

# 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/23-24/SPCB/10

Date: 27.09.2023

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 2022-23 for Giridhan Metal Private Limited**

Dear Sir,

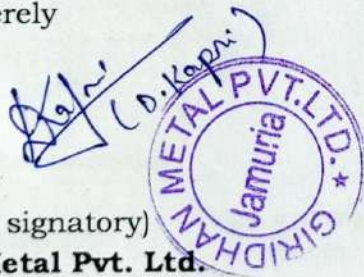
We are hereby submitting the '**Environmental Statement**' (**Form-V**) for the FY 2022-23 for Giridhan Metal Private Limited, Jamuria Industrial Estate, Nandi, Jamuria, Paschim Bardhaman for your kind consideration. We have filed the same in online also at your designated website.

Thanking You.

Yours Sincerely

(Authorized signatory)

**Giridhan Metal Pvt. Ltd.**



Copy to:

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

**FORM-V**

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2022-23**

**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, 30000 TPA Fe-Mn/Si-Mn with 30 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 }  
Cooling } 241 m<sup>3</sup>  
Domestic }

Name of products	Process water consumption per unit of product output	
	During the financial year 2021-22	During the financial year 2022-23
Sponge Iron (m <sup>3</sup> /MT)	0.22	0.21
Silico Manganese (m <sup>3</sup> /MT)	0.44	0.32
Captive Power Plant ((m <sup>3</sup> /MW)	0.38	0.28

**2) Raw material consumption**

SI No	Name of Raw Material	Name of the Products	Consumption of raw material	
			2021-22 (MT/Yr)	2022-23 (MT/Yr)
1	Iron Ore/Pellet	Sponge Iron	86802	3,36,037
2	Coal	Sponge Iron	77654	2,35,336
3	Dolomite	Sponge Iron	2729	8,701
4	Manganese Ore	Si-Mn	12061	46857
5	Dolomite	Si-Mn	2026	4633
6	Coal	Si-Mn	11732	21907
7	Hard Coke	Si-Mn	1674	8410
8	Fe-Mn slag	Si-Mn	---	2050
9	Coal	CFBC	7543	2102



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

SI 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: 2021-22	FY: 2022-23	FY: 2021-22	FY: 2022-23	No deviation.  Alls values are within the standard norms.  No effluent discharge from the plant
			pH	5.5-9.5	8.22	8.61	
	Total Suspended Solids (TSS)	100	0.36	0.15	10	10	
	BOD	30	0.12	0.06	3.3	3.87	
	COD	250	0.43	0.19	12.0	12.33	
	Oil & Grease	10	<0.63	<1.4	<1.4	<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.  Alls values are within the standard norms as pollution control equipments are maintained properly
			FY: 2021-22	FY: 2022-23	FY: 2021-22	FY: 2022-23	
	DRI 350 & 600 TPD attached with common stack through WHRB	30	119.67	82.93	17.0	14	
	DRI product separation house (attached with common stack)	30	14.37	12.23	4.6	7	
	DRI 350 TPD Cooling Tower	30	4.6	6.03	4.1	6.50	
	Ferro Division (2x9MVA)	30	19.77	49.01	6.0	18	
CPP CFBC Boiler	30	NA	48.42	NA	26		

**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**

SI. No.	Solid waste	Total Quantity Generated	
		FY: 2021-22	FY: 2022-23
<b>E-1: Generation from process</b>			
1	Dolochar from DRI	7855	27961
2	Silico Manganese Slag	2853	15339
<b>E-2: Generation from Pollution Control Equipments (Tonne/year)</b>			
1	DE dust from DRI	3882	7061
2	Ash	655	1906
<b>E-3: Quantity Recycled/Reutilized within the unit (Tonne/year)</b>			



1	Dolochar from DRI	7847	27961
2	Ash	655	1906
3	DE dust from DRI	3882	7061
<b>E-4: Quantity Sold (Tonne/year)</b>			
NIL			
<b>E-5: Quantity Disposed</b>			
1	Si-Mn Slag	2853	15339 (Low land filling inside the plant premises)

#### 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 2020-21

Sl. No.	Item	Expenditure (Lakh(s) INR) Year-2020-21
1	Recurring cost for environmental protection during FY 2022-23	335.8
2	Maintenance cost of ESP WHRB-1	9.6
3	Installation of ESP WHRB-2	385.5
<b>Total</b>		<b>730.9</b>

#### 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 and every month for all units.
5. 33% area has been covered under plantation throughout the entire plant.
6. More than 14000 tree plantation has been done in and around the plant premises.





EW461886685IN IVR:6987461886685  
RL JANURIAHAT SO <713336>  
Counter No:1,29/09/2023,11:03  
To:THE MEMBER SE,SALT LAKE  
PIN:700106, Bidhan Nagar IB Market SO  
From:G METAL PVT LTD,NANDI

Wt:15gms  
Amt:22.00(Cash)  
<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>  
<Dial 18002668868> <Wear Masks, B



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SP JANURIAHAT SO <713336>  
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To:ENVIRONMENTAL.B.C.ROY ROAD  
PIN:713302, Dakshin Dhadka SO  
From:G METAL PVT LTD,NANDI