

# 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

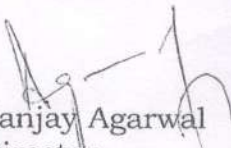
**Sub: Environmental Statement for the Period 2021-22 for Giridhan Metal Private Limited**

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



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

**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)<br>Giridhan Metal Private Limited<br>Jamuria Industrial Estate<br>P.O.-Nandi; P.S. - Jamuria<br>Paschim Bardhaman – 713344 (W.B.) |
| Industry category Primary-(STC Code)<br>Secondary-(STC Code)                 | Integrated Steel Plant<br>---  |
| Production capacity  | 120000 TPA DRI, 30000 TPA Fe-Mn/Si-Mn with 16 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 } 120 m<sup>3</sup>  
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 <sup>3</sup> /MT)          | NA   | 0.22                                      |
| Silico Manganese (m <sup>3</sup> /MT)     | NA   | 0.44                                      |
| Captive Power Plant ((m <sup>3</sup> /MW) | NA   | 0.38                                      |

**2) Raw material consumption**

| SI 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)**

| 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)    | <b>Water</b>                         |   |  |             |  |             | No deviation.<br><br>Alls values are within the standard norms.<br><br>No effluent discharge from the plant            |
|       |                                      |   | FY: 2020-21                                  | FY: 2021-22 | FY: 2020-21  | FY: 2021-22 |  |
|       | pH                                   | 5.5-9.5                                   | NA   | 8.22        | NA   | 8.22        |  |
|       | Total Suspended Solids (TSS)         | 100                                       | NA   | 0.36        | NA   | 10          |  |
|       | BOD                                  | 30  | NA   | 0.12        | NA   | 3.3         |  |
|       | COD                                  | 250                                       | NA   | 0.43        | NA   | 12.0        |  |
|       | Oil & Grease                         | 10  | NA   | <0.63       | NA   | <1.4        |  |
| b)    | <b>AIR PM emission from Stack of</b> |   |  |             |  |             | No deviation.<br><br>Alls values are within the standard norms as pollution control equipments are maintained properly |
|       |                                      | Prescribed Standard (mg/Nm <sup>3</sup> ) | Kg/day                                       |             | mg/Nm <sup>3</sup>                                   |             |  |
|       |                                      |   | FY: 2020-21                                  | FY: 2021-22 | FY: 2020-21  | FY: 2021-22 |  |
|       | DRI - 1 (1x350TPD)                   | 30  | NA   | 119.67      | NA   | 17.0        |  |
|       | Product Handling (DRI -1 & 2 common) | 30  | NA   | 14.37       | NA   | 4.6         |  |
|       | 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**

| SI No.  | Solid waste                   | Total Quantity Generated |             |
|---|-------------------------------|--------------------------|-------------|
|   |                               | FY: 2020-21              | FY: 2021-22 |
| <b>E-1: Generation from process</b>                                   |                               |                          |             |
| 1   | Dolochar from DRI             | NA                       | 7855        |
| <b>E-2: Generation from Pollution Control Equipments (Tonne/year)</b> |                               |                          |             |
| 1   | Coal DE dust                  | NA                       | 3882        |
| 2   | Ash                           | NA                       | 655         |
| <b>E-3: Quantity Recycled/Reutilized within the unit (Tonne/year)</b> |                               |                          |             |
| 1   | Dolochar from DRI             | NA                       | 7847        |
| 2   | Si-Mn Slag                    | NA                       | 2853        |
| 3   | Ash                           | NA                       | 655         |
| 4   | Coal Pollution Equipment dust | NA                       | 3882        |
| <b>E-4: Quantity Sold (Tonne/year)</b>                                |                               |                          |             |

|                              |            |    |      |
|------------------------------|------------|----|------|
| <b>-5: Quantity Disposed</b> |            |    |      |
| 1                            | 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 <sub>2</sub> -NO <sub>x</sub> 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                                    |
| <b>Total</b> |  | <b>326.5</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. 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.

भारतीय डाक



EW038867223IN IVR:6987038867223  
SP JAMURIAHAT SO <713336>  
Counter No:1,26/09/2022,10:45  
To:THE IGF & INCHARGE,GOI MOEF &CC  
PIN:700106, Bidhan Nagar IB Market SO  
From:GIRIDHAR ME,JAMURIA INUSTRIA  
Wt:30gms  
Amt:41.30(Cash)Tax:6.30  
<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>  
<Dial 18002666868> <Wear Masks, Stay Safe>

भारतीय डाक



EW038867118IN IVR:6987038867118  
SP JAMURIAHAT SO <713336>  
Counter No:1,26/09/2022,10:45  
To:ENVIRONMENTAL,W B POLLUTION  
PIN:713302, Dakhin Dhadka SO  
From:GIRIDHAR ME,JAMURIA INUSTRIA  
Wt:30gms  
Amt:41.30(Cash)Tax:6.30  
<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>  
<Dial 18002666868> <Wear Masks, Stay Safe>

भारतीय डाक



EW038867210IN IVR:6987038867210  
SP JAMURIAHAT SO <713336>  
Counter No:1,26/09/2022,10:45  
To:TO THE MEMBER,W B POLLUTION  
PIN:700097, Furbachal SO  
From:GIRIDHAR ME,JAMURIA INUSTRIA  
Wt:30gms  
Amt:41.30(Cash)Tax:6.30  
<Track on [www.indiapost.gov.in](http://www.indiapost.gov.in)>