GIRIDHAN METAL PRIVATE LIMITED

Registered Office : "PREMLATA" 39, Shakespeare Sarani, 2nd Floor, Kolkata - 700 017, West Bengal, India
Telefax : +91 33 2289 2734 / 35 / 36, E-mail : giridhanmetal@gmail com CIN : U27320WB2019PTC234675

Ref No. GMPL/24-25/SPCB/09

Date: 28.09.2024

To,

Environmental Engineer

West Bengal Pollution Control Board

Department of Environment, Govt. of West Bengal

Asansol Regional Office, Kalyanpur Satellite Township Project (K.S.T.P.)

Dr. B. C. Roy Road, P.O.-Dhadka, Asansol - 713302

Sub: Environmental Statement for the Period 2023-24 for Giridhan Metal Private Limited

Dear Sir,

We are hereby submitting the **'Environmental Statement' (Form-V)** for the FY 2023-24 for Giridhan Metal Private Limited, Jamuria Industrial Estate, Nandi, Jamuria, Paschim Bardhaman for your kind consideration.

Kindly knowledge our submission.

Thanking You.

Yours Sincerely

For **Giridhan Metal Private Limited**

(Authorised signatory)

GIRIDHAN METAL PVT. LTD. Jamuria

Copy to:

1. The Member Secretary, WBPCB, Paribesh Bhawan, Salt Lake, Kolkata-700106

FORM-V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2023-24

GIRIDHAN METAL PRIVATE LIMITED, JAMURIA

PART-A

Name and address of the owner/ occupier of the industry operation or process	Mr Sanjay Agarwal (Director) Giridhan Metal Private Limited Jamuria Industrial Estate P.O.-Nandi; P.S. - Jamuria Paschim Bardhaman – 713344 (W.B.)
Industry category Primary-(STC Code) Secondary-(STC Code)	Integrated Steel Plant ---
Production capacity	318000 TPA DRI, 372300 TPA MS Billet, 300000 TPA Steel Flat & Rolled Product, 30000 TPA Fe-Mn/Si-Mn with 42 MW CPP
Year of Establishment	2020 (Production starts from Aug 2021with 350 TPD DRI & 16 MW CPP)
Date of Last Environmental /Audit Report submitted	---

PART B

WATER AND RAW MATERIAL CONSUMPTION

1) Water consumption m^3/day

Process
Cooling } 421 m3
Domestic

Name of products	Process water consumption per unit of product output	
	During the financial year 2022-23	During the financial year 2023-24
Sponge Iron (m^3/MT)	0.21	0.19
Silico Manganese (m^3/MT)	0.32	0.29
Captive Power Plant ((m^3/MW)	0.28	0.21
MS Billet (m^3/MT)	-	0.11
Steel Flat & Rolled Product (m^3/MT)	-	0.27

2) Raw material consumption

Sl No	Name of Raw Material	Name of the Products	Consumption of raw material	
			2022-23 (MT/Yr)	2023-24 (MT/Yr)
1	Iron Ore/Pellet	Sponge Iron	3,36,037	4,64,753
2	Coal	Sponge Iron	2,35,336	3,10,531
3	Dolomite	Sponge Iron	8,701	6,240
4	Manganese Ore	Si-Mn	46857	47,403
5	Dolomite	Si-Mn	4633	508
6	Coal	Si-Mn	21907	11,359
7	Hard Coke	Si-Mn	8410	10,556
8	Fe-Mn slag	Si-Mn	2050	25,835

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9	Iron Ore/Pellet	Si-Mn	-	802
10	Quartz	Si-Mn	-	8,633
11	Coal	CFBC	2102	38,594
12	Dolochar	CFBC	-	40,124
13	Sponge/Pellet	MS Billet	-	82,706
14	Pig Iron	MS Billet	-	15,018
15	Scrap	MS Billet	-	12,651
16	Iron Ore	MS Billet	-	23,577
17	Si-Mn	MS Billet	-	216
18	Slag Metal	MS Billet	-	2,229
19	Skull Scrap	MS Billet	-	324
20	Anthracite Coal	MS Billet	-	277
21	MS Billet	Steel Flat & Rolled Product	-	90,246

PART-C
POLLUTION DISCHARGED TO ENVIRONMENT/ UNIT OF OUTPUT
(PARAMETERS AS SPECIFIED IN THE CONSENT ISSUED)

Sl No	Pollutants	Prescribed Standard (mg/l)	Quantity of Pollutants discharged (mass/day)		Concentration of Pollutants discharged (mass/volume)		Percentage of variation from prescribed standard with reasons
a)	Water	Standard norms (mg/l)	Kg/day		mg/lit		
			FY: 2022-23	FY: 2023-24	FY: 2022-23	FY: 2023-24	No deviation.
	pH	5.5-9.5	8.61	8.20	8.61	8.20	All values are within the standard norms.
	Total Suspended Solids (TSS)	100	0.15	0.36	10	23.83	
	BOD	30	0.06	0.19	3.87	12.72	No effluent discharge from the plant
	COD	250	0.19	0.78	12.33	51.83	
	Oil & Grease	10	<1.4	0.04	<1.4	2.73	
b)	AIR PM emission from Stack of	Prescribed Standard (mg/Nm^3)	Kg/day		mg/Nm^3		
			FY: 2022-23	FY: 2023-24	FY: 2022-23	FY: 2023-24	
	DRI 350 & 600 TPD attached with common stack through WHRB	30	82.93	121.05	14	20	No deviation.
	DRI product separation house (attached with common stack)	30	12.23	40.69	7	22.50	All values are within the standard norms as pollution control equipments are maintained properly
	DRI 350 TPD Cooler Discharge	30	6.03	11.72	6.50	16	
	DRI 360 TPD Cooler Discharge	30	-	9.75	-	11	
	Ferro Division (2x9MVA)	30	49.01	34.11	18	15	
	CPP CFBC Boiler	30	48.42	48.48	26	22	
	SMS	30	-	57.11		6.50	

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PART-D
HAZARDOUS WASTES

(AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT, HANDLING AND TRANS BOUNDARY MOVEMENT RULES, 2008)

The industry got consent for operation very recently and the process for getting the authorization as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016 is under process.

PART-E
SOLID WASTE

Sl. No.	Solid waste	Total Quantity Generated	
		FY: 2022-23	FY: 2023-24
E-1: Generation from process			
1	Dolochar from DRI	27961	40,124
2	Silico Manganese Slag	15339	24,356
2	SMS Slag	-	17,937
E-2: Generation from Pollution Control Equipments (Tonne/year)			
1	DE dust from DRI	7061	15,284
2	Ash	1906	35,196
E-3: Quantity Recycled/Reutilized within the unit (Tonne/year)			
1	Dolochar from DRI	27961	40,124
2	Ash	1906	5,279
3	DE dust from DRI	7061	13,194
4	SMS Slag	-	2,554
E-4: Quantity Sold (Tonne/year)			
NIL			
E-5: Quantity Disposed			
1	Si-Mn Slag	15339	24,356 (Land filling)
2	SMS Slag	-	15,383 (After metal recovery used in land filling)
3	DE dust from DRI	-	2,090 (Land filling)
4	Ash	-	29,917 (Land filling)

PART-F
Characteristics of Hazardous as well as Solid wastes and their method of disposal

Hazardous/ Solid Wastes	Characteristics	Method of disposal
Used oil	Oily	Sale to authorized recycler

PART-G
Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

1. Roof top rain water harvesting is being implemented at the beginning of the construction stage.
2. Dolochar generated from DRI process is being/will be reused in CFBC for generation of power
3. Waste heat of DRI plant is being used to generate power through waste heat recovery boiler.
4. Highly efficient pollution control equipments have been installed at all the operation units.
5. Raw material handling systems are equipped with efficient Dust suppression control measures.
6. Pollution dust generated from coal handling system is reused in power plant.
7. All pollution dust pneumatically conveying to a designated hopper to minimize fugitive dust.
8. Raw materials & products are conveying under fully covered condition.

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PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution

Environment Budgets (Planned Vs Actual) for FY 2023-24

Sl. No.	Item	Expenditure (Lakh(s) INR) Year-2023-24
1	Recurring cost for environmental protection during FY 2023-24	102.64
2	Installation of Biogas Plant	6.5
3	Installation of Effluent Treatment Plant (ETP)	270.3
4	Installation of Solar Pannel	125.9
5	Installation of Continuous Ambient Air Quality Monitoring Station (CAAQMS)	31.3
6	Installation of Electronic Display Board	1.3
Total		**537.94**

PART I

Any other particulars for improving the quality of the environment.

1. Around 50000 sq. meter area inside the plant premises is covered under paver block to minimize the fugitive dust.
2. We also doing third part environmental monitoring (quarterly) by NABL accredited as well as WBPCB recognized laboratory.
3. Water sprinkler has been installed to minimize the fugitive dust.
4. Housekeeping audit is being done each month for all units.
5. 33% area has been covered under plantation throughout the entire plant.

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