

**FORM-V**  
**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2024-25**  
**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	3,18,000 TPA DRI (Increase Sponge Iron production 3,18,000 to 3,88,000 TPD through NIPL, CTO No- WBPCB/6657363/2025 dated: 28/03/2025), 3,72,300 TPA MS Billet, 3,00,000 TPA Steel Flat & Rolled Product, 30,000 TPA Fe-Mn/Si-Mn with 42 MW CPP
Year of Establishment	2020 (Production starts from Aug 2021 with 350 TPD DRI & 16 MW CPP)
Date of Last Environmental /Audit Report submitted	---

**PART B**

**WATER AND RAW MATERIAL CONSUMPTION**

**1) Water consumption m<sup>3</sup>/day**

Process	}	884 m3
Cooling		
Domestic		

Name of products	Process water consumption per unit of product output	
	During the financial year 2023-24	During the financial year 2024-25
Sponge Iron (m <sup>3</sup> /MT)	0.19	0.20
Si-Mn/Fe-Mn (m <sup>3</sup> /MT)	0.29	0.28
Captive Power Plant ((m <sup>3</sup> /MW)	0.21	0.32
MS Billet (m <sup>3</sup> /MT)	0.11	0.24
Steel Flat & Rolled Product (m <sup>3</sup> /MT)	0.27	0.46

**2) Raw material consumption**

SI No	Name of Raw Material	Name of the Products	Consumption of raw material	
			2023-24 (MT/Yr)	2024-25 (MT/Yr)
1	Iron Ore/Pellet	Sponge Iron	4,64,753	4,88,867
2	Coal	Sponge Iron	3,10,531	3,07,708
3	Dolomite	Sponge Iron	6,240	6,571
4	Manganese Ore	Si-Mn/Fe-Mn	47,403	51,094
5	Dolomite	Si-Mn/Fe-Mn	508	202
6	Coal	Si-Mn/Fe-Mn	11,359	10,570

7	Coke (LAM + MET)	Si-Mn/Fe-Mn	10,556	11,692
8	Fe-Mn slag	Si-Mn/Fe-Mn	25,835	3,863
9	Iron Ore/Pellet	Si-Mn/Fe-Mn	802	-
10	Quartz	Si-Mn/Fe-Mn	8,633	6,616
	Manganese Ore Slag	Si-Mn/Fe-Mn		31,871
11	Coal	CFBC	38,594	35,625
12	Dolochar	CFBC	40,124	40,858
13	Sponge/Pellet	MS Billet	82,706	1,81,665
14	Pig Iron	MS Billet	15,018	26,130
15	Scrap	MS Billet	12,651	26,860
16	Iron Ore	MS Billet	23,577	37,654
17	Si-Mn	MS Billet	216	-
18	Slag Metal	MS Billet	2,229	7,025
19	Skull Scrap	MS Billet	324	1,376
20	Anthracite Coal	MS Billet	277	-
21	MS Billet	Steel Flat & Rolled Product	90,246	2,00,917

**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
			Kg/day		mg/lit		
a)	Water	Standard norms (mg/l)	FY: 2023-24	FY: 2024-25	FY: 2023-24	FY: 2024-25	No deviation.
	pH	5.5-9.5	8.20	6.54	8.20	6.54	
	Total Suspended Solids (TSS)	100	0.36	0.13	23.83	8.50	All values are within the standard norms.
	BOD	30	0.19	0.13	12.72	8.93	No effluent discharge from the plant
	COD	250	0.78	0.43	51.83	28.86	
	Oil & Grease	10	0.04	<1.4	2.73	<1.4	
b)	AIR PM emission from Stack of	Prescribed Standard (mg/Nm <sup>3</sup> )	Kg/day		mg/Nm <sup>3</sup>		No deviation.  All values are within the standard norms as pollution control equipments are maintained properly
			FY: 2023-24	FY: 2024-25	FY: 2023-24	FY: 2024-25	
	DRI 350 & 600 TPD attached with common stack through WHRB	30	121.05	202.84	20	21	
	DRI product separation house (attached with common stack)	30	40.69	41.09	22.50	18	
	DRI 350 TPD Cooler Discharge	30	11.72	-	16	-	
	DRI 360 TPD Cooler Discharge	30	9.75	12.30	11	15.50	
	Ferro Division (2x9MVA)	30	34.11	33.21	15	19	
	CPP CFBC Boiler	30	48.48	40.03	22	24	
SMS	30	57.11	108.68	6.50	14.33		

**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: 2023-24	FY: 2024-25
<b>E-1: Generation from process</b>			
1	Dolochar from DRI	40,124	40,858
2	Silico Manganese Slag	24,356	20,751
2	SMS Slag	17,937	29,540
<b>E-2: Generation from Pollution Control Equipments (Tonne/year)</b>			
1	DE dust from DRI	15,284	15,652
2	Ash	35,196	32,488
<b>E-3: Quantity Recycled/Reutilized within the unit (Tonne/year)</b>			
1	Dolochar from DRI	40,124	40,858
2	Ash	5,279	4,873
3	DE dust from DRI	13,194	13,460
4	SMS Slag	2,554	4,136
<b>E-4: Quantity Sold (Tonne/year)</b>			
NIL			
<b>E-5: Quantity Disposed</b>			
1	Si-Mn Slag	24,356 (Land filling)	20,751 (Land filling)
2	SMS Slag	15,383 (After metal recovery used in land filling)	25,404 (After metal recovery used in land filling)
3	DE dust from DRI	2,090 (Land filling)	2,191 (Land filling)
4	Ash	29,917 (Land filling)	27,615 (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.

**PART H**

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

**Environment Budgets (Planned Vs Actual) for FY 2024-25**

Sl. No.	Item	Expenditure (Lakh(s) INR) Year-2024-25
1	Recurring cost for environmental protection during FY 2023-24	160.42
2	Installation of Water Supply System from Effluent Treatment Plant (E.T.P.)	12.54
<b>Total</b>		<b>172.96</b>

**PART I**

**Any other particulars for improving the quality of the environment.**

1. More than 90% internal roads are concreted and around 80% of area where heavy vehicle movements are not envisaged are paved to minimize the fugitive dust.
2. Water sprinkler has been installed to minimize the fugitive dust.
3. Housekeeping audit is being done each month for all units.
4. 33% area has been covered under plantation throughout the entire plant.