



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
STEEL AUTHORITY OF INDIA LIMITED  
बोकारो इस्पात संयंत्र  
BOKARO STEEL PLANT  
एम.ओ.एम., चिड़िया  
MOM, CHIRIA

Ref. No. MOM/PC/6/ 199

Date: 26-04-2023.

To,  
The Member Secretary  
Jharkhand State Pollution Control Board  
Head office, HEC Complex  
T.A. Building, Dhurwa  
Ranchi-834004.

**Sub: Environmental Statement of Manoharpur Ore Mines Siding for the year 2022-23.**

Sir,

Please find the enclosed Environmental Statement for the year 2022-23, in respect of Manoharpur Ore Mines Siding, Steel Authority of India Limited .

Thanking you,

Yours faithfully,

  
(S S Rao)  
DGM (Mining)

Copy to: The Regional officer, JSPCB, Jamshedpur.



**ENVIRONMENTAL STATEMENT YEAR: 2022-23**  
**Manoharpur Ore Mines Siding**



**Steel Authority of India Limited**  
**Bokaro Steel Plant**  
**Manoharpur Ore Mines, Chiria**  
**West Singhbhum (Dist.)**  
**Jharkhand – 833106**

**April, 2023**

  
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## **FORM – V**

**Environmental Statement for the financial year ending 31<sup>st</sup> March 2023**

### **PART – A**

- (i) **Name and address of the owner/occupier of the industry operation or process.** : Manoharpur Ore Mine  
P.O- Chiria,  
Dist. : Singhbhum (West)  
Pin- 833106, Jharkhand
- Agent : Shri Kamal Bhasker,  
Chief General Manager (Mines)
- Nominated Owner : Shri Amarendu Prakash,  
Director I/C Bokaro Steel Plant
- (ii) **Industry category Primary - (STC code) Secondary - (SIC Code)** : Manoharpur Ore Mines Siding
- (iii) **Production capacity** : 3.0 MTPA
- (iv) **Year of establishment** : 1985
- (v) **Date of the last environmental statement submitted** : 28.04.2022

### **PART – B**

#### **Water and Raw Material Consumption**

- (1) **Water consumption**  $\text{m}^3/\text{day}$
- Indoor, Cleaning etc. 111
- Process (Includes both Mines + Siding area)

<i>Name of Products</i>	<i>Process water consumption per unit of product output</i>	
	<i>During the previous financial year (2021-22)</i>	<i>During the Current financial (2022-23)</i>
Iron Ore	0.386 KL/Te	0.085 KL/Te





## (1) Raw Material Consumption

<i>Name of raw materials</i>	<i>Name of products</i>	<i>Process water consumption per unit of product output</i>	
		<i>During the previous financial year (2021-22)</i>	<i>During the Current financial (2022-23)</i>
Not Applicable	Not Applicable	Not Applicable	Not Applicable

## PART - C

### Pollution discharged to environment / unit of output

#### a) Water Environment

<i>Pollutants</i>	<i>Quality of pollutants generated (mass/volume)</i>	<i>Concentrations of pollutants in discharges</i>	<i>Percentage of variation from prescribed standards with reason. Standard</i>
Except water spraying there is no water usage at Manoharpur Ore Mines Siding			

#### b) Air Environment

- 1) To minimize dust pollution water spraying on roads, unloading and loading area being done regularly.
- 2) Trucks & Dumper used for transpiration are covered with tarpaulin sheet to avoid fugitive dust emissions. The average ambient air quality at Manoharpur Ore Mines Siding is given below.
- 3) PM10 Continuous Ambient Air Quality Monitoring station (CAAQMS) was installed with online connectivity to JSPCB/CPCB portal
- 4) Monitoring report of Continuous Ambient Air Quality Monitoring station is enclosed at **Annexure-1**.
- 5) Fixed water pipe line of 360 mts has been laid in siding area wherein water tapes have been provided at 50 mts interval for spraying of water with flexible hose to prevent dust generation at railway siding area.

  
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**PART –D**  
**Hazardous Wastes**

Hazardous Wastes	Total Quantity(kg)	
	During the previous Financial Year (2021-22)	During the current Financial Year (2022-23)
a) From Process	Not Applicable	Not Applicable
b) From Pollution Control facilities	Not Applicable	Not Applicable

**PART – E**  
**Solid Wastes**

Only loading of iron ore into wagons and there is no solid waste .Hence Not Applicable

Wastes	Total Quantity(Tonnes)	
	During the previous Financial Year (2021-22)	During the current Financial Year (2022-23)
(a) From Process (1) Solid waste (Yellow) (2) Bio-Medical Wastes	NIL	NIL
(b) From Pollution Control facilities	NIL	NIL
(c) (1) Quantity recycled or re- utilized within the unit (2) Sold (3) Disposal	Nil	Nil

**PART –F**

**The characteristics (in terms of concentration and quantum) of Hazardous as well as Solid Wastes and their disposal practices adopted for these categories of wastes are as follows:**

There is no solid waste and Hazardous Waste. Hence Not Applicable





## **PART – G**

### **Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.**

The major pollution prevention / control measures adopted at Manoharpur Ore Mines Siding are as follows.

- 1) To minimize dust pollution water spraying on roads, unloading and loading area being done regularly.
- 2) Trucks & Dumper used for transpiration are covered with tarpaulin sheet to avoid fugitive dust emissions.
- 3) Fixed water pipe line of 360 mts has been laid in siding area wherein water tapes have been provided at 50 mts interval for spraying of water with flexible hose to prevent dust generation at railway siding area.
- 4) Rooftop rainwater harvesting system at Chiria Guest House, Rain water harvesting pits at Railway siding and Mines was provided.

## **PART – H**

### **Additional investment proposal for environmental protection including abatement of pollution.**

The following additional investment proposals for environmental protection including abatement of pollution are under consideration for the mine:


- 1) To minimize dust pollution water spraying on roads, unloading and loading area being done regularly.
- 2) Trucks & Dumper used for transpiration are covered with tarpaulin sheet to avoid fugitive dust emissions.
- 3) Planting of sapling along the back side of the railway siding

## **PART – I**

### **Any other particulate in respect of environment protection and abatement of pollution.**

1. Creating awareness amongst employees and public regarding Precautions to be taken for maintaining good health, protection of environment by observing Environment day, Environment month and Environment week.
2. Display of Boards about health awareness & importance of cleanness.
3. Celebration for Mass awareness by slogans, Health camps.
4. Observing Swachhta Pakhwada at MOM Chiria

Date : 26.04.2023

  
(Name of In-charge E&L Dept.)  
Name : S. S. Rao  
Designation : DGM (Mining)  
Manoharpur Ore Mines, Chiria

**VASTHI ENVIRO**

Industry: MANOHARPUR ORE MINES SIDING,

Industry Code:

Industry Category: MINING

Industry Type: Ambient

Station : RAILWAY\_SIDING

P S-MANOHARPUR,Jharkhand

Mauza- MANOHARPUR,P S-MANOHARPUR

WEST SINGHBHUM

Annexure - I

RAILWAY_SIDING(PM10)	
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Range	0-10000
Unit	µg/m3
Limit	NA
Min	24.83
Max	51.6
Avg	34.62

SL	Datentime	RAILWAY_SIDING(PM10)
1	2023-03-01 00:00:00	36.466
2	2023-03-02 00:00:00	35.695
3	2023-03-03 00:00:00	37.111
4	2023-03-04 00:00:00	34.59
5	2023-03-05 00:00:00	37.89
6	2023-03-06 00:00:00	33.497
7	2023-03-07 00:00:00	34.262
8	2023-03-08 00:00:00	35.131
9	2023-03-09 00:00:00	34.843
10	2023-03-10 00:00:00	37.108
11	2023-03-11 00:00:00	34.866
12	2023-03-12 00:00:00	36.448
13	2023-03-13 00:00:00	36.614
14	2023-03-14 00:00:00	35.451



**VASTHI ENVIRO**

Industry: MANOHARPUR ORE MINES SIDING,

Industry Code:

Industry Category: MINING

Industry Type: Ambient

Station : RAILWAY\_SIDING

P S-MANOHARPUR,Jharkhand

Mauza- MANOHARPUR,P S-MANOHARPUR

WEST SINGHBHUM

SL	Datentime	RAILWAY_SIDING(PM10)
15	2023-03-15 00:00:00	36.223
16	2023-03-16 00:00:00	34.175
17	2023-03-17 00:00:00	34.035
18	2023-03-18 00:00:00	34.062
19	2023-03-19 00:00:00	35.818
20	2023-03-20 00:00:00	31.685
21	2023-03-21 00:00:00	24.828
22	2023-03-22 00:00:00	29.918
23	2023-03-23 00:00:00	30.568
24	2023-03-24 00:00:00	29.683
25	2023-03-25 00:00:00	31.343
26	2023-03-26 00:00:00	33.553
27	2023-03-27 00:00:00	32.394
28	2023-03-28 00:00:00	31.55
29	2023-03-29 00:00:00	37.345
30	2023-03-30 00:00:00	34.392
31	2023-03-31 00:00:00	51.6

