स्टील ऑथोरिटी ऑफ इंण्डिया लिमिटेड

(भारत सरकार का प्रतिष्ठान) रॉ मटेरियल्स डिभीजन मनोहरपुर ओर माइंस पोस्ट - चिरियां, प० सिंहभुम, झारखण्ड- ८३३१०६ दुरभाष-९३०८१२८७७६,



STEEL AUTHORITY OF INDIA LIMITED

Date: 19-05-2020.

(A Government of India Enterprise)
RAW MATERIALS DIVISION
MANOHARPUR ORE MINES
P.O. – CHIRIA, W. Singhbhum, Jharkhand-833106
P Ph. No.9308128776,

Ref. No.MOM/PC/ 6/ 101

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

Sub: Environmental Statement for the year 2019-20.

Dear Sir,

Please find the enclosed herewith Environmental Statement for the year 2019-20, in respect of Manoharpur Ore Mines, Chiria. For needful please.

Thanking you,

Yours faithfully,

(S Srinivasa Rao) AGM (Mining)

Copy to: The Regional officer, JSPCB, Jamshedpur.

(Regd. Office: Ispat Bhawan, Lodi Road, P.O. Box-3049, New Delhi-110003, Ph. No.-011-24387481(14Lines) पंजीकृत कार्यालय- ईस्पात भवन, लोदी रोड, पो० ब० न०-३०४९, नई दिल्ली, ११०००३,दुरभाष-०११२४३८७४८१(१४लाइन), Fax No.011-24367015, Gram-STEELINDIA, E-mail: sailco@vsnl.com) फैक्स-०११२४३६७०१५, ग्राम-स्टीलइन्डीया, ई-मेल: sailco@vsnl.com)



ENVIRONMENTAL STATEMENT YEAR: 2019-20 Manoharpur Ore Mines



Steel Authority of India Limited Raw Materials Division Manoharpur Ore Mine West Singhbhum (Dist.) Jharkhand – 833 106

May, 2020



FORM-V (See rule 14)

Environment Statement for the financial year ending 31st March 2020.

PART A

1. 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 Ravi Ranjan.

Dy.General Manager (Mines)

Nominated Owner : Sri Vivek Gupta Director (RM & L)

Industry Category

- Primary, Iron Ore Mining

Production capacity

- 0.75 Million tones / Annum

4. Year of establishment

- 1911

5. Date of the last environment

- 15-05-2019.

Statement submitted

PART B

Water and Raw Materials Consumption

I. Water Consumption KL/day:

Industrial

(a) Cooling of Engine

5 KL/day

(b) Water Spraying on haul road & Crusher for dust suppression

- 85 KL/day

(c) Mislenoius

20 KL/day

Domestic

- 1350 KL/day

Name of product

Process Water Consumption per unit of Product output.

During the previous

During the current

financial year .

financial year.

Iron Ore

0.075 KL/Te

0.045 KL/Te

Details of Water consumption for the year 2019-20.

Permission obtained from Water Resource Department, Govt. Of Jharkhand and agreement has been made with Water Ways Division, Chaibasa on 03.08.2017, for drawl of water from Hamsadagara Nalla to the tune of 0.62 MCM per annum for Manoharpur Ore Mines, Chiria.

As per the agreement, water charges are being paid to Executive Engineer Water Ways Division Chaibasa on monthly basis.

Industrial: There is no processing unit, But Water is being used in diesel engine for cooling purpose & Water Spraying on haul road & Crusher for dust suppression. Water for mines and miscellaneous uses is varying from 97-111 KL.



Township, Drinking & Domestic

About 3951 persons have been provided water supply facility in the township. water consumption for drinking and domestic purpose in the township is 1350 KL/Day.

2. Raw materials consumption

Name of Raw Material	Name of the product	Consumption of Raw material per unit(Te)	
		During the previous financial year 2018-19	During the current financial year 2019-20
Diesel It/Te	Iron ore	0.110	0.095
Lubricants Lt/Te	Iron ore	0.0031	0.00073
Explosives in Kg/Te	Iron ore	0.121	0.104

PART C

Pollution discharged to Environment/Unit of output

(Parameters as specified in the consent issued)

Environmental Lab has been set up at Monoharpur Ore Mineswith following equipment

- a) Respirable Dust Sampler, Model-APM460(BL),
- b) Fine Particulate Sampler PM 550 Model
- C) Gaseous Sampling Attachment APM 411(TE) Model
- D) Sound Level meter Model SLM-100
- Air, Water and Noise quality monitoring is being carried out regularly.

In addition to this, environmental quality monitoring is also being carried out by JSPCB on Half yearly basis.

- a) Water quality monitoring: Water quality monitoring was done at different locations of Hamsadagara Nalla as well as spring water. Analysis report is enclosed as Annexure-A
- b) Air quality monitoring: Ambient air quality monitoring was done during the year 2019-20 at different locations is enclosed as Annexure-B.
- c) Noise Monitoring: Noise monitoring was done at Different locations and analysis report is enclosed as annexure-C.

PART D HAZARDOUS WASTE

(As specified under Hazardous Wastes / Management and Handling Rules, 1989)

Hazardous Waste	Total qty. in Kg.		
	During the previous year 2018-19	During the current year 2019-20	
(a) From process	180 Kg (Burnt or used oil)	30 Kg (Burnt or used oil)	
(b) Cotton Waste		***	



PARTE SOLID WASTES

	Total qty. in Kg.		
Duri	ng the Previous year (2018-19)	During the current year (2019 – 20)	
(a) From process (overburden)(b) From pollution control	4179.40 Te	11896.00Te	
Facilities	NIL	NIL	
(c) Quantity recycled :Reutilized Within the Unit	Nil	Nil	
(d) Solid	Nil	Nil	
(c) Disposed	4179.40 Te	11896.00Te	

PART F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid waste and indicate disposal practice for both these categories of waste.

Used oil and Cotton waste are the hazardous waste generated at Manoharpur Ore Mines. The quantity of used oil and cotton waste is very negligible. However used oil stored temporarily stored in sealed drums for auction to registered recycler. The main solid waste generated from mining operations is OB & Waste which is dumped in the yard demarcated in the approved mining plan and leveled properly.

PART G

Impact of the pollution abatement measures taken on conservations of all resources and on the cost of production.

- 1. Regular water spraying on haull roads has reduced generation of air borne dust from mining haull roads.
- 2. Afforestation at mines and town ship area.
- 3. Ear plugs and dust masks are provided to the employees who are engaged in the area where there is possibility of such pollution.

PART H

Additional measures /investment proposal for Environmental protection including abatement of pollution, prevention of pollution.

1100 saplings are planted at mines area in 2019-20.

PARTI

Expenditure on environmental control measures and studies during 2019-20 is given below

Cost of water spraying for dust	: Rs.29.37 lacs
Suppression	. 1.0.20.07 1000
Cost of afforestation of trees	: Rs 1.65 lacs
Cost of Water Analysis Kit	: Rs. 1.20 lacs
4. Monitoring Air and water, Noise & awareness	: Rs 21.23 lacs
creation World Environment week, ME&MC	
week, Swachata Pakwada EIA/EMP	
Total	: Rs.53.45 lacs
Iron ore dispatch	: 733794.93 Te
Cost per tonne on environment Expenses=	Rs.7.28



STEEL AUTHORITY OF INDIA LTD. MANOHARPUR ORE MINES, CHIRIA

NOISE QUALITY MONITORING REPORT

No. of Sapling points

: 07

Date of Sapling

: 11/07/2019

Weather

: Sunny

SI. No.	Location	Observed Noise Level in dB (A)	Prescribed Limit in day time in dB (A)
1	Near GM Office	64.2	75
2	Near Chiria Hospital	46.5	50
3	Near Mines Canteen	68.3	75
4	Near Mines Weigh Bridge	69.6	75
5	Near Sub-grade Dump	66.4	75
6	Near AnkuaChowk	48.5	55
7	Near Railway siding	70.2	75

S S Rao

Sr. Manager (Min)





JHARKHAND STATE POLLUTION CONTROL BOARD ADITYAPUR, JAMSHEDPUR

AMBIENT AIR QUALITY REPORT

Lab. Ref. No:- 24/2019

Name of the Industry :- M/s Manoharpur Iron Ore Mines,

At+ P.O- Chiriya,

Dist- West Singhbhum.

Date of Sampling

:- 09-10.07.2019

No. of Sampling Points-3 Sampling Position:

1. Near General Office

2. Near Mines weigh Bridge

3. Near Mines work shop.

Weather Condition :- Cloudy/Rainy

Time	SO2	NOX	RSPM
Point -1			The state of the s
8.45 AM- 12.45 PM	i+.73	21.92	86.18
12.45 PM- 4.45 PM	22,47	23.80	00.10
4.45 PM- 8.45 PM	18.64	25.13	70.96
8.45 PM- 12.45 AM	24.67	27.11	VITAGE
Maximum	24.67	27.11	80.18
Average	21.38	24.49	78.57
Point -2			
9.15 AM-1 15 PM	18.64	20.67	82.49
1.15 PM- 5.15 PM	14.25	18.51	- Ta - 4.5
5.15 PM- 9.15 PM	18.09	22.55	66.86
9.15 PM- 1.15 AM	21.38	24.47	0.0.00
Maximum	21.38	24,47	82.49
Average	18.09	21,55	74.68
Point- 3			74.00
0 AM- 2 PM	12.06	15.66	92.74
2 PM-6 PM	14.80	18.51	94.74
6 PM-10 PM	16 44	21.16	78.08
10 PM-2 AM	18.64	23.80	70.08
Maximumi	18.64	23.80	92.74
Verage	15,49	19.78	85.41

NOTE: All value are expressed in micro gram/cubic meter.

Remarks :- The value of all parameters were observed within the limit prescribed.

(Lab. Incharge) Jamshedpur.

(Regional Officer) Jamshedpur.

Board Analyst





JHARKHAND STATE POLLUTION CONTROL BOARD REGIONAL OFFICE-CUM-LABORATORY, MB/15,NEW HOUSING COLONY ADITYAPUR, JAMSHEDPUR.

Lab. Ref. No:- 725/2019

Date.....

Analysis report of Physico Chemical Examination of Sewage/Trade Effluent.

Name and Address of the Unit 1.

M/s Manoharpur Ore Mines,

At-Chiriya, Dist- West Singhbhum.

Point of Collection

D/S Hamsadaga Nallah

3. Date and Time of Collection

09.07.2019 at 02.15 PM

4. Collected By

Regional Office-Cum Laboratory, Jsr.

5. Sample Source

Nallah Water

S1. No.	PARTICULARS	VALUE OBTAINED
1.	Temp A/W	35 1/33
2.	pH	25.1/23.4
3.	BOD3 mg/lt	7.5
4.	COD mg/t	5.0
5.	COD mg/lt	16.0
6.	Total Solid Total Suspended Solid	352.0
7.	Total Dissolve Solid	48.0
	Total Dissolve Solid	304.0

Remarks :-

(Analyst)

(Lab. Incharge) Jamshedpur.

(Regional Officer) Jamshedpur.

(Board Analyst)





JHARKHAND STATE POLLUTION CONTROL BOARD

REGIONAL OFFICE-CUM-LABORATORY, MB/15.NEW HOUSING COLONY ADITYAPUR, JAMSHEDPUR.

Lab. Ref. No:- 724/2019

Date.....

Analysis report of Physico Chemical Examination of Sewage/Trade Effluent,

1. Name and Address of the Unit

M/s Manoharpur Iron Ore Mines,

At- Chiriya, Dist- West Singhbhum.

Point of Collection 2.

U/S Hamsadaga Nallah

3. Date and Time of Collection

09.07.2019 at 01.30 PM

4. Collected By

5. Sample Source Regional Office-Cum Laboratory, Jsr. Nallah Water

St.	D. PARTICULARS	VALUE	
1		VALUE OBTAINED	
1.	Temp A/W	The second secon	
2.	νΗ	24.2/22.5	
3.	POD2 - 4	7.28	
1	BOD3 mg/lt	3.0	
7,	COD mg/lt	12.0	
),	Total Solid	14.0	
j	Total Suspended Solid	328.0	
	Total Dissolve Solid	36.0	
	Total Dissolve Solid	292.0	

Remarks :-

(Analyst)

(Lab. Incharge) Jamshedpur,

(Regional Officer) Jamshedpur.

(Board Analyst)

