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# MAA CHHINMASTIKA CEMENT AND ISPAT PRIVATE LIMITED

**Registered Office & Works:**  
**At- Hehal, Post - Barkakana - 829103, Dist.- Ramgarh (Jharkhand)**  
**CIN:U26941JH2004PTC010665**  
**ramgarh\_jh@rediffmail.com**

MCCIPL/076/2023-24

14/09/2023

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 2022 to March 2023.**

Dear Sir,

With reference to the above, we are enclosing herewith the Environmental Statement Report for the period from April 2022 to March 2023 of our Sponge Iron.

Please find above in order and do the needful.

Thanking you,

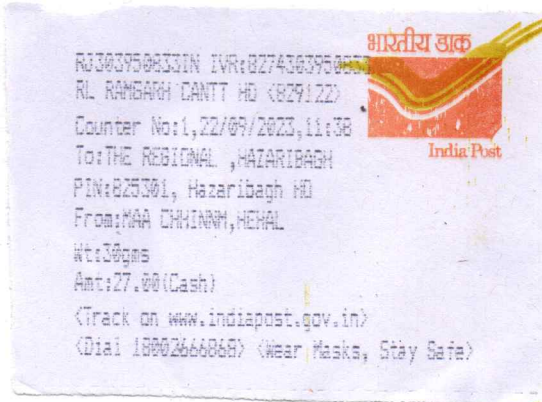
Yours faithfully,  
For MAA CHHINMASTIKA CEMENT & ISPAT PVT.LTD.



Manoj Kumar  
Manager (Environment)

Encl: As above.

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



**ENVIRONMENTAL STATEMENT**  
**Maa Chhinmastika Cement & Ispat Pvt. Ltd.**  
**Period from: April 2022 to March 2023**

**FORM – V**

**PART – A**

1.	Name and address of the Owner / Occupier of the Industry operation or process	Maa Chhinmastika 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 Steel Melting Shop – 72000 TPA Rolling Mill – 67500 TPA WHRB – 6 MW AFBC – 9 MW
4.	Year of Establishment	2004 (DRI), 2023 (SMS with Rolling Mill & CPP)
5.	Date of the last Environmental Statement Submitted	27/06/2022

**PART – B**

**WATER AND RAW MATERIAL CONSUMPTION**

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

Process & Cooling	:	166.26 m3/day (Sponge Iron) 7.25 m3/day (SMS & Rolling Mill) 7.66 m3/day (CPP)
Domestic	:	5.14 m3/day (Sponge Iron) 0.22 m3/day (SMS & Rolling Mill) 0.24 m3/day (CPP)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
Sponge Iron	0.9215	0.9215
SMS & Rolling Mill	-	0.9241
CPP	-	1.0185

**(II) RAW MATERIAL CONSUMPTION:**

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output	
		During Current Financial Year (2021-22)	During Current Financial Year (2022-23)
Iron ore/Iron Ore Pellets	Sponge Iron	2.446	2.303
Coal		1.272	1.133
Dolomite		0.034	0.023
MS scrap	SMS & Rolling Mill	-	0.292
Pig Iron		-	0.037
Sponge Iron (I/F)		-	0.829

**(III) POWER CONSUMPTION (KWH/MT):**

During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
49.147 KWH/MT of Sponge Iron	129.276 KWH/MT of Sponge Iron
-	993.000 KWH/MT of MS Billet & Roll. Mill

**(IV) TOTAL PRODUCTION:**

Product Name	During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
Sponge Iron (MT)	69,283.98	65851.100
SMS & Rolling Mill (MT)	-	2872.320
Power (KWH)	-	2746.33

**PART - C**

**DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT**

<b>Pollutants</b>	<b>Quantity of Pollutants Discharged (Mass/Day)</b>	<b>Concentration of Pollutants in Discharge (Mass/Volume)</b>	<b>Percentage of variation from prescribed standard with reasons</b>
(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)

<b>Hazardous Waste</b>	<b>Total Quantity (Ltrs.)</b>	
	<b>During Current Financial Year (2021-22)</b>	<b>During Current Financial Year (2022-23)</b>
a) From Process	<p>Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.</p> <p>Hazardous waste authorization issued vide letter no JSPCB / HO / RNC / HWM-1692559 /2018/25 dated 14/06/2018 valid up to 30/09/2022.</p>	<p>Used gear oil and lubricant are stored in drum and used in different Chain Drive within plant campus.</p> <p>Hazardous waste authorization issued vide letter no JSPCB / HO / RNC / HWM-13306410/ 2023/21 dated 09/04/2023 valid up to 20/08/2027.</p>
(b) From Pollution Control Facilities	Not applicable	Not applicable

**PART – E**

**SOLID WASTE**

		Total Quantity (MT)	
		During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
(a)	From Process		
	1) Dolachar (Coal Chai)	53300.000	44892.640
	2) Other waste	92760.39	33227.660
(b)	From Pollution Control Facility	Nil	Nil
(c)	Quantity recycled or re- utilized within the unit		
	1) Sold	51449.22	52583.900
	2) Dispose	93048.76	35672.690

**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.
- CTO issued vide letter no. JSPCB/HO/RNC/CTO-15354540/2023/501 Dt. 15/03/2023

## 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, PM 2.5, SO<sub>2</sub> & NO<sub>x</sub> parameters are installed with online monitoring facilities.
  - Unit has installed Telemetry System at One no. of Bore well and piezometer.
  - 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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