



Jharkhand &lt;jam.env2018@gmail.com&gt;

**Sub:- Regarding compliance for the period October, 2021 to March, 2021 to the conditions of Environment Clearance for Expansion of Sponge Iron Plant to mini Steel plant for production of 67,500 TPA rolled product by installation of 2X12Ton induction furnace with billet caster, Iron ore crushing & beneficiation and 15 MW Captive Power Plant.**

1 message

Jharkhand &lt;jam.env2018@gmail.com&gt;

Sat, Jun 18, 2022 at 11:40 AM

To: ro.ranchi-mef@gov.in

Cc: rdkolkata.cpcb@gov.in, ranchijspcb@gmail.com, jspcb\_hazaribagh@rediffmail.com

Bcc: Jharkhand &lt;jam.env2018@gmail.com&gt;

MCC IPL/26/2022-23  
14/06/2022

To,  
The Additional Principal Chief Conservator of Forests (C),  
Government of India,  
Ministry of Environment, Forest & Climate Change,  
Integrated Regional Office (Eastern Central Zone),  
2nd Floor, Headquarter-Jharkhand State Housing Board,  
Harmu Chowk, Ranchi, Jharkhand- 834002

Sub:- Regarding compliance for the period October, 2021 to March, 2021 to the conditions of Environment Clearance for Expansion of Sponge Iron Plant to mini Steel plant for production of 67,500 TPA rolled product by installation of 2X12Ton induction furnace with billet caster, Iron ore crushing & beneficiation and 15 MW Captive Power Plant.

Ref: - Environment Clearance Letter No. **F.NO.** J - 11011 / 215 / 2016 - IA. II (I) dated 07/08/2019.

Dear Sir,  
In reference to the above subject matter & reference letter, the point wise Half Yearly compliance status for the period of October, 2021 to March, 2022 is being submitted for your kind perusal please.

Hope you will find this in order and oblige.

Thanking you.  
Yours faithfully

**For Maa Chhinnmastika Cement & Ispat Pvt Ltd.**



**MCC IPL - EC Compliance - Oct 21 to March 22.pdf**  
13361K

# MAA CHHINNMASTIKA CEMENT AND ISPAT PRIVATE LIMITED

**Registered Office & Works:**

**At- Hehal, Post - Barkakana - 829103, Dist- Ramgarh (Jharkhand)**

**CIN:U26941JH2004PTC010665**

**ramgarh\_jh@rediffmail.com**

**cementispat@rediffmail.com**

**ramgarh\_jh@rediffmail.com**

MCCIPL/26/2022-23

14/06/2022

To,

The Additional Principal Chief Conservator of Forests (C),  
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Thanking you.

Yours faithfully

**For Maa Chhinnmastika Cement & Ispat Pvt Ltd.**

*Santosh Kumar Gupta*

**Director**

Enclosures: Compliance status Report.

Cc to:-

- 1) The Zonal office Incharge, Central Pollution Control Board, Southernd Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.).
- 2) The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
- 3) Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh, Jharkhand.



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- Delete InProgress LAB Applications
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Welcome MAA CHHINNMASTIKA CEMENT N ISPAT PRIVATE LIMITED

Date : 14-6-2022

Your Compliance details has been Submitted. Your Acknowledgement Number is 13483720. Thank You!.

#### General

#### General Details

**Industry Name:** MAA CHHINNMASTIKA CEMENT N ISPAT PRIVATE LIMITED  
**Industry Address:** VILL- HEHAL, P.O- BARKAKANA, RAMGARH  
**Industry Pin:** 829103  
**Industry S.T.D. Code(Phone):** 06553  
**Industry Phone No:** 226846  
**Industry E-Mail Address:** cementispat@rediffmail.com  
**Occupier Name:** SANTOSH KUMAR GUPTA  
**Occupier Designation:** Director  
**Occupier Address:** HEHAL, BARKAKANA, DIST-RAMGARH (JHARKHAND)  
**Occupier Pin:** 829103  
**Occupier Mobile No:** 0000000000  
**Occupier Email Address:** cementispat@rediffmail.com  
**Industry Category:** RED  
**Industry Type:** Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units  
**Last Consent Granted App. No:**   
**Last Consent Granted Uploaded Certificate:** [View Uploaded Certificate](#)  
**Last Consent Granted App. Type:** CTE  
**Authorization to file Compliance:** [View File](#)

Proposal No.	State	Proposal Name	Category	User Agency Name	Proposal Recieved on	File No	Date of grant
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Environment Clearance letter issued vide F. NO. J-11011/215/2016-IA.II (I) Dated- 07/08/2019 from MOEF&CC, New Delhi.

**General Condition:**

[View](#)

**Specific Condition:**

[View](#)

Send us your **feedback** and suggestions

click here for any kind **complaints or query**

**Environment Clearance Compliance Status**  
**Period from October -2021 to March -2022**

<b>Name of Project:</b>	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.
<b>Capacity:</b>	Expansion of Sponge Iron Plant to mini Steel plant for production of 67,500 TPA rolled product by installation of 2X12 Ton induction furnace with billet caster, Iron ore crushing & beneficiation and 15 MW Captive Power Plant.
<b>Location:</b>	Village - Hehal, P.O – Barka kana, Distt. – Ramgarh, Jharkhand.
<b>EC letter No.</b>	F. NO. J-11011/215/2016-IA.II (I) Dated- 07/08/2019.

**A. SPECIFIC CONDITION:**

<b>Sl.No</b>	<b>CONDITION</b>	<b>COMPLIANCE</b>
1.	Particulate matter in the Stack emissions shall not exceed 30 mg/Nm <sup>3</sup> .	Noted for expansion project. Exiting sponge iron plant test monitoring report enclosed as <b>Annexure – 1.</b>
2.	Water for its plant operations shall be sourced by the project proponent from Damodar River, and no ground water shall be abstracted by them.	Being complied.
3.	Project proponent shall undertake rain water harvesting and recharge, and the quantum of water so channelized shall be more than the water consumption in the project area.	Noted, will be complied in due course.
4.	The CER activities shall be implemented within a period of 3 years utilizing the earmarked funds of Rs. 1.45 crores.	Noted, will be complied in due course.

**B. GENERAL CONDITION:**

<b>Sl.No</b>	<b>CONDITION</b>	<b>COMPLIANCE</b>
I	Statutory compliance :	
1.	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollutions) Act, 1981 and the Water (Prevention & Control Pollution) Act, 1974 from the concerned State Pollution Control Boards /Committee.	Being complied.
2.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.	Agree with. Water drawl agreement executed with DVC for drawl of water from Damodar River.
3.	The project proponent shall obtain authorization under the Hazardous and other Waster Management Rules, 2016 as amended from time to time.	Being complied.

II.	Air Quality monitoring and preservation:	
1.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time ; S.O. 3305(E) dated 7 <sup>TH</sup> December 2015(Thermal Power Plants ) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Being complied for existing coal based Sponge Iron plant online monitoring systems are installed for monitoring of PM & SO <sub>2</sub> emission of stack and it is connected online with Central Pollution Control Board and Jharkhand State Pollution Control Board URL server. Test monitoring report is enclosed as <b>Annexure – 1.</b> Noted for compliance in expansion project.
2.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Being complied for existing coal based Sponge Iron plant. Test monitoring report is enclosed as <b>Annexure – 1.</b> Noted for compliance in expansion project.
3.	The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>X</sub> in reference to SO <sub>2</sub> and NO <sub>X</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	As per direction of Jharkhand State Pollution Control Board vide letter no B-19 issued on 28/02/2019, we have installed Continuous Ambient Air Quality Monitoring Station for PM <sub>10</sub> parameter and it is connected online with Jharkhand State Pollution Control Board URL server. JSPCB submitted copy regarding installation with commissioning of PM <sub>10</sub> analyzer is enclosed as <b>Annexure -2.</b> Further we will comply in expansion project in due course.
4.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring report.	Monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality report of existing plant is enclosed as <b>Annexure – 3.</b> Noted for compliance in expansion project.
5.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all	Being complied for existing coal based Sponge Iron plant. Unit has installed 3 nos of ESP, 7

	vulnerable sources.	nos of Bag filters at each transfer points and sixty six nos of water sprinklers at various places within plant premises to control fugitive emission & stack emission. Unit has already installed bag filter at raw material handling area and all conveyor belts are covered. Noted for compliance in expansion project.
6.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
7.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors roofs, regularly.	Adequate arrangement of cleaning and sprinkling of water has been made. Noted, will be complied in due course in expansion project.
8.	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 for expansion project, will be complied in due course.
9.	The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
10.	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	For existing plant, units has provided coved storage shed have been provided for all raw materials like coal, Iron ore etc. Noted, will be complied in due course in expansion project.
11.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Noted, will be complied in due course.
12.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Noted, will be complied in due course.
<b>III.</b>	<b>Water quality monitoring and preservation :</b>	
1.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment(Protection)Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305(E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to	Being complied in existing unit. To fulfill ZLD compliance, unit has installed flow meter with web camera & its data has been uploaded on CPCB & JSPCB URL server. Noted, will be complied in due course.



	time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
2.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment(Protections) Act, 1986 and NABL accredited laboratories.	Being Complied on regular basis. Pre & Post monsoon Ground water quality monitoring & Piezometer reading enclosed as <b>Annexure – 4.</b>
3.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring report.	Noted, will be complied in due course.
4.	Adhere to 'Zero Liquid Discharge'	Agree with.
5.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Noted, will be complied in due course.
6.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277(E) 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.	Noted, will be complied in due course.
7.	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.	Noted, will be complied in due course.
8.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Noted, will be complied in due course.
9.	The project proponent shall made efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Being complied for existing plant. Noted, will be complied in due course.
<b>IV.</b>	<b>Noise monitoring and prevention:</b>	
1.	Noise level survey shall be carried as per the prescribed guidelines and report in this regards shall be submitted to Regional Officer of the Ministry as a part of six monthly compliance report.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
2.	The ambient noise levels should conform to the standards proscribed under E(P) A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.

<b>V.</b>	<b>Energy Conservation measures</b>	
1.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Noted, will be complied in due course.
2.	Practice hot charging of slabs and billets/blooms as far as possible.	Noted, will be complied in due course.
3.	Ensure installation of regenerative type burners on tall reheating furnaces.	Noted, will be complied in due course.
4.	Practice hot charging of slabs and billets/blooms as far as possible.	Noted, will be complied in due course.
5.	Ensure installation of regenerative type burners on all reheating furnaces.	Noted, will be complied in due course.
6.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Noted, will be complied in due course.
7.	Provide the project proponent of LEF lights in their offices and residential areas.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
<b>VI.</b>	<b>Waste management:</b>	
1.	Used refractories shall be recycled as far as possible.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
2.	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.	Noted, will be complied in due course.
3.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufactures for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Noted, will be complied in due course.
4.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Being complied for existing coal based Sponge Iron plant. Noted for compliance in expansion project.
<b>VII.</b>	<b>Green Belt :</b>	
1.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Being complied in regular basis.
2.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programed for reduction of the same including carbon sequestration including	Noted, will be complied in due course.



	plantation.	
<b>VIII.</b>	<b>Public hearing and Human health issues :</b>	
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being complied for existing plant, noted for compliance in expansion project.
2.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	In sponge iron unit PPE is provided. The high temperature work zone of expansion unit will be complied in due course.
3.	Provision shall be made for the housing of construction labour within the site which all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted for compliance in due course with start of the construction activities.
4.	Occupational health surveillance of the worker shall be done on a regular basis and records maintained as per the Factories Act.	Periodical health check-up are being carried and record are maintained on regular basis.
<b>IX.</b>	<b>Corporate Environment Responsibility</b>	
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Noted, will be complied in due course.
2.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper check and balances and to bring into focus any infringements / deviation/violation of the environmental / forest /wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildfire norms / conditions and /or shareholders/stake holders. The copy of the boards resolution in this regards shall be submitted to the MoEF & CC as a part of six monthly report.	The copy of the boards resolution is enclosed as <b>Annexure – 5.</b>
3.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Being complied.

4.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Noted, will be complied in due course.
5.	Self – environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted, will be complied in due course.
6.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the pants shall be implemented.	Being Complied on regular basis.

#### **X. MISCELLANEOUS:**

1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Advertised in two local newspapers of the District, Prabhat Khabar and Danik Bhaskar published on 18/08/2019. Environmental conditions and safeguards will be complied in due course. EC letter has been put on our web site <a href="http://www.mccipl.in">www.mccipl.in</a>
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2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copy of environment clearance letter has been sent to the followings:- 1) The Member Secretary, Jharkhand State Pollution Control Board, Ranchi, Jharkhand dated 12/08/2019. 2) The Regional officer, Jharkhand State Pollution Control Board, Hazaribagh, Jharkhand dated 12/08/2019. 3) The District Industries Centre, District - Ramgarh, Jharkhand dated 10/08/2019. 4) The Deputy Commissioner, District-Ramgarh, Jharkhand dated 12/08/2019. 5) President, Ramgarh Nagar Parishad, District-Ramgarh, Jharkhand dated 22/08/2019.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted, will be complied in due course.
4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location of disclosure to the public and put on the website of the company.	Being complied for existing plant, noted for compliance in expansion project. Display board has been displayed on main gate.
5.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted, being complied on regular basis.
6.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website	Being complied for existing plant, noted for compliance in expansion project. Environment Statement Report has been uploaded on the company web site

	of the company.	<a href="http://www.mccipl.in">www.mccipl.in</a> Environment Statement Report enclosed as <b>Annexure -6.</b>
7.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted, will be complied in due course.
8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted.
9.	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, will be complied in due course.
10.	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).	Agree with.
11.	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, will be complied in due course.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agree with.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agree with.
14.	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.	Agree with.
15.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air(Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 , Hazardous and Other wastes(Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other order passed by the Hon'ble Supreme Court of India/ High Courts and any other order passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to	Noted, will be complied in due course.

	the subject matter.	
16.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

Thanking you.

Yours faithfully

**For Maa Chhinnmastika Cement & Ispat Pvt Ltd.**

*Santosh Kumar Gupta*

**Director**



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh	Sampling Date	:	22.10.2021
			Period of Analysis	:	24.10.2021 - 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Stack Emission
Sample ID No.	:	59/EC/J/M/Oct./A/1	Report No.	:	59/EC/J/M/Oct./TR(A)/1/21-22

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Stack - 1 (Kiln No. 1 & 2 attached)
Shape of Stack	:	Circular
		Height of Stack (mtr.) (from G. L.) : 55.0
Materials of Construction	:	M.S.
		Stack I.D. at sampling point (mtr.) : 1.8
Capacity	:	100 TPD (each)
		Height of sampling port (mtr.) (from G.L.) : 33.0
Emission Due to	:	Reduction of Iron Oxide
Fuel Used	:	N.A.
		Permanent Platform & Ladder : Yes
Working Fuel Consumption	:	Nil
Pollution Control Device	:	E.S.P

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 230.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.52	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 60999.5	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 710.50	N.A.
6.	Concentration of NO <sub>x</sub>	mg/Nm <sup>3</sup>	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec. 11 (Vol. 11.07) : 2011	: 189.20	N.A.
7.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 7.4	N.A.
8.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
9.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 32.50	100.0

Remarks : Limit as per MoEF, New Delhi the 30<sup>th</sup> May, 2008.  
: N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891 / 25497490 ■ Fax : 033 25299141  
Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792889  
E-mail : info@envirocheck.org / envirocheck50@gmail.com ■ Website : www.envirocheck.org  
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Overseas : UAE ■ Qatar ■ Netherlands



# ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh	Sampling Date	:	22.10.2021
			Period of Analysis	:	24.10.2021 - 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Stack Emission
Sample ID No.	:	59/EC/J/M/Oct./A/II	Report No.	:	59/EC/J/M/Oct./TR(A)/II/21-22

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Stack - 2 (Kiln No. 3 attached)
Shape of Stack	:	Circular
		Height of Stack (mtr.) (from G. L.) : 55.0
Materials of Construction	:	M.S.
		Stack I.D. at sampling point (mtr.) : 1.8
Capacity	:	100 TPD
		Height of sampling port (mtr.) (from G.L.) : 33.0
Emission Due to	:	Reduction of Iron Oxide
Fuel Used	:	N.A.
		Permanent Platform & Ladder : Yes
Working Fuel Consumption	:	Nil
Pollution Control Device	:	E.S.P

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 220.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 758.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.60	N.A.
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 68071.51	N.A.
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 710.0	N.A.
6.	Concentration of NO <sub>x</sub>	mg/Nm <sup>3</sup>	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec. 11 (Vol. 11.07) : 2011	: 186.50	N.A.
7.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 7.2	N.A.
8.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
9.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 36.80	100.0

Remarks : Limit as per MoEF, New Delhi the 30<sup>th</sup> May, 2008.  
: N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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## TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh	Sampling Date	:	22.10.2021 - 23.10.2021
			Period of Analysis	:	24.10.2021 - 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Ambient Air
Sample ID No.	:	59/EC/J/M/Oct./A/III	Report No.	:	59/EC/J/M/Oct./TR(A)/III/21-22

### A] GENERAL INFORMATION

- Location of Sampling : Near Main Gate
- Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

### B] METEOROLOGICAL INFORMATION

- Average Temperature (°C) : 32.5
- Average Relative Humidity (%) : 48.0
- Barometric Pressure (mm of Hg) : 756.0
- Smell or Odour : No Remarkable Smell
- Weather Condition : Clear sky

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	48.20	60.0
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	92.50	100.0
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.25	80.0
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	32.50	80.0

Remarks : National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18<sup>th</sup> November, 2009.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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## TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh	Sampling Date	:	22.10.2021
			Period of Analysis	:	24.10.2021 - 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Work Zone
Sample ID No.	:	59/EC/J/M/Oct./A/IV	Report No.	:	59/EC/J/M/Oct./TR(A)/IV/21-22

### A] GENERAL INFORMATION

- Location of Sampling : Near Raw Material Handling Area
- Duration of Sampling : 08 hrs. (09:30 a.m. - 05:30 p.m.)

### B] METEOROLOGICAL INFORMATION

- Average Temperature (°C) : 48.5
- Average Relative Humidity (%) : 46.0
- Barometric Pressure (mm of Hg) : 756.0
- Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of SPM	µg/m <sup>3</sup>	NIOSH 0500 : 1994	490.0	5000.0

Remarks : Limit as per MoEF, New Delhi the 30<sup>th</sup> May, 2008.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
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## TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. – Hehal, P.O. – Barakakana, Ramgarh, Dist. – Ramgarh	Sampling Date	:	22.10.2021
			Period of Analysis	:	24.10.2021 – 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Work Zone
Sample ID No.	:	59/EC/J/M/Oct./A/IV	Report No.	:	59/EC/J/M/Oct./TR(A)/IV/21-22

### A] GENERAL INFORMATION

- Location of Sampling : Near Raw Material Handling Area
- Duration of Sampling : 08 hrs. (09:30 a.m. – 05:30 p.m.)

### B] METEOROLOGICAL INFORMATION

- Average Temperature (°C) : 48.0
- Average Relative Humidity (%) : 45.0
- Barometric Pressure (mm of Hg) : 756.0
- Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of RPM	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	162.50	N.A.
2.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	12.50	N.A.
3.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	32.80	N.A.

Remarks : N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



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## TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.	Type of Industry	:	Sponge Iron Plant
Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh	Sampling Date	:	22.10.2021
			Period of Analysis	:	24.10.2021 - 24.10.2021
			Date of Issue	:	26.10.2021
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No
			Type of Sample	:	Work Zone
Sample ID No.	:	59/EC/J/M/Oct./A/V	Report No.	:	59/EC/J/M/Oct./TR(A)/V/21-22

### A] GENERAL INFORMATION

- Location of Sampling : Near Product Handling Area
- Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

### B] METEOROLOGICAL INFORMATION

- Average Temperature (°C) : 32.5
- Average Relative Humidity (%) : 49.0
- Barometric Pressure (mm of Hg) : 756.0
- Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of SPM	µg/m <sup>3</sup>	NIOSH 0500 : 1994	492.0	5000.0

Remarks : Limit as per MoEF, New Delhi the 30<sup>th</sup> May, 2008.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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## TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.			Type of Industry	:	Sponge Iron Plant			
Address	:	Vill. – Hehal, P.O. – Barakakana, Ramgarh, Dist. – Ramgarh			Sampling Date	:	22.10.2021			
					Period of Analysis	:	24.10.2021 – 24.10.2021			
					Date of Issue	:	26.10.2021			
Sampling Plan & Procedure		:	ENV/SOP/01	Deviation from the Sampling Method and Plan		:	No	Type of Sample	:	Work Zone
Sample ID No.		:	59/EC/J/M/Oct./A/V		Report No.	:	59/EC/J/M/Oct./TR(A)/V/21-22			

### A] GENERAL INFORMATION

- Location of Sampling : Near Product Handling Area
- Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

### B] METEOROLOGICAL INFORMATION

- Average Temperature (°C) : 32.0
- Average Relative Humidity (%) : 48.0
- Barometric Pressure (mm of Hg) : 756.0
- Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of RPM	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	168.50	N.A.
2.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.20	N.A.
3.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	31.50	N.A.

Remarks : N.A. means Not Available.

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



# ENVIROCHECK

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



FORMAT NO. : ENV/FM/56

## TEST REPORT

1.	Name of the Industry	:	Maa Chhinnmastika Cement & Ispat Pvt. Ltd.
2.	Address	:	Vill. - Hehal, P.O. - Barakakana, Ramgarh, Dist. - Ramgarh
3.	Type of Industry	:	Sponge Iron Plant
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Noise
7.	Sample ID	:	ENV/52A/J/N
8.	Report ID	:	ENV/52A/J/TR(N)/21-22
9.	Date of Study	:	22.10.2021
10.	Reporting Date	:	26.10.2021
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet

### RESULT OF NOISE LEVEL STUDY

1. Location of Study		: Near Main Gate (Day Time)	
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
09:00 - 09:20	68.2	73.5	72.16
1. Location of Study		: Near Main Gate (Night Time)	
Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:00 - 10:20	55.6	59.1	57.25
3. Location of Study		: Near Kanta Room (Day Time)	
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:10 - 10:30	63.5	71.6	67.23
3. Location of Study		: Near Kanta Room (Night Time)	
Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:30 - 10:50	52.8	57.1	54.14
5. Location of Study		: Near Store Room (Day Time)	
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:10 - 10:30	60.1	71.5	67.21

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5. Location of Study : Near Store Room (Night Time)			
Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
11:10 - 11:30	52.4	56.7	53.11

** Mean of $L_{eq}$ - Equivalent to Sound Energy		
Limit in $L_{eq}$ dB(A)		
Category Area	Day Time dB(A)	Night Time dB(A)
A. Industrial Area	75	70
B. Commercial Area	65	55
C. Residential Area	55	45
D. Silence Zone	50	40

**Day Time is reckoned in between 6:00 A.M & 10:00 P.M		**Night Time is reckoned in between 10:00 P.M & 6:00 A.M	
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)			
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS			
Hours		Limit in dB(A)	
8		90	
4		93	
2		96	
1		99	
1/2		102	
1/4		105	
1/8		108	
1/16		111	
1/32		114	
(2 minutes or less)		-	
** The Noise Pollution (Regulation and Control Rules, 2000			
** S.O. 123 (E) Dated : 14 <sup>th</sup> February, 2000			

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

>End of Report<



# MAA CHHINNMASTIKA CEMENT AND ISPAT PRIVATE LIMITED

Registered Office & Works:

At- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh (Jharkhand)

CIN: U26941JH2004PTC010665

ramgarh\_jh@rediffmail.com

O/c

MCCIPL/626/2019-20

02/01/2020

To

**The Member Secretary,**

Jharkhand State Pollution Control Board,

T.A. Division Building (Ground Floor),

H.E.C., Dhurwa, Ranchi - 834004

Jharkhand

**Sub: Regarding installation, commissioning and data transmission to Jharkhand State Pollution Control Board URL server of Online Continuous Ambient Air Quality Monitoring Station (CAAQMS) for PM 10 parameter.**

**Ref: Your letter no B-19, Dated 28/02/2019.**

Respected Sir,

Kindly refer to above, we would like to inform your good self that online Continuous Ambient Air Quality Monitoring Station for PM 10 parameter are installed by M/s Environment SA India Pvt. Ltd., Navi Mumbai and it is connected online with Jharkhand State Pollution Control Board URL sever on 02/01/2020.

The location co-ordinate of CAAQMS for PM 10 parameter is given below:-

Sr. No.	CAAQMS location	CAAQMS location Co-ordinate
1	Near Store office area	Lat - 23°37'14 (N) Long - 85°28'40 (E)

This is for your information.

Thanking you.

Yours faithfully,

For **Maa Chhinnmastika Cement & Ispat Pvt. Ltd.**

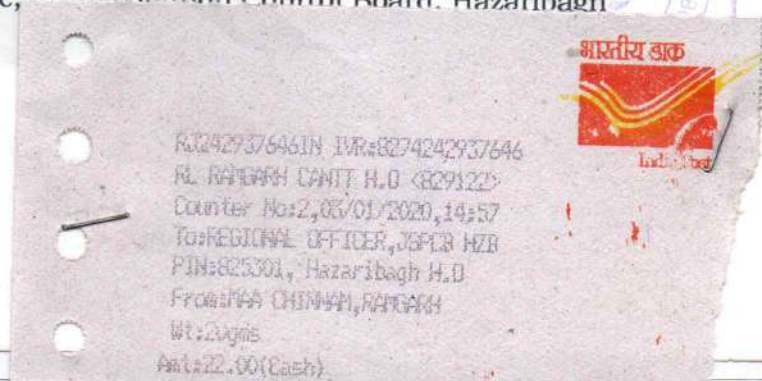
*[Signature]*  
02/01/2020

Authorized Signatory

*[Signature]*  
03/1/20

Cc to: - Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh (Jharkhand)

Encl.: - PM 10 analyser photograph.





Maa Chhinnmastika Cement & Ispat Pvt Ltd

**PM 10 Analyser**



*CC*  
02/01/2020

**Maa Chhinnmastika Cement & Ispat Pvt Ltd.****Stack emission Report (PM All values in mg/Nm3)**

Sl. No.	Month	Stack 1	Stack 2
		PM	PM
1	October,21	89	88
2	November,21	92	91
3	December,21	88	91
4	January,22	87	90
5	February,22	89	92
6	March,22	92	90

**Ambient Air Quality Monitoring**

Location	Parameters	Unit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	March-22
Nr. Main Gate	PM 10	$\mu\text{g}/\text{m}^3$	88	89	91	91	89	91
	PM 2.5		55	50	56	55	53	56
Nr. OHC	PM 10		87	88	93	87	91	89
	PM 2.5		58	51	54	58	53	53
Nr. North-west boundary wall	PM 10		91	88	89	89	91	91
	PM 2.5		52	58	53	56	53	53

**Online Ambient Air Quality Monitoring Data (PM10)**

Location	Unit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	March-22
Nr. Temple	$\mu\text{g}/\text{m}^3$	85	88	87	90	88	90





# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - ISO 9001:2015 & ISO 45001:2018



TC-4032

### Test Certificate

URL (Unique Lab Report) No.			T	C	4	0	3	2	2	1	1	0	0	0	0	0	6	0	F
Discipline	Chemical	Group	Water				Sample Description				Ground Water								
Report Release Date		11 <sup>th</sup> December 2021					Report ID				YBAEEL-211204-173157-GW01								
W. Order/ JSPCB App. No.		MCC IPL/59/2021-22					Work Order Date				02.12.2021								
Type of Industry (If any)		Sponge Iron Unit					Job code/ Ref. no.				YBAEEL/WA/L/C/Dec-21/05								
Report Issue to		M/s Maa Chhinmastika Cement and Ispat Pvt. Ltd. At. - Hehal, Post - Barkakana - 829103, Dist. Ramgarh, Jharkhand.																	
Sample Received Date		04/12/2021					Mode of sample collection				By Customer								
Sampling Protocol		N/A					Sample Code				211204-GW-X01								
Sampling Location		Bore well					Sampling Source				Ground Water								
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.- N/A					RH % - N/A				Temp. - N/A								
Sample receipt Date		04/12/2021		Analysis Started on			04/12/2021			Analysis completed on			11/12/2021						

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	7.49	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	418.0	--
4.	Turbidity	IS 3025 (P-10):2002	NTU	3.63	1.0	1-5
5.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23):2003	mg/l	3.68	196.0	200-600
6.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21):2009	mg/l	1.35	168.0	200-600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	220.0	500-2000
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
9.	Chloride (as Cl <sup>-</sup> )	IS 3025 (P-32):2003	mg/l	3.41	4.49	250-1000
10.	Fluoride (as F <sup>-</sup> )	APHA 4500 F-C 23 <sup>rd</sup> edition 2017	mg/l	12.22	1.4	1.0-1.5
11.	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	APHA 4500 NO <sub>3</sub> - (B) 23 <sup>rd</sup> edition 2017	mg/l	11.33	2.16	45-No relaxation
12.	Calcium (as Ca <sup>2+</sup> )	IS 3025 (P-40): 2003	mg/l	4.19	44.8	75-200
13.	Magnesium (as Mg <sup>2+</sup> )	APHA 3500 Mg B : 2017	mg/l	1.90	13.60	30-100
14.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	IS 3025 (P-24):2003	mg/l	5.42	6.40	200-400

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as #	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample doesn't comply with the acceptable limit of IS 10500:2012, but in the absence of alternative source sample comply with the permissible limit of IS 10500:2012

 Tested by Shivani Kumari Singh / Akash Lab Analyst		 Verified by Brij Nandan Kumar Section In-Charge		 Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory Technical Manager	
--------------------------------------------------------------	--	-----------------------------------------------------------	--	-----------------------------------------------------------------------------------------------------------------------------------------	--

Branch Office : - Jamshedpur Dhanbad Hazaribag

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand  
Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com; Web - https://ybaeel.in







# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
ISO 9001:2015 & ISO 45001:2018



TC-4032

### Test Certificate

URL (Unique Lab Report) No.			T	C	4	0	3	2	2	1	5	0	0	0	0	3	2	F	
Discipline	Chemical	Group	Water			Sample Description					Residue in Water								
Report Release Date		11 <sup>th</sup> December 2021					Report ID					YBAEEL-211204-173157-GW01							
W. Order/ JSPCB App. No.		MCCIPL/59/2021-22					Work Order Date					02.12.2021							
Type of Industry (If any)		Sponge Iron Unit					Job code/ Ref. no.					YBAEEL/WA/L/R/Dec-21/04							
Report Issue to		M/s Maa Chhinmastika Cement and Ispat Pvt. Ltd. At. - Hehal, Post - Barkakana - 829103, Dist. Ramgarh, Jharkhand.																	
Sample Received Date		04/12/2021					Mode of sample collection					By Customer							
Sampling Protocol		N/A					Sample Code					211204-GW-X01							
Sampling Location		Bore well					Sampling Source					Ground Water							
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity					3000 ml							
Meteorological Cond. of Field		W.C.- N/A					RH % - N/A					Temp. - N/A							
Sample receipt Date		04/12/2021		Analysis Started on			06/12/2021			Analysis completed on			11/12/2021						

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 <sup>rd</sup> edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01
2.	Copper (as Cu)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05
3.	Iron (as Fe)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	2.34	0.06	0.3
4.	Lead (as Pb)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01
5.	Zinc (as Zn)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	15.35	BDL (MDL 0.1)	5.0
6.	Cadmium (as Cd)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003
7.	Mercury (as Hg)	APHA 3112 B 23 <sup>rd</sup> edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001
8.	Chromium (as Cr)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05
9.	Nickel (as Ni)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Shivani Kumari Singh Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
--------------------------------------------------	-------------------------------------------------------	----------------------------------------------------------------------------------------------------------------	---------------------------------------------

Branch Office : - Jamshedpur Dhanbad Hazaribagh Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

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# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018



### Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date	11 <sup>th</sup> December 2021			Report ID	YBAEEL-211204-173157-GW01
W. Order/ JSPCB App. No.	MCCIPL/59/2021-22			Work Order Date	02.12.2021
Type of Industry (if any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/L/C/Dec-21/05 YBAEEL/WA/L/R/Dec-21/04
Report Issue to	M/s Maa Chhinmastika Cement and Ispat Pvt. Ltd. At. - Hehal, Post - Barkakana - 829103, Dist. Ramgarh, Jharkhand.				
Sample Received Date	04/12/2021		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	211204-GW-X01	
Sampling Location	Bore well		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	04/12/2021	Analysis Started on	04/12/2021	Analysis completed on	11/12/2021

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	--	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	--	Agree.	Agreeable
3.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	--	BDL (MDL 0.002)	0.03-0.2
4.	Cyanide(as CN <sup>-</sup> )	IS 3025 (P-27)	mg/l	--	BDL (MDL-1)	0.05- No relaxation
5.	Phosphate (asPO <sub>4</sub> <sup>3-</sup> )	IS 3025 (P-31):2003	mg/l	--	0.023	--

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample Comply with prescribed limits

Tested by Shivani Kumari Singh Lab Analyst	Verified by Brij Nandan Kumar Section In-Charge	Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory	Issued by Umesh Das Technical Manager
--------------------------------------------------	-------------------------------------------------------	----------------------------------------------------------------------------------------------------------------	---------------------------------------------

Branch Office :- Jamshedpur

Dhanbad

Hazaribag

Pakur

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# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - ISO 9001:2015 & ISO 45001:2018



### Test Certificate

URL (Unique Lab Report) No.		T	C	4	0	3	2	2	1	4	0	0	0	0	7	0	F	
Discipline	Biological	Group		Water			Sample Description					Ground Water						
Report Release Date		11 <sup>th</sup> December 2021					Report ID					YBAEEL-211204-173157-GW01						
W. Order/ JSPCB App. No.		MCC IPL/59/2021-22					Work Order Date					02.12.2021						
Type of Industry (If any)		Sponge Iron Unit					Job code/ Ref. no.					YBAEEL/WA/LM/Dec-21/05						
Report Issue to		M/s MaaChhinmastika Cement and Ispat Pvt. Ltd. At. - Hehal, Post - Barkakana - 829103, Dist. Ramgarh, Jharkhand.																
Sample Received Date		04/12/2021				Mode of sample collection					By Customer							
Sampling Protocol		N/A				Sample Code					211204-GW-X01							
Sampling Location		Bore well				Sampling Source					Ground Water							
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity					250 ml							
Meteorological Cond. of Field		W.C. - N/A				RH % - N/A					Temp. - N/A							
Sample receipt Date		04/12/2021		Analysis Started on			06/12/2021			Analysis completed on			08/12/2021					

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 <sup>rd</sup> Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 <sup>rd</sup> Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility.
	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	This report cannot be reproduced, except when in full, without the written permission of the CEO.
	The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise
	The liability of the laboratory is limited to the invoiced amount.
Remarks	All disputes are subjected to the Ranchi Jurisdiction.
	Sample Comply with prescribed limits

Moolhuri Sinha		Mukesh Kumar		11/12/21	
Tested by		Verified by		Issued by	
Madhuri Sinha		Mukesh Kumar		Umesh Das	
Lab Analyst		Section In-Charge		Technical Manager	

Branch Office : - Jamshedpur      Dhanbad      Hazaribag      Pakur

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# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - An ISO 9001:2015 & ISO 45001:2018



### Test Certificate

Report Release Date	11 <sup>th</sup> December 2021	Report ID	YBAEEL-211204-173157-GW01
W. Order/ JSPCB App. No.	MCCIPL/59/2021-22	Work Order Date	02.12.2021
Type of Industry (If any)	Sponge Iron Unit	Job code/ Ref. no.	YBAEEL/WA/L/C/Dec-21/05 YBAEEL/WA/L/R/Dec-21/04
Report Issue to	M/s MaaChhinmastika Cement and Ispat Pvt. Ltd. At. - Hehal, Post - Barkakana - 829103, Dist. Ramgarh, Jharkhand.		
Sampling Date	06/12/2021	Mode of sample collection	By YBAEEL Team
Meteorological Cond. of Field	W.C. - Clear	RH % - 63	Temp. - 27°C

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Location	Total Depth from the measuring point in meter	Static water level from measuring point in meter	Measuring point i.e. MP distance above ground level in meter	Water level below ground level
1.	Near Weight Bridge	30	6.7	0.76	5.94

#### \*\*\*\*\*End of Report\*\*\*\*\*

Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.

Verified by Brij Nandan Kumar Section in-Charge	Issued by Umesh Das Technical Manager
-------------------------------------------------------	---------------------------------------------

Branch Office :- Jamshedpur      Dhanbad      Hazaribag      Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in





# YUGANTAR BHARATI

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Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - ISO 9001:2015 & ISO 45001:2018



TC-4032

### Test Certificate

ULR (Unique Lab Report) No.				T	C	4	0	3	2	2	2	0	0	0	0	0	7	1	8	F
Discipline	Chemical	Group		Water		Sample Description				Ground Water										
Report Release Date		03 <sup>rd</sup> May, 2022				Report ID				YBAEEL-220423-182714-GW03										
W. Order/ JSPCB App. No.		MCC IPL/013/2022-23				Work Order Date				22.04.2022										
Type of Industry (If any)		Sponge Iron Unit				Job code/ Ref. no.				YBAEEL/WA/L/C/Apr-22/11										
Report Issue to		M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand.																		
Sample Received Date		28/04/2022				Mode of sample collection				By Customer										
Sampling Protocol		N/A				Sample Code				2204028-GW-B03										
Sampling Location		Borewell				Sampling Source				Ground Water										
Sample pkg. Condition		Sealed Pack in PP Bottle				Sample Quantity				3000 ml										
Meteorological Cond. of Field		W.C.- N/A				RH % - N/A				Temp. - N/A										
Sample receipt Date		28/04/2022		Analysis Started on		28/04/2022		Analysis completed on		03/05/2022										

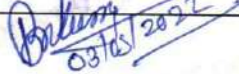

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pH	1.77	7.82	6.5-8.5
2.	Colour	IS 3025 (P-04):1983	Hazen	--	5	5-15
3.	Conductivity	IS 3025 (P-14):2013	µs/cm	1.90	416.0	--
4.	Turbidity	IS 3025 (P-10):2002	NTU	3.63	2.0	1-5
5.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23):2003	mg/l	3.68	194.0	200-600
6.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21):2009	mg/l	1.35	162.0	200-600
7.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	2.85	214.0	500-2000
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	30.64	BDL (MDL 0.07)	0.2-1
9.	Chloride (as Cl <sup>-</sup> )	IS 3025 (P-32):2003	mg/l	3.41	3.0	250-1000
10.	Fluoride (as F <sup>-</sup> )	APHA 4500 F-C 23 <sup>rd</sup> edition 2017	mg/l	12.22	1.1	1.0-1.5
11.	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	APHA 4500 NO <sub>3</sub> <sup>-</sup> (B) 23 <sup>rd</sup> edition 2017	mg/l	11.33	BDL (MDL 0.01)	45-No relaxation
12.	Calcium (as Ca <sup>2+</sup> )	IS 3025 (P-40): 2003	mg/l	4.19	48.0	75-200
13.	Magnesium (as Mg <sup>2+</sup> )	APHA 3500 Mg B : 2017	mg/l	1.90	17.5	30-100
14.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	IS 3025 (P-24):2003	mg/l	5.42	6.0	200-400

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

 Verified by Brij Nandan Kumar Section In-Charge		 Issued by Umesh Das Technical Manager	
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Authorized Signatory  
Chemical Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Branch Office :- Jamshedpur      Dhanbad      Hazaribag      Pakur

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# YUGANTAR BHARATI

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Accredited by: - Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - An ISO 9001:2015 & ISO 45001:2018

### Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Ground Water
Report Release Date	03 <sup>rd</sup> May, 2022			Report ID	YBAEEL-220423-182714-GW03
W. Order/ JSPCB App. No.	MCCIP/L/013/2022-23			Work Order Date	22.04.2022
Type of Industry(If any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/L/C/Apr-22/11
Report issue to	M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand				
Sample Received Date	28/04/2022		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	2204028-GW-B03	
Sampling Location	Borewell		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Odour	IS 3025 (P-05):2002	--	--	Agree.	Agreeable
2.	Taste	IS 3025 (P-07):2002	--	--	Agree.	Agreeable
3.	Cyanide(as CN <sup>-</sup> )	IS 3025 (P-27)	mg/l	--	BDL (MDL 1.0)	0.05-No relaxation
4.	Phosphate (as PO <sub>4</sub> <sup>3-</sup> )	IS 3025 (P-31):2003	mg/l	--	BDL (MDL 0.003)	--

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit,
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

Verified by Brij Nandan Kumar Section In-Charge	Issued by Umesh Das Technical Manager
-------------------------------------------------------	---------------------------------------------

Authorized Signatory  
Chemical Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Branch Office : - Jamshedpur      Dhanbad      Hazaribag      Pakur

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ISO 45001:2018



ISO 9001:2015





# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - ISO 9001:2015 & ISO 45001:2018



TC-4032

### Test Certificate

ULR (Unique Lab Report) No.			T	C	4	0	3	2	2	2	0	0	0	0	0	7	1	5	F
Discipline	Chemical	Group	Water			Sample Description				Residue & Contaminants in Water									
Report Release Date		03 <sup>rd</sup> May, 2022					Report ID				YBAEEL-220423-182714-GW03								
W. Order/ JSPCB App. No.		MCCIPL/013/2022-23					Work Order Date				22.04.2022								
Type of Industry/(If any)		Sponge Iron Unit					Job code/ Ref. no.				YBAEEL/WA/L/R/Apr-22/06								
Report Issue to		M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand.																	
Sample Received Date		28/04/2022					Mode of sample collection				By Customer								
Sampling Protocol		N/A					Sample Code				2204028-GW-B03								
Sampling Location		Borewell					Sampling Source				Ground Water								
Sample pkg. Condition		Sealed Pack in PP Bottle					Sample Quantity				3000 ml								
Meteorological Cond. of Field		W.C.- N/A					RH % - N/A				Temp. - N/A								
Sample receipt Date		28/04/2022		Analysis Started on			28/04/2022			Analysis completed on			03/05/2022						

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Arsenic (as As)	APHA 3114 B 23 <sup>rd</sup> edition 2017	mg/l	10.34	BDL (MDL 0.003)	0.01-No relaxation
2.	Copper (as Cu)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	11.11	BDL (MDL 0.01)	0.05-1.5
3.	Iron (as Fe)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	2.34	0.14	1.0-No relaxation
4.	Lead (as Pb)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	10.64	BDL (MDL 0.02)	0.01-No relaxation
5.	Zinc (as Zn)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	15.35	BDL (MDL 0.1)	5-15
6.	Cadmium (as Cd)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	5.0	BDL (MDL 0.02)	0.003-No relaxation
7.	Mercury (as Hg)	APHA 3112 B 23 <sup>rd</sup> edition 2017	mg/l	8.47	BDL (MDL 0.003)	0.001-No relaxation
8.	Chromium (as Cr)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	12.53	BDL (MDL 0.02)	0.05-No relaxation
9.	Nickel (as Ni)	APHA 3111 B 23 <sup>rd</sup> edition 2017	mg/l	13.72	BDL (MDL 0.02)	0.02-No relaxation

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit. BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory  
Chemical Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand  
Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in







# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - An ISO 9001:2015 & ISO 45001:2018

### Test Certificate

Discipline	Chemical	Group	Water	Sample Description	Residue & Contaminants in Water
Report Release Date	03 <sup>rd</sup> May, 2022			Report ID	YBAEEL-220423-182714-GW03
W. Order/ JSPCB App. No.	MCCIPL/013/2022-23			Work Order Date	22.04.2022
Type of Industry/(if any)	Sponge Iron Unit			Job code/ Ref. no.	YBAEEL/WA/L/R/Apr-22/06
Report Issue to	M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand.				
Sample Received Date	28/04/2022		Mode of sample collection	By Customer	
Sampling Protocol	N/A		Sample Code	2204028-GW-B03	
Sampling Location	Borewell		Sampling Source	Ground Water	
Sample pkg. Condition	Sealed Pack in PP Bottle		Sample Quantity	3000 ml	
Meteorological Cond. of Field	W.C.- N/A		RH % - N/A	Temp. - N/A	
Sample receipt Date	28/04/2022	Analysis Started on	28/04/2022	Analysis completed on	03/05/2022

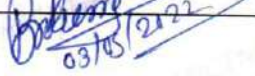

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	MU %	Results	Limits
1.	Aluminium (as Al)	IS 3025 (P-55):2003	mg/l	--	BDL (MDL 0.02)	0.03-0.2

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2021
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit.
Env. Condition of Lab	Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limits.

Tested By - Shivani Kumari Singh (Lab Analyst)

 03/05/2022	 31/05/22
Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory  
Chemical Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Branch Office :- Jamshedpur      Dhanbad      Hazaribag      Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand  
Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 45001:2018



ISO 9001:2015





# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - NABL accredited testing laboratory vide certificate Number TC-4032  
Jharkhand State Pollution Control Board (JSPCB)  
Certified by: - ISO 9001:2015 & ISO 45001:2018



TC-4032

### Test Certificate

ULR (Unique Lab Report) No.		T C 4 0 3 2 2 2 0 0 0 0 0 7 1 2 F																	
Discipline	Biological	Group	Water		Sample Description	Ground Water													
Report Release Date	03 <sup>rd</sup> May, 2022				Report ID	YBAEEL-220423-182714-GW03													
W. Order/ JSPCB App. No.	MCCIP/013/2022-23				Work Order Date	22.04.2022													
Type of Industry (If any)	Sponge Iron Unit				Job code/ Ref. no.	YBAEEL/WA/L/M/Apr-22/06													
Report Issue to	M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand.																		
Sample Received Date	28/04/2022				Mode of sample collection	By Customer													
Sampling Protocol	N/A				Sample Code	2204028-GW-B03													
Sampling Location	Bore well				Sampling Source	Ground Water													
Sample pkg. Condition	Sealed Pack in PP Bottle				Sample Quantity	250ml													
Meteorological Cond. of Field	W.C.- N/A				RH % - N/A		Temp. - N/A												
Sample receipt Date	28/04/2022		Analysis Started on		30/04/2022		Analysis completed on		02/05/2022										

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Parameter	Test Method	Units	Results	Limits
1.	Total coliform	APHA 9221B 23 <sup>rd</sup> Edition 2017	MPN/100 ml	BDL (MDL 1.1)	Shall not to be Detectable in any 100 ml sample
2.	Fecal coliform	APHA 9221E 23 <sup>rd</sup> Edition 2017	MPN/100 ml	BDL (MDL 1.1)	

#### \*\*\*\*\*End of Report\*\*\*\*\*

Limit is specified as	IS 10500: 2012
Abbreviation	MDL : Minimum detection limit, BDL : Below detection limit, <1.8 / < 1.1 MPN/100 ml denotes that the presence probability of bacteria is absent in the tested sample.
Env. Condition of Lab	Laboratory is maintaining Temperature 27 ± 2°C and Relative Humidity 65 ± 5% in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 7 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	Sample complies with prescribed limit.

Tested By - Madhuri Sinha (Lab Analyst)

Verified by	Issued by
Mukesh Kumar	Umesh Das
Section In-Charge	Technical Manager

Authorized Signatory  
Microbiological Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Branch Office : - Jamshedpur Dhanbad Hazaribag Pakur

Main Office : Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand  
Ph : 09835-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in







# YUGANTAR BHARATI

## ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by: - Jharkhand State Pollution Control Board (JSPCB)

Certified by: - An ISO 9001:2015 & ISO 45001:2018

### Test Certificate

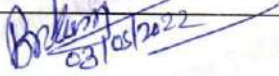

Report Release Date	03 <sup>rd</sup> May, 2022	Report ID	YBAEEL-220423-182714-WL03
W. Order/ JSPCB App. No.	MCCIP/L/013/2022-23	Work Order Date	22.04.2022
Type of Industry (If any)	Sponge Iron Unit	Job code/ Ref. no.	YBAEEL/WA/L/C/Apr-22/11
Report Issue to	M/s Maa Chhinmastika Cements and Ispat Pvt. Ltd. At.- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh, Jharkhand.		
Sampling Date	30/04/2022	Mode of sample collection	By YBAEEL Team
Meteorological Cond. of Field	W.C.- Clear	RH % - 45	Temp.- 35

#### \*\*\*\*\*Test Results\*\*\*\*\*

Sl	Location	Ground Water Level (mbgl)
1.	Near Weight Bridge	7.5

#### \*\*\*\*\*End of Report\*\*\*\*\*

Abbreviation	MDL : Minimum detection limit, BDJL : Below detection limit MBGL : Meter below ground level
Env. Condition of Lab	Laboratory is maintaining, Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing areas as per IS 196:1966 (C).
Specific contractual notes	All values are expressed in as unit and results listed refer only to the tested sample and applicable parameter in Lab's Permanent Facility This report, in full or in part, shall not be used for advertising or as evidence in any court of law This report cannot be reproduced, except when in full, without the written permission of the CEO. The samples collected shall be destroyed after 15 days from the date of issue of the certificate unless specified otherwise The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.
Remarks	

 03/05/2022	 03/05/22
Verified by	Issued by
Brij Nandan Kumar	Umesh Das
Section in-Charge	Technical Manager

Authorized Signatory  
Chemical Section  
Yugantar Bharati Analytical &  
Environmental Engineering Laboratory

Technical Manager  
Yugantar Bharati Analytical &  
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Branch Office :- Jamshedpur      Dhanbad      Hazaribag      Pakur

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Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



ISO 45001:2018



ISO 9001:2015



# MAA CHHINNMASTIKA CEMENT AND ISPAT PRIVATE LIMITED

*Registered Office & Works:*

At - Hahal, Post - Barkakana - 829103, Dist.- Ramgarh (Jharkhand)  
ramgarh\_jh@rediffmail.com

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## EXTRACT OF THE MINUTE OF THE MEETING OF BOARD OF DIRECTORS OF M/S MAA CHHINNMASTIKA CEMENT & ISPAT PRIVATE LIMITED HELD ON THURSDAY 15<sup>th</sup> DAY OF FEBRUARY 2018 AT 02:30 P.M AT REGISTERED OFFICE OF THE COMPANY

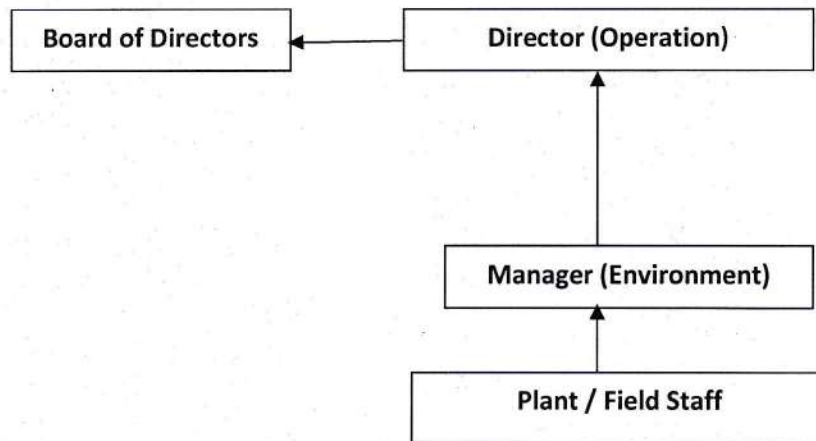
The Chairman informed the board a healthy and sustainable environment is important to our citizen, our economy & our future. Based on the principle of managing environment resources for the benefit & enjoyment of both current & future generation, the board decided to frame and adopt an Environmental Policy. After due deliberation following resolutions was passed in this regard:-

**"RESOLVED THAT"** the board hereby adopts the Environmental Policy (as discussed below). The mission of MCCIPL is to produce Steel & Steel product in an environment friendly manner and is strive to;

- Integrate sound environmental management practices in all our activities
- Conduct our operations in environmentally responsible manner to minimize pollution and its' impact on environment
- Comply with applicable legal and other requirements related to environmental aspects of our operations and strive to go beyond. The environment management cell will be headed by EHS Manager, a well qualified and experienced environment engineer.
- MCCIPL shall ensure that deviations from this policy and cases of violations/non-compliances of Environment or Forest Laws, if any, shall be reported to the Board of Directors through EHS Manager and shall identify designate responsible person for ensuring compliance with the Environmental Laws and Regulations.
- Conserve energy, and other natural resources, minimize waste generation and promote recovery, recycle and reuse.
- Increase greenery in and around the plant.
- Ensure continual improvement in environmental performance by setting & reviewing objectives & targets.
- Encourage environmental awareness amongst employees working for and on behalf of MCCIPL and the general populace around the plant.

#### **Hierarchical systems - environmental issues and for ensuring compliance**

Company EHS cell is responsible for the compliance of the environmental conditions. The Environmental Manager will functionally report to Director (Operation), and the environmental matters are placed to the Board of Directors through Director (Operation).



**"RESOLVED FURTHER THAT** Mr. Parashuram Singh of the Company be and is hereby severally authorized to make, sign and execute on behalf of the Company such all necessary document required in framing & adoption of "Environment Policy."

**"RESOLVED FURTHER THAT** the Board be and is hereby recommended to adopt Environment Policy, as the draft placed before the board, initiated by the chairman for the sake of identification".

Date: 15/02/2018

  
**ALOK RUNGTA**  
(Director)  
DIN: 01596258

# MAA CHHINNMASTIKA CEMENT AND ISPAT PRIVATE LIMITED

Registered Office & Works:

At- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh (Jharkhand)

CIN:U26941JH2004PTC010665

ramgarh\_jh@rediffmail.com

cementispat@rediffmail.com

ramgarh\_jh@rediffmail.com

MCCIPL/041/2021-22

21/09/2021

To,  
The Member Secretary,  
Jharkhand State Pollution Control Board,  
HEC Campus, TA Division Building,  
Durwa, Ranchi - 834 004.  
Jharkhand

**Sub: Submission of Environmental Statement Report from the period of April 2020 to March 2021 for our Coal based Sponge Iron.**

**Ref.:- CTO Ref. No. – JSPCB/HO/RNC/CTO-2204067/2018/958, Dated 06/06/18.**

Dear Sir,

With reference to the above, we are enclosing herewith the Environmental Statement Report for the period from April 2020 to March 2021 of our Sponge Iron.

Please find above in order and do the needful.

Thanking you,

Yours faithfully,

For MAA CHHINNMASTIKA CEMENT & ISPAT PVT.LTD.

*Manoj Kumar*  
21/09/2021  
Manoj Kumar  
Manager (Environment)

Encl: As above.

CC to: - The Regional Officer, Regional Office, State Pollution Control Board, Hazaribagh (Jharkhand)

E3831594751IN IVR:6974831594751  
SP RAMGARH S.O (RAMGARH) <829122>  
Counter No:1,23/09/2021,11:44



To:THE REGIONAL OFFICER,HAZARIBAGH  
PIN:825301, Hazaribagh HO  
From:MAA CHHINNMASTIKA CEMENT & ISPAT PVT.LTD.  
Wt:20gms  
Amt:41.30(Cash)Tax:6.30  
<Track on www.indiapost.gov.in>  
<Dial 18002666868> <Wear Masks, Stay Safe>





**ENVIRONMENTAL STATEMENT**  
**Maa Chhinnmastika Cement & Ispat Pvt. Ltd.**  
**Period from: April 2020 to March 2021**

**FORM – V**  
**PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	Maa Chhinnmastika Cement & Ispat Pvt. Ltd. Occupier name – Santosh Kumar Gupta Village – Hehal, P.O – Barkakana, Dist. – Ramgarh, Jharkhand – 829103
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	Sponge Iron – 300 TPD
4.	Year of Establishment	02.06.2004
5.	Date of the last Environmental Statement Submitted	18/09/2020

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

**(I) Water consumption in m3/day:**

Process & Cooling	:	159.32 m3/day
Domestic	:	4.93 m3/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
Sponge Iron	1.0017	0.9215

**(II) RAW MATERIAL CONSUMPTION:**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output	
		During Current Financial Year (2019-20)	During Current Financial Year (2020-21)
Iron ore/Iron Ore Pellets	Sponge Iron	2.456	2.108
Coal		1.048	1.242
Dolomite		0.039	0.089

**(III) POWER CONSUMPTION (KWH/MT of Sponge Iron):**

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
51.576	61.631

(IV) **TOTAL PRODUCTION (MT):**

During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
83,778.00	63,108.00

**PART – C**

**DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT**

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Volume)	Percentage of variation from prescribed standard with reasons
(a) Water	<ul style="list-style-type: none"><li>No industrial effluent is generated. In compliance to Zero Liquid Discharge (ZLD), the web camera and flow meter are installed with online monitoring facilities.</li><li>The waste water generated from the office toilet and mess has been discharged via septic tank and soak pits.</li></ul>		
(b) Air	<ul style="list-style-type: none"><li>Online monitoring of PM &amp; SO<sub>2</sub> are installed with web connectivity with CPCB &amp; SPCB.</li><li>Continuous Ambient Air Quality Monitoring System (CAAQMS) PM 10 parameter is installed.</li></ul>		

**PART – D**

**HAZARDOUS WASTE**

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2010)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2019-20)	During Current Financial Year (2020-21)
a) From Process	Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.  Hazardous waste authorization issued vide letter no JSPCB / HO / RNC / HWM-1692559 /2018/25 dated 14/06/2018 valid up to 30/09/2022.	Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.  Hazardous waste authorization issued vide letter no JSPCB / HO / RNC / HWM-1692559/ 2018/25 dated 14/06/2018 valid up to 30/09/2022.
(b) From Pollution Control Facilities	Not applicable	Not applicable





**PART – E**  
**SOLID WASTE**

		Total Quantity (MT)	
		During Previous Financial Year (2019-20)	During Current Financial Year (2020-21)
(a)	From Process		
	1) Dolachar (Coal Chai)	56771.00	43603.080
(b)	From Pollution Control Facility	Nil	Nil
(c)	Quantity recycled or re- utilized within the unit		
	1) Sold	50779.74	23116.61
	2) Dispose	Nil	Nil

**PART – F**

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

- Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.
- Coal Char (Chhai), the solid waste generated in process are being sold at present, the earlier stock of coal char are also being sold as per demand.

**PART – G**

**Impact Of The Pollution Control Measures on Conservation of Natural Resources And Consequently On The Cost Of Production**

- Unit has 3X100 TPD Sponge Iron kilns, installed three numbers of ESP attached to each kiln stack to control stack emission.
- Unit has installed seven numbers of bag filters at various material transfer points to control fugitive emissions.
- Unit has installed one hundred five numbers of water sprinklers at various places within plant premises to control dust emission / fugitive emission from haul roads.
- All conveyor belts are covered with M.S.Plates.
- All raw materials are kept in covered shed.

**PART – H**

**Additional Measures/Investments Proposal for Environment Protection Including Abatement of Pollution**

- Plantation are done surrounding the boundary wall area and road side within campus. We are also doing support for plantation in nearby village during rainy season every year. New plantations are also made every year in the plant during rainy season.





- EC issued vide letter no F.No.J-11011/215/2016-IA.II(I)dated – 07<sup>th</sup> August,2019.
- CTE issued vide letter no. JSPCB/HO/RNC/CTE-6089357/2020/366 dt 24.09.2020 from JSPCB. Project work is going on.

### **PART – I**

#### **Any other particulates for improving the quality of environment**

- Unit has installed two numbers of online Continuous Emission Monitoring System (CEMS) for measurement of particulate matter (PM) & SO<sub>2</sub>.
- The web camera & flow meter has installed with online monitoring facilities.
- Continuous Ambient Air Quality Monitoring System (CAAQMS) PM 10 parameter is installed with online monitoring facilities.
- Data of CEMS, Camera & flow meter are continuously updated on CPCB & SPCB server.
- 6 numbers of CCTV cameras has been installed within plant premises to monitor the operationalization status of Air pollution Control Devices.

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