SBPIL/TILDA/ENV/24-25/ 1115

Date: 26.09.2024

To,

The Member Secretary,
Chhattisgarh Environment Conservation Board,
Paryawas Bhawan, North Block, Sector-19
Atal Nagar, Raipur (C.G.)

Sub: Submission of Environment Statement (Form-V) for the financial year 2023-24, (ending on 31/03/2024).

Dear Sir,

With reference to above cited subject, we are submitting herewith Environment Statement (Form-V) for our M/s Shri Bajrang Power & Ispat Ltd., at village- Tandwa, Tehsil-Tilda, Raipur (C.G.), as per provision of Environment (Protection) amendment Rule 1993 for the year ending 31st March' 2024 in prescribed format, as required by you.

Please acknowledge the receipt of the same.

Thanking You.

Yours Faithfully,

For, M/s Shri Bajrang Power & Ispat Ltd. Tilda

G R Telang
(DGM – EHS)

Encl: As above.

CC: CC: The Regional Officer, Chhattisgarh Environment Conservation Board, New office Building, Ring Road No. 2 Tatibandh Raipur (C.G.)

The Environment (Protection) Rules, 1986
(FORM – V)
(See rule 14)

Environmental Statement for the financial year ending the 31st March'2024

PART – A

(i) Name and address of the occupier of the industry operation or process. : **Pradeep Tiwari**
Shri Bajrang Power & Ispat Ltd.
Vill.: Tandwa, Tehsil- Tilda,
Raipur (C.G.)

(ii) Industry category Primary – (STC code): : **Secondary**
Secondary – (SIC Code)

(iii) **Production Capacity – Units** : **Capacity**

Sponge Iron Plant	- 6, 00,000 TPA
Captive Power Plant (WHRB+AFBC)	- 48 MW + 9 MW
Palletization Plant	- 14,00,000 TPA
I/O Beneficiation Plant	- 20,00,000 TPA
Fly Ash Brick Plant	- 01 Crore Nos/Annum
Ferro Alloys Plant with AOD	- 45,000 Metric tonnes per annum
ESW / Pipe Plant	- 2, 50,000 Metric tonnes per annum
Oxygen Plant (2x250 Nm^3/hr)	- 16 TPD
Producer Gas Plant	- 17000 Nm^3/hr & 5500 Nm^3/hr
Galvanized Pipes/ Hollow Section	- 1,00,000 Metric tonnes per annum
Railway Siding Cum Dispatch Facilities	- 12,000 TPD

(iv) **Year of Establishment**

Kiln – I	- 26.03.2013
16 MW CPP (WHRB)	- 31.03.2013
Palletization	- 26.03.2013
I/O Beneficiation	- 01.11.2014
Fly Ash Brick Plant	- 11.01.2017
Producer Gas Plant	- 11.01.2017
Oxygen Plant (2x250 Nm^3/hr)	- 15.03.2021
Kiln – II	- 25.06.2019
16 MW CPP (WHRB)	- 25.06.2019
09 MW CPP (AFBC)	- 25.06.2019
Ferro Alloys Plant	- 18.01.2024
ESW / Pipe Plant	- 13.02.2020
AOD Plant	- 28.06.2021
Kiln- III	- 11.10.2023

(v) Date of the last environmental Statement submitted. - 24.09.2023

PART – B

Water and Raw Material Consumption

(1) Water consumption m^3/d:

Process	: 1285 KLD
Cooling	: 2703 KLD
Domestic	: 81 KLD

Name of Products:	During the previous Financial year 2022-23	During the Current Financial Year 2023-24
(1) Power Plant	96 KLD	96 KLD
(2) I/O Beneficiation	1189 KLD	1189 KLD

(2) Raw Material Consumption

Name of Raw Material		During the previous Financial Year 2022-23	During the Current Financial Year 2023-24
Sponge Iron Division			
Iron Ore	-	0.0 MT MT	9844.9 MT
Coal	-	343278.24 MT	406342 MT
Dolomite	-	14407.50 MT	17466.9 MT
Pellets	-	538727 MT	685375.9 MT
Pellet Plant			
Iron Ore Fines	-	25643.77 MT	25535.74 MT
Iron Ore Concentrate	-	1126436. MT	120890.81 MT
Iron Ore Beneficiation	-	NIL	1220395.01 MT
Bentonite	-	6577.85 MT	6826.52 MT
Coal	-	34832.58 MT	54595.16 MT
I.F.O & F.O	-	12726.08 KL	6910.73 KL
Iron Ore Beneficiation			
Iron Ore Fines	-	1380404.63 MT	595356.00 MT
Iron Ore Fines tailing	-	141081.00 MT	927962.00 MT
AFBC (Coal Based Captive Power Plant)			
Coal	-	314.0 MT	0.00 MT
Dolochar	-	387.0 MT	0.00 MT
Ferro Alloys Plant			
Manganese Ore	-	58860.75 MT	64980 MT
Coal	-	6695.20 MT	8732 MT
Pearl Coke	-	4445.01 MT	9840 MT
Lam Coke	-	4242.63 MT	194 MT
Dolomite	-	305.43 MT	1292 MT
Quartz	-	242.8 MT	2590 MT
EWR CS/MS Pipe Plant			
HR COIL	-	77328.56 MT	89704.437 MT
AOD Convertor Plant			
Flour spar	-	NIL	NIL
Calcined Lime	-	NIL	1181.01 MT
Ferro Silico Manganese	-	692.36 MT	705.056 MT
Calcined Dolomite (Convertor)	-	1025.4 MT	1184.365 MT
Ferro Silicon (FA-RM)	-	150.24 MT	180.282 MT
Ferro Manganese	-	NIL	NIL
Ferro Silico Manganese-MC	-	NIL	NIL
Ferro Silico Manganese Captive	-	NIL	NIL
Ferro Manganese HC-Captive	-	17173.25 MT	19809.06 MT
Ferro Manganese MC- Captive	-	NIL	1734.85 MT
2607 MT		NIL	-
Rice Husk (Convertor)	-	3.0 MT	NIL
Furnace Oil (Convertor)	-	476 MT	355.15 MT

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART – C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

(1) Pollutants	Quantity of pollutants Discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Industrial and Domestic discharge water after treatment in ETP & STP are being used for dust suppression and plantation purpose.		
(b) Air	It meets the required standard as prescribed by the board.		

PART – D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Waster	Total Quantity (Kg)	
	During the previous Financial year 2022-23	During the Current financial year 2023-24
(A) Used Oil	1.980 KL	0.780 KL
(B) Resin	2.90 KG	0.0KG
(C) Phenolic Water	568 KL	1.255 KL

(a) From Process	As mentioned above Hazardous wastes.
(b) From pollution control facilities.	No Generation of Hazardous waste.

PART – E

Solid Waste
Total Quantity (MT)

		During the previous Financial year 2022-23	During the Current Financial Year 2023-24
(a) From process:			
Dolochar	:	54347.68 MT	36523.82 MT
Tailing	:	443621.84 MT	182348 MT
Ferro Slag	:	16016.01 MT	18145 MT
AOD Slag	:	978.68 MT	5380 MT
Manganese Oxide Dust	:	NIL	NIL
(b) From Pollution control facility:			
Ash	:	33436.35 MT	48065.64 MT
(c) 1. Quantity recycled or Re-utilized within the unit -			
Dolochar	:	655.67 MT	9045.55 MT
		(Consumed in our Captive Power Plant for power generation)	
Ash	:	14503.52 MT	26416.78 MT
		(Captive Consumption in our Own Bricks Plant)	
Ferro Slag	:	NIL	4777.69 MT
AOD Slag	:	81.80 MT	618.25 MT
		(Consumed in our Own Bricks Plant)	

2. Sold

Dolochar	:	60310.80 MT	27947.50 MT
Ash	:	18332.83 MT	25649.25 MT
Tailing	:	141425.54 MT	90482.93 MT
Ferro Slag	:	21891.89 MT	14841.28 MT
AOD Slag	:	802.31 MT	5448.48 MT
Manganese Oxide Dust:		NIL	NIL

PART – F

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

1. Generated solid waste Dolochar is being consumed in our AFBC Power plant as a raw material.
2. Generated Ash is being used in our own Bricks Plant, sold to others Brick plants and used for internal land filling.
3. Generated Tailing is being sold to cement plant units.
4. Generated Ferro Slag and AOD slag is being used in our own Bricks Plant and balance is sold to other plant.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and cost of production.

1. Captive consumption of Char/Dolochar in AFBC boiler so as to avoid use of coal as a raw material in view of, Conservation of environment as well as of natural Resources.

2. Domestic Discharged water of plant after treatment is used for plantation purpose & sprinkled on roads & sites for dust suppression.

3. Installed Rain water harvesting system within the plant premises.

PART – H

Additional measures/investment proposal for environment protection including abatement of Pollution, prevention of pollution.

Solid waste Management, RCC Road Construction inside the Premises, Extensive Tree Plantation and up keeping of all Pollution Control Equipment and installed Continuous Online Ambient and Stack Emission monitoring Systems for monitoring of Ambient Air Quality & stack emission and taking corrective actions accordingly, Installation of rain water harvesting system for harvest top roof rain water.

PART – I

Any other particulars for improving the quality of the environment.

Recycle of almost all solid wastes so as to ensure no disposal of solid waste as well as no discharge of water from factory to outside.
Constructing Rain water harvesting System within the plant premises.