



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/6/200

Date: 26-04-2023.

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

**Sub: Environmental Statement of SAIL Chiria Hospital for the year 2022-23.**

Sir,

Please find the enclosed Environmental Statement for the year 2022-23, in respect of SAIL Chiria Hospital, Manoharpur Ore Mines, of 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**  
**SAIL CHIRIA HOSPITAL**



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

**April, 2023**

  
26/4/23

## 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 Mines,  
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)** : SAIL Chiria Hospital
- (iii) **Production capacity** : 13 beds
- (iv) **Year of establishment** : 1925
- (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, Lab, Cleaning 20  
etc. Process

<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





## (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

This is a Hospital medicine & treatment will be given to both Indoor and Outdoor patients

## 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 Standard</i>	<i>Percentage of variation from prescribed standards with reason.</i>
Water from laboratory and washing, cleaning, housekeeping is disinfection by chemical treatment and discharged in to drains. Provided proper drainage system. Hamsadagara nalla is the nearest perennial water source. The annual average quality is as follows:			
<b>1. U/S of Hamsadagara Nalla: Up stream</b>			
(i) pH	7.52-8.4	6.5 – 8.5	-
(ii) Temp	19.7-30.7	-	-
(iii) Turbidity	2.39-3.1	-	-
(iv) Conductivity	126.1-190	-	-
(v) DO	7.8-8.8	-	-
(vi) TDS	68.2-93.5	500 mg/l	-
<b>2. D/S of Hamsadagara Nalla: Down Stream</b>			
(i) pH	7.5-8.44	6.5 – 8.5	-
(ii) Temp	19.8-30.5	-	-
(iii) Turbidity	2.25-2.77	-	-
(iv) Conductivity	112.8-175	-	-
(v) DO	7.95-8.85	-	-
(vi) TDS	55.4-87.5	500 mg/l	-



**b) Air Environment**

This is a Hospital medicine & treatment will be given to both Indoor and out patients. This will not cause any Air pollution. The average ambient air quality at Hospital for the year 2022-23 is given below:

Unit : microgram/m <sup>3</sup>			
<i>Pollutants</i>	<i>Quality of pollutants generated (mass/volume)</i>	<i>Concentrations of pollutants in discharges Standard</i>	<i>Percentage of variation from prescribed standards with reason.</i>
Location- Chiria Hospital			
i) PM <sub>10</sub>	50.25-74.92	100	-
ii) SO <sub>2</sub>	10.27-18.66	80	-
iii) NO <sub>2</sub>	15.5-28.8	80	-

**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 & Bio- Medical Waste**

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)	0.327 Ton	0.072 Ton
(2) Bio-Medical Wastes	0.509 Ton	0.213 Ton



(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:**

- (1) **Solid Wastes** : Microbiology and Biology waste, Waste Sharps and Human Anatomical Waste are generated from Chiria hospital and their mode of disposal are as follows:

Waste	Overburden / Reject
a) Solid Waste	Secured land fills
b) Microbiology and Biology waste, Waste Sharps	Through autoclaving
c) Human Anatomical Waste	(Secured landfills)

### 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 Chiria Hospital are as follows.

- 1) Liquid Waste generated from laboratory and washing, cleaning, housekeeping is disinfection by chemical treatment and discharged in to drains.
- 2) Microbiology and Biology waste, Waste Sharps through autoclaving.
- 3) The Bio Medical Waste generated is being segregated in colored containers according to colour code. Treatment of segregated wastes is being done at common facility, dully authorized by State Pollution Control Board, Jharkhand. i.e M/S Adityapur Waste Management Private Ltd.



## **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) Microbiology and Biology waste, Waste Sharps through autoclaving.
- 2) The Bio Medical Waste generated is being segregated in colored containers according to colour code. Treatment of segregated wastes is being done at common facility, dully authorized by State Pollution Control Board, Jharkhand. i.e M/S Adityapur Waste Management Private Ltd. The Bio Medical Waste generated is being segregated according to schedule-II of the Rule.

## **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**