

JHARKHAND ISPAT PRIVATE LIMITED

ADMN. OFFICE : Near P.N. Bank, Main Road, Ramgarh Cantt.
Dist. - Ramgarh (Jharkhand) - 829 122
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IS : 2830



WORKS :

Vill. & P.O. - Hesla, Argada
Dist. - Ramgarh (Jharkhand)
PIN. - 829 101

Ref. No.....
JIPL/042/2022-23

Date.....
22/06/2022

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 2021 to March 2022 for our Coal based Sponge Iron & M.S. Billet Plant.

Dear Sir,

With reference to the above subject, we are enclosing herewith the Environmental Statement Report for the period from April 2021 to March 2022 of our Sponge Iron & M.S. Billet plant.

Please find above in order and do the needful.

Thanking you,

Yours faithfully,
For JHARKHAND ISPAT PVT.LTD.

Manoj Kumar
Manoj Kumar
Manager (Environment)

Encl: As above.

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



ENVIRONMENTAL STATEMENT
Jharkhand Ispat Pvt. Ltd.
Period from: April 2021 to March 2022
FORM – V
PART – A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Jharkhand Ispat Pvt. Ltd. Occupier name – Sri Ram Chandra Rungta Village & PO – Hesla, Via - Argada Dist. – Ramgarh, Jharkhand – 829101
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	Sponge Iron – 4 X 100 TPD M.S. Billet – 240 TPD
4.	Year of Establishment	2003/2006
5.	Date of the last Environmental Statement Submitted	22/09/2021

PART – B

WATER AND RAW MATERIAL CONSUMPTION

(I) Water consumption in m3/day:

Process & Cooling	:	170.84 m3/day (Sponge Iron)
		127.77 m3/day (M.S. Billet)
Domestic	:	5.28 m3/day (Sponge Iron)
		3.95 m3/day (M.S. Billet)

Name of Product	Process Water Consumption per Unit of Product Output	
	During Previous Financial Year (2020-21)	During Current Financial Year (2021-22)
Sponge Iron	0.951	0.951
MS Billet	0.951	0.951

(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output	
		During Current Financial Year (2020-21)	During Current Financial Year (2021-22)
Coal	Sponge Iron	1.892	1.520
Dolomite		0.052	0.037
Iron Ore/Iron Ore Pellets		1.954	1.931
MS scrap	MS Billet	0.112	0.304
Pig Iron		0.196	0.007
Sponge Iron (I/F)		0.806	0.808

(III) POWER CONSUMPTION (KWH/MT):

During Previous Financial Year (2020-21)	During Current Financial Year (2021-22)
58.475 KWH/MT of Sponge Iron	41.737 KWH/MT of Sponge Iron
1265.416 KWH/MT of MS Billet	1453.905 KWH/MT of MS Billet

(IV) TOTAL PRODUCTION (MT):

Product Name	During Previous Financial Year (2020-21)	During Current Financial Year (2021-22)
Sponge Iron	66,017.00	65,598.00
MS Billet	69,149.50	49,060.00

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"> No industrial effluent is generated. In compliance to Zero Liquid Discharge (ZLD), the web camera and flow meter are installed with online monitoring facilities. The waste water generated from the office toilet and messes are discharged via septic tank and soaks pits. 		
(b) Air	<ul style="list-style-type: none"> Online continuous emission monitoring system of PM & SO₂ are installed with web connectivity with CPCB & SPCB. Unit has installed Dust handling system with 100 m³ capacity silo to control of fugitive emission from bag filter & ESP discharge points. Continuous Ambient Air Quality Monitoring System (CAAQMS) PM 10 parameter is installed. 		

PART – D

HAZARDOUS WASTE

(As specified under Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity (Ltrs.)	
	During Current Financial Year (2020-21)	During Current Financial Year (2021-22)
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 – 1692859 /2019/17, dated 29/06/2019, valid upto 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 – 1692859/2019/17, dated 29/06/2019, valid upto 30.09.2022.
(b) From Pollution Control Facilities	Not applicable	Not applicable

PART – E

SOLID WASTE

		Total Quantity (MT)	
		During Previous Financial Year (2020-21)	During Current Financial Year (2021-22)
(a)	From Process		
	1) Dolachar (Coal Chai)	53,775.00	8330.00
	2) Other waste	16838.39	93039.23
(b)	From Pollution Control Facility	Nil	Nil
(c)	Quantity recycled or re- utilized within the unit		
	1) Sold (Coal Chai)	46574.21	6337.780
	2) Dispose	16838.39	93039.23

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) and other wastes, 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 4X100 TPD Sponge iron kilns, installed four numbers of ESP attached to each Rotary kiln stack to control stack emission.
- Unit has installed eight numbers of bag filters at various material transfer points of Sponge Iron plant to control fugitive emissions. One fume extraction system (Ventury Scrubber) is installed with Induction Furnace plant.
- Unit has installed Dust/Ash handling system with 100 m3 capacity silo to control of fugitive emission from bag filter & ESP discharge points.
- Unit has installed eighty 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 made at plant site besides the boundary. We are also doing support for plantation in nearby villages during rainy season every year. New plantations are also made every year in the plant during rainy season.
- The Captive Power Plant (AFBC & WHRB) and its installation will be taken up after grant of EC & CTE.

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) & SO₂.
- 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.
- Unit has installed Dust/Ash handling system with 100 m3 capacity silo to control of fugitive emission from bag filter & ESP discharge points.