GIRIDHAN METAL PRIVATE LIMITED

Registered Office : "PREMLATA" 39, Shakespeare Sarani, 3rd Floor, Kolkata - 700 017, West Bengal, India
Telefax : +91 33 2289 2734 / 35 / 36. E-mail : giridhanmetal@gmail.com. CIN : U27320WB2019PTC234675

Ref No. GMPL/22-23/SPCB/08 Date: 22.09.2022

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 2021-22 for Giridhan Metal Private Limited

Dear Sir,
We are hereby submitting the **'Environmental Statement' (Form-V)** for the year of 2021-22 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

Sanjay Agarwal
Director

GIRIDHAN METAL PVT. LTD. NANDI

Copy to:
1. The Member Secretary, WBPCB, Paribesh Bhawan, Salt Lake, Kolkata-700098
2. The IGF & Incharge, GOI, MoEF&CC, Integrated Regional Office, Kolkata, 1B-198, Salt Lake City, Setor-III, Kolkata-700106

Works : Jamuria Industrial Estate, P.O. Nandi, P.S. Jamuria, Paschim Bardhaman - 713 344, West Bengal, India
Email : giridhanmetaljamuria@gmail.com

FORM-V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2020-21

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	120000 TPA DRI, 30000 TPA Fe-Mn/Si-Mn with 16 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 } 120 m3
Domestic

Name of products	Process water consumption per unit of product output	
	During the current financial year 2020-21	During the current financial year 2021-22
Sponge Iron (m^3/MT)	NA	0.22
Silico Manganese (m^3/MT)	NA	0.44
Captive Power Plant ((m^3/MW)	NA	0.38

2) Raw material consumption

Sl No	Name of Raw Material	Name of the Products	Consumption of raw material	
			2020-21 (MT/Yr)	2021-22 (MT/Yr)
1	Iron Ore/Pellet	Sponge Iron	NA	86802
2	Coal	Sponge Iron	NA	77654
3	Dolomite	Sponge Iron	NA	2729
4	Manganese Ore	Si-Mn	NA	12061
5	Dolomite	Si-Mn	NA	2026
6	Coal	Si-Mn	NA	11732
7	Hard Coke	Si-Mn	NA	1674
8	Coal	CFBC	NA	7543
9	Dolochar	CFBC	NA	7847

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		FY: 2020-21	FY: 2021-22	FY: 2020-21	FY: 2021-22	
	pH	5.5-9.5	NA	8.22	NA	8.22	No deviation.
	Total Suspended Solids (TSS)	100	NA	0.36	NA	10	Alls values are within the standard norms.
	BOD	30	NA	0.12	NA	3.3	
	COD	250	NA	0.43	NA	12.0	No effluent discharge from the plant
	Oil & Grease	10	NA	<0.63	NA	<1.4	
b)	AIR PM emission from Stack of	Prescribed Standard (mg/Nm³)	Kg/day		mg/Nm³		
			FY: 2020-21	FY: 2021-22	FY: 2020-21	FY: 2021-22	
	DRI – 1 (1x350TPD)	30	NA	119.67	NA	17.0	No deviation.
	Product Handling (DRI -1 & 2 common)	30	NA	14.37	NA	4.6	Alls values are within the standard norms as pollution control equipments are maintained properly
	CD & Surge Bin (DRI -1 & 2 common)	30	NA	4.6	NA	4.1	
	Ferro Alloys (9MVA x 2 nos)	30	NA	19.77	NA	6.0	

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: 2020-21	FY: 2021-22
E-1: Generation from process			
1	Dolochar from DRI	NA	7855
E-2: Generation from Pollution Control Equipments (Tonne/year)			
1	Coal DE dust	NA	3882
2	Ash	NA	655
E-3: Quantity Recycled/Reutilized within the unit (Tonne/year)			
1	Dolochar from DRI	NA	7847
2	Si-Mn Slag	NA	2853
3	Ash	NA	655
4	Coal Pollution Equipment dust	NA	3882
E-4: Quantity Sold (Tonne/year)			

L			
-5: Quantity Disposed			
i	Si-Mn Slag	NA	2853

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	Will be 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 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 closely 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 abatement of pollution for 2020-21	120
2	Installation of real-time dust analyzer	19.5
3	Installation of real-time SO_2-NOx analyzer	18.5
4	Installation of conveying system & pug mill for management of bag filter dust at DRI	15.0
5	Installation of conveying system & pug mill for management of ESP dust at DRI & CPP	23.5
6	Installation of ESP & Bag Filter	130
Total		**326.5**

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. About 9800 Sq. meter of Garden has been added at various locations inside plant premises such as Administrative building, Weigh bridge, DRI Plant, Power Plant, Project Office Area, Ferro Alloys Plant etc
6. More than 2000 tree plantation has been done in and around the plant premises.