



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED

भिलाई इस्पात संयंत्र
BHILAI STEEL PLANT

Regd.

No. Mines/IOC/RMM/Safety/36/18/ 52/
Date: 20 / 08 /2018.

From

Mine Manager
Rajhara Mechanised Mine
P.O.Dalli- Rajhara
Distt. Balod (C.G.) 491-228

To,

The Member Secretary
Chhattisgarh Environment Conservation Board
Paryavas Bhavan,
North Block,
Sector-19
Naya Raipur (CG) 492002

Regional Officer
Chhattisgarh Environment Conservation Board,
5/32, Bunglow ,Bhilai (C.G.)

Sub: Environmental statement in respect of Rajhara Mechanised Mine for the
Financial Year ending 31st March 2018.

Sir,

Please find enclosed the Environment Statement in respect of Rajhara
Mechanised Mine for the Financial Year ending 31st March 2018.

Thanking you,

Yours faithfully
For Steel Authority of India Limited
Bhilai steel Plant

(Signature)
20/08/2018

(Jay Prakash)
Mine Manager
Rajhara Mechanised Mine

Copy to : DGM (Env) MVTC Raj

FORM V
(See Rule 14)

Environmental statement for the Financial Year ending 31st March 2018.

PART - A

(1) Name and address of the occupier of the industry operation or process.

Shri Jay Prakash
Dy. General cum Mine Manager
Rajhara Mechanised Mine
P.O. Dalli-Rajhara
Distt. Balod (C.G.) 491-228

(2) Production Capacity –Units: 4.50MT/a (Ore Processing)

(3) Year of establishment : 30-10-60.

(4) Date of last Environmental Statement submitted:

PART – B

Water and Raw material consumption

(1) Water consumption M³ /Day

Process – 3124.521M³ /Day
Cooling – 846.904 M³ /Day
Domestic - 238.060M³ /Day

Name of Products	Process water consumption per unit Product out-put	
	During the previous financial year	During the current financial year
(1)	(2)	(3)
Iron Ore	Nil	Nil

(2) Raw Material Consumption: 3427954.78T.

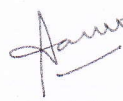
Name of Raw Materials	Name of Products	Consumption of Raw material per Unit	
		During the previous financial year (16-17)	During the current financial year (17-18)
Iron Ore	Lumps	0.36T ROM/T. Lump	0.38 T ROM/T. Lump
	Fines	0.64T ROM/T. Fines	0.62 T ROM/T. Fines

Total Production 1.00 T

1.00 T

Dry Circuit Plant with no waste product.

No other Raw Material used.


Mine Manager
Rajhara Mech. Mine

PART – C

Pollution discharged to environment / unit of out put.

(Parameter as specified in the consent issued)

Pollution	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges. (Mass/volume)		Percentage of variation from prescribed standard with reasons.
(A) Water	<u>Suspended solid</u> Avg.	<u>Min</u>	<u>Max mg/L</u>	<u>Norm 100 mg/L</u>
	Quarter ending Sept 2017	29.00	41.00	
	Quarter ending Dec 2017	21.00	31.00	
	Quarter ending March 2018	29.00	31.00	
Only Cooling water is discharged				
(B) Air	None. (Only fugitive emissions due to localised equipment operations)			

PART – D

HAZARDOUS WASTE

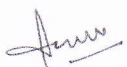
(As specified under Hazardous Wastes, (Management and Handling) Rules, 1989.)

Hazardous Wastes	Total quantity (Kg)	
	During the previous financial year (16-17)	During the current financial year (17-18)
(a) From Process	14500Ltrs.	7200 Ltrs.
(b) From pollution control facilities	Not Applicable	Not applicable

PART – E

SOLID WASTES

	Total quantity (Kg)	
	During the previous financial year (16-17)	During the current financial year (17-18)
(a) From Process	17,10,013 Tonnes (Waste /OB)	40,42,430.70Tonnes(Waste/OB)
(b) From pollution Control facilities	Not Applicable	Not applicable
(c) (1) Quantity recycled or re- utilised with in the unit.	The Waste rock is not used in any other operation.	
(2) Sold	Nil	Nil
(3) Disposed	Nil	Nil


 Mine Manager
 Rajhara Mech. Mins

PART - F

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

- 1) Hazardous Waste - Used oil deposit in Rajhara store, sent to Bhilai authorised Licensee for recycling /disposal
- 2) Solid waste - Waste Rock: Comprising of BHQ, Shales & Phyllites Dumped in separate approved dump yard under lain by non- ore bearing area.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- 1) The pollution control measures used in the mine were incorporated in the operating system. An effective Dust suppression measure exists.
- 2) Intangible improvements in the operational productivity & Crew comfort and very good environment standards maintained in the residential township of the mines beside that in the operation area.

PART- H

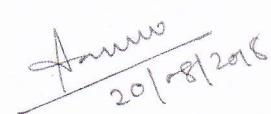
Other measures for environmental protection abatement of pollution, prevention of pollution. Direct/ indirect means taken for resource conservation & pollution prevention at Rajhara.

1. Use of timers on all principal illumination units.
2. Capacitor banks installed at MSDS for improving the power factor.

PART -I

Any other particulars for improving the quality of the environment.

- 1) Regular use of pressurised 28 Kl Water sprinklers on haul roads for dust suppression.
- 2) Use of spray mist system at all transfers points & hoppers in C & S Plant for dust suppression.
- 3) Wet Drilling.
- 4) Reduction idle hours of Elect & Diesel Machine
- 5) Moreover 2200 nos plantations have been done in 2017-18 in 5.00 Hect. In mining lease area.


20/08/2018
Mine Manager
Rajhara Mechanised Mine
Mine Manager
Rajhara Mech. Mine