11:10 Hrs	66.70 dB(A)	70.16 dB(A)	72.70 dB(A)
14	11:10 Hrs to12:10 Hrs	48.10 dB(A)	57.92 dB(A)	62.00 dB(A)
15	12:10 Hrs to01:10 Hrs	54.70 dB(A)	60.35 dB(A)	63.40 dB(A)
16	01:10 Hrs to02:10 Hrs	44.60 dB(A)	59.20 dB(A)	61.40 dB(A)
17	02:10 Hrs to03:10 Hrs	49.00 dB(A)	64.44 dB(A)	68.50 dB(A)
18	03:10 Hrs to04:10 Hrs	60.50 dB(A)	69.30 dB(A)	74.80 dB(A)
19	04:10 Hrs to05:10 Hrs	50.80 dB(A)	58.90 dB(A)	62.30 dB(A)
20	05:10 Hrs to06:10 Hrs	62.30 dB(A)	69.13 dB(A)	73.20 dB(A)
21	06:10 Hrs to07:10 Hrs	63.40 dB(A)	67.83 dB(A)	70.30 dB(A)
22	07:10 Hrs to08:10 Hrs	67.20 dB(A)	69.91 dB(A)	72.40 dB(A)
23	08:10 Hrs to09:10 Hrs	65.40 dB(A)	67.92 dB(A)	71.30 dB(A)
24	09:10 Hrs to10:10 Hrs	59.10 dB(A)	63.34 dB(A)	66.60 dB(A)

1. Test values are reported based on the samples received.

2. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory
Dr. Mousumi Pal
Ph.D.(Env.), Scientist
Authorised Signatory

Annexure-X

## BARAKAR X-RAY CLINIC & SCAN CENTRE

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

To

THE MAITHAN STEEL & POWER LTD

BONRA

PO: - BONRA

PS: - NITURIA

DIST: - PURULIA (W.B.)

Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/284, DATED: -13/02/2023 FOLLOWING PATIENTS TEST DONE.
THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

- Kamakshya Dey
- 2. Manas Banerjee
- 3. Sandip Maji
- 4. Ajay Gorai
- 5. Samir Nandi
- 6. Sankujit Majee
- 7. Ashis Kabi
- 8. Santosh Kr. Poddar
- 9. Mintu Majee
- Abu Sahir

11. Pinaki Banerjee

DR. R. K. SHARMA Regd. Medical Practioner Regd. No. - 5415

BARAKAR X-RAY CLINIC & SCAN CENTRE G.T. ROAD, BARAKAR - 713344

Dr. Abir Guha MBBS, DNB, M D. (PATH) Consultant Pathologist Verified by -Chief Technologist (Path)

Dr. Manoj Kumar MD. (Radio-Diagnosis) Consultant Radiologist Dr. Abhishek Ghosh M B BS: DMRD Consulfart Radiologist

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

#### BARAKAR X-RAY CLINIC & SCAN CENTER TEST DONE ON-21.03.2023

					BL	OOD ANALY	'SIS					7	
SLNO	NAME	HEMOGLOBIN (gm/di)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCYTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	BASOPHIL (%)	ESR(mm)	BLOOD GROUP	ECG	PFT	X-RAY (CHEST)
1	Kamakshya Dey	11.3	8,300	50	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
2	Manas Banerjee	15.4	9,500	70	50	0	2	0	20	"A"+	SINUS TACHYCARDIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
3	Sandip Maji	13.1	11,400	70	39	0	1	0	10	"0"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
4	Ajay Gorai	13.6	8,600	60	60	0	4	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
5	Samir Nandi	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
6	Sankujit Majee	13.1	6,300	60	30	0	0	0	10	"A"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
7	Ashis Kabi	12.9	10,200	40	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
8	Santosh Kr. Poddar	14.2	7,400	80	50	2	8	0	45	"0"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
9	Mintu Majee	12.2	4,200	63	50	2	4	0	22	"O"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
_	Abu Sahir	14.3	10,500	46	20	0	0	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
11	Pinaki Banerjee	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT

## BARAKAR X-RAY CLINIC & SCAN CENTRE

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

TO
THE MAITHAN STEEL & POWER LTD
BONRA
PO: - BONRA
PS: - NITURIA

DIST: - PURULIA (W.B.)

Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/284, DATED: -13/02/2023 FOLLOWING PATIENTS TEST DONE.
THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

- Bapi Chatterjee
- 2. Nimai Majee
- 3. Pintu Majee
- 4. Pradip Nandi
- 5. Ramprasad Majee
- 6. Ramesh Layek
- 7. Ranjit Maikap
- 8. Sanjay Chakraborty
- 9. Srikanta Layek

10. Sukumar Maji

DR. R. K. SHARMA Regd. Medical Practioner Regd. No. - 5415 BARAKAR X-RAY CLINIC & SCAN SENTRE G.T. ROAD, BARAKAR - 71334

Dr. Abir Guha MBBS, DNB, M.D. (PATH) Consultant Pathologist Verified by -Chief Technologist (Path)

Dr. Manoj Kumar MD. (Radio-Diagnosis) Consultant Radiologist Dr. Abhishek Ghosh M B B S DMRD Consultarit Radiologist

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

#### BARAKAR X-RAY CLINIC & SCAN CENTER TEST DONE ON-18.03.2023

					BL	OOD ANALY	'SIS						
SLNO	View and the	немодговім (gm/dl)	WBC(СММ)	ЕИТВОРНІЦ (%)	LYMPHOCYTES (%)	MONOCYTES (%)	SINOPHILS (%)	BASOPHIL (%)	ESR(mm)	BLOOD GROUP			
2			_	NE C			60				ECG	PFT	X-RAY (CHEST)
1	Bapi Chatterjee	12.1	9,500	63	35	0	2	0	10	"B"+	SINUS RHYTHM	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
2	Nimai Majee	10.3	6,300	70	30	0	0	0	10	"AB"+	SINUS ARRHYTHMIA	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
3	Pintu Majee	15.5	4,200	60	40	0	0	0	12	"0"+	SINUS ARRHYTHMIA	MILD RESTRICTION	WITHIN NORMAL LIMIT
4	Pradip Nandi	12.9	8,800	70	30	0	0	0	10	"A"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
5	Ramprasad Majee	14.2	8,600	60	35	1	4	0	12	"8"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
6	Ramesh Layek	15.0	8,200	70	23	2	5	0	6	"O"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
7	Ranjit Maikap	13.8	6,100	70	20	2	8	0	14	"B"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
8	Sanjay Chakraborty	14.0	10,500	80	20	0	0	0	8	"A"+	SINUS ARRHYTHMIA	SEVERE RESTRICTION	WITHIN NORMAL LIMIT
9	Srikenta Layek	14.9	9,000	60	4	0	0	0	12	"0"+	INCOMPLETE RIGHT BUNDLE BRANCH BLOCK	MILD RESTRICTION	WITHIN NORMAL LIMIT
10	Sukumar Maji	15.6	5,200	65	30	1	4	0	15	<b>"</b> O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT

## BARAHAR X-RAY CLINIC & SCAN CENTRE

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

To

THE MAITHAN STEEL & POWER LTD

**BONRA** 

PO: - BONRA

PS: - NITURIA

DIST: - PURULIA (W.B.)

Dear Sir,

AS PER YOUR WORK ORDER NO: - MSPLU-2/23-24/284, DATED: -13/02/2023 FOLLOWING PATIENTS TEST DONE.
THE ENCLOSE FILE GIVEN AS AN ATTACHMENT.

- 1. Puren Das
- 2. Dablu Rout
- 3. Khokan Das
- 4. Manoj Layak
- Monikanta Layek
- 6. Sadhan Chakraborty
- Shyamal Majee
- 8. Biswanath Nandi

9. Megnath Chakraborty

10. Ashish Majee

DR. R. K. SHARMA Regd. Medical Practioner Regd. No. - 5415

BARAKAR X-RAY CLINIC & SCAN CENTRE G.T. ROAD, BARAKAR - 713344

Dr. Abir Guha MBBS, DNB, M D. (PATH) Consultant Pathologist Verified by -Chief Technologist (Path)

Dr. Manoj Kumar MD (Radio-Diagnosis) Consultant Radiologist Dr. Abhishek Ghosh M B B S. DMRD Consultant Radiologist

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

## BARAKAR X-RAY CLINIC & SCAN CENTER TEST DONE ON-14.03.2023

	1							ON-14.03.2	023				
1	1				BLO	OOD ANALY	SIS						
SLNO	NAME	немодговім (gm/di)	WBC(CMM)	NEUTROPHIL (%)	LYMPHOCYTES (%)	MONOCYTES (%)	EOSINOPHILS (%)	ВАЅОРНІІ (%)	ESR(mm)	вгоор скоир	ECG	PFT	X-RAY (CHEST)
1	Puren Das	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
2	Dablu Rout	13.1	11,400	70	39	0	1	0	10	"0"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
3	Khokan Das	14.9	9,000	80	35	1	4	0	12	"B"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
4	Manoj Layak	13.8	7,500	70	30	0	0	0	5	"0"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
5	Monikanta Layek	13.6	7,900	44	19	0	1	0	5	"AB"+	LEFT VENTRICULAR HYPERTROPHY	NORMAL SPIROMETRY	FIBROTIC SCARRING LEFT UPPER ZONE
6	Sadhan Chakraborty	13.8	7,500	70	30	0	0	0	5	"O"+	SINUS RHYTHM	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
7	Shyamal Majee	13.6	8,600	60	60	0	4	0	15	"B"+	SINUS ARRHYTHMIA	MODERATE RESTRICTION	WITHIN NORMAL LIMIT
8	Biswanath Nandi	15.5	8,100	48	30	2	18	0	30	"B"+	SINUS RHYTHM	NORMAL SPIROMETRY	WITHIN NORMAL LIMIT
9	Megnath Chakraborty	13.1	6,300	60	30	0	0	0	10	"A"+	SINUS RHYTHM	MILD RESTRICTION	WITHIN NORMAL LIMIT
10	Ashish Majee	13.5	6,300	66	40	1	8	0	10	"0"+	SINUS BRADYCARDIA	MILD RESTRICTION	WITHIN NORMAL LIMIT

FORM NO. 17

### HEALTH

National

Mr. Aijit Osh

01. 12. 1972

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HEALTH

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#### REGISTER

as amended side Satisfication So. 1183.1 W-IN 131 dated 17th Sec. 1791]

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as amended side Satisfication Sa. 1183-1W-IR-171 dated 17th Nov. 1771]

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### HEALTH

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Prescribed under Rules 43 & 94 of the West Bengal Factories Rules, 1958

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#### REGISTER

as amended side Satisfication No. 1183-139-111-171 dated 27th Nos. 1771]

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### REGISTER

as amended side Antification No. 1153-135-116-171 dated 27th Nov. 1991]

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### REGISTER

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### REGISTER

HEALTH

Presended under Rules ed & 44 of the West Rengal Factories Rules, 1955

as amended title Notification No. 1183-1W-IR-191 dated 27th Nov. 1991]

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as assended side Nutification No. 1183-LW-198-171 dated 27th Nov. 1771]

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## **MAITHAN STEEL & POWER LIMITED**



#### TO WHOM IT MAY CONCERN

We have checked the Books of Accounts and relevant records of M/s. Maithan Steel & Power Ltd., having its Registered Office at 9, AJC Bose Road, 6th Floor, Kolkata-700017 and Sponge Iron plant at P.O.: Bonra, P.S.: Neturia, Dist.: Purulia, W.B.- 723121 based on our verification & examination and in accordance with the same as well as according to the information available & explanation given to us, we hereby certify that CER Budget and Actual Expenses incurred during F.Y. 2021-22 & 2022-23 balance Budget F.Y. 2023-24 by the company is hereunder:

(Rs. in Lakh)

(110. III Editin)					
	CER	Expenses Incurred		Balance Budget	
ACTIVITY	Budget	2021-22	2022-23	2023-24	
Sinking of new bore wells, pipelines in villages	45.00	1	9.20	۵	
Strengthening of villages approach roads, making drainages etc.	55.00	64.63		ACHIVED	
Electrification & Infrastructure Development of Surrounding Villages	10.00	1	22.95		
Infrastructure developments & assisting school in other renovation job	20.00	20.80	-	AD TIC	
Providing Tractors, dust bins and development of the dump yard.	15.00	-	36.67	XPNC	
Providing supports & awareness of local unemployed Peoples.	4.00		5.12	CER EXPNDITURE	
Miscellaneous Expenses		1.36	0.05	O	
Total:-	149.00	86.79	73.99		



Registered Office:

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

CIN: U27102WB2001PLC093321

Works: Unit-I

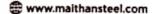
P.O. Bonra, P.S.: Neturia - 723121,

Dist.: Purulla, (WB)

Works: Unit-II

Chittaranjan Road, Dendua More, P.O. & P.S.: Salanpur - 713357,

Dist.: Paschim Bardhaman (WB)



## **MAITHAN STEEL & POWER LIMITED**



## **Environmental Policy**

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

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

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

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

Rev No: 02

Date: 27th September 2022

Director

Registered Office:

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

CIN: U27102WB2001PLC093321

Works: Unit-I

P.O. Bonra, P.S.: Neturia - 723121,

Dist.: Purulia, (WB)

Works: Unit-II

Chittaranjan Road, Dendua More, P.O. & P.S.: Salanpur - 713357,

Dist.: Paschim Bardhaman (WB)



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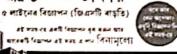
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come An Authorised Channel Partner Contact: 9830131061

Annexuse-XIV

### MAITHAN STEEL & POWER LIMITED



Rel. MSPL/EL/21 ad, Intimation

Date: 07/08/2021

In.

The Panchayat Pradhan Bhamuria Gram Panchayat District-Purulia West Bengal

Sub-Intimation of EC obtained for expansion of the existing 0.064 MTPA Sponge from Plant 10.0-17 MTPA Sponge from 2×9 MVA Arc Furnace for manufacturing of Ferro Alloys of 30,000 FPA the Mn, Si-Mn. Fe Si & Pig from Combined), from Ore Sinter Plant of 80,000 TPA, 1×40 TPH from Ore Washery of 2,40,000 TPA and 20 MW Power Plant 4V 4PH 12 MW & AFBC B MW by M/s. Maithan Steel & Power Lamited located at PO-Boura PS-Neturia, Purulia District, West Bengal

Rel: - EC No-1 -11011/554/2017-IA.II (I): Dated 26th July, 2021

Dear Sir.

With reference to the above mentioned subject, we would like to intimate you that the Environment Clearance (EC) vide file no. [-11011/554/2017-IAJI (I) dated 26th July, 2021 (Copy is enclosed as Annexure-I) for expansion the existing 0.064 MTPA Sponge Iron Plant to 0.17 MTPA Sponge Iron, 2x9 MVA Arc Furnace for manufacturing of Ferro Alloys of 30,000 TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron Combined), Iron Ore Sinter Plant of 80,000 TPA, 1x40 TPH Iron Ore Washery of 2.40,000 TPA and 20 MW Power Plant [WHRB-12 MW & AFBC-8 MW] by M/s. Maithan Steel & Power Limited located at PO-Bonra, PS-Neturia, Purulia District, West Bengal.

This is for your kind information. Please acknowledge the same

Hanking you,

with warm regards

or Mischallian Steet & Power Limited

Authorised Signatory

Enclosure: As above

Registered Office:

SENDEN GEAL

Arrian

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

91 33 4085 7200

CIN: U27102WB2001PLC093321

Works: Unit-I P.O. Bonra, P.S. Neturia - 723121.

Dist. Purulia (WB)

a www.maithansteel.com

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

£ 8651540007

## MAITHAN STEEL & POWER LIMITED



Ref. MSPL/EC/21-22/Intimation

TU.

The Block Development Officer Neturia, District-Purulia West Bengal

Sub. Intimation of EC obtained for expansion of the existing 0.064 MTPA Sponge Iron Plant to 0.17 MTPA Sponge Iron, 2x9 MVA Arc Fornace for manufacturing of Ferro Alloys of 30,000 TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron Combined), Iron Ore Sinter Plant of 10,000 TPA, 1x40 TPH Iron Ore Washery of 2,40,000 TPA and 20 MW Power Plant [WTIZB-12 MW & AFBC 8 MW] by M/s. Maithan Steel & Power Limited located at PO-Bonra, PS-Neturia, Purulia District, West Bengal

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This is for your kind information. Please acknowledge the same.

Thanking you,

With warm regards,

For M & Matthan Steel & Power Limited

Authorised Signatory

Enclosure: As above

Works: Unit-1 Works:

1202 mar

P.O. Bonra, P.S.: Neturla - 723121,

Dist.: Purulia, (WB)

CIN: U27102WB2001PLC093321

6th Floor, Kolkata - 700 O17.

9, A.J.C. Bose Road, Ideal Centre,

Registered Office:

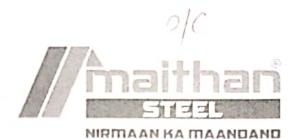
(c) +91 33 4085 7200

www.maithansteel.com

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

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## MAITHAN STEEL & POWER LIMITED



Ref. MSPL/EC/21-22/Intimation

Date: 07/08/2021

To,

The District Magistrate District-Purulia West Bengal

Sub. Intimation of EC obtained for expansion of the existing 0.064 MTPA Sponge Iron Plant to 0.17 MTPA Sponge Iron, 2x9 MVA Arc Furnace for manufacturing of Ferro Alloys of 30,000 TPA (Fe Mn. Si-Mn. Fe-Si & Pig Iron Combined), Iron Ore Sinter Plant of 80,000 TPA 1x-10 TPH Iron Ore Washery of 2,40,000 TPA and 20 MW Power Plant [WHRB-12 MW & AFBC-8 MW] by M/s. Maithan Steel & Power Limited located at PO-Bonra. PS-Neturia, Purulia District, West Bengal

Ref: - EC No- [-11011/554/2017-IA.II (I); Dated 26th July, 2021

Dear Sir,

With reference to the above mentioned subject, we would like to intimate you that the Environment Clearance (EC) vide file no. J-11011/554/2017-IA.II (I) dated 26<sup>th</sup> July, 2021 (Copy is enclosed as Annexure-I) for expansion the existing 0.064 MTPA Sponge Iron Plant to 0.17 MTPA Sponge Iron, 2x9 MVA Arc Furnace for manufacturing of Ferro Alloys of 30.000 TPA (Fe-Mn, Si-Mn, Fe-Si & Pig Iron Combined), Iron Ore Sinter Plant of 80,000 TPA, 1x40 TPH Iron Ore Washery of 2,40,000 TPA and 20 MW Power Plant [WHRB-12 MW & AFISC-8 MW] by M/s. Maithan Steel & Power Limited located at PO-Bonra, PS-Neturia, Purulia District, West Bengal.

This is for your kind information. Please acknowledge the same.

cel & Power Limited

Thanking you.

With warm regards,

(CL)

AuthorisenSignator

Enclosure: As above

Works: Unit-I

P.O. Bonra, P.S.: Neturia - 723121,

Dist.: Purulia, (WB)

CIN: U27102WB2001PLC093321

9, A.J.C. Bose Road, Ideal Centre,

6th Floor, Kolkata - 700 017,

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