



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रॉ मटेरियल्स डिवीज़न
RAW MATERIALS DIVISION

Letter No.: BOM/ENV/HD 1209

Date : 12/09/18

To

The Member Secretary,
State Pollution Control Board,
Paribesh Bhawan, A/118, Nilkantha Nagar, Unit - VIII,
Bhubaneswar 751 012, Odisha


Sub: Submission of Environment Statement for the year 2017-18

Dear Sir,

Please find enclosed herewith the Annual Environment Statement of Bolani Ores Mines (5.10 sq. miles MI. & 6.90 sq. miles ML) for the period of Apr'17 to Mar'18 in Form-V as per the prescribed format of SPCB, Odisha. The report also contains the updated status of environmental monitoring reports for air and water pertaining to the above period.

Thanking you,

Yours Faithfully,


12.9.18
General Manager

Bolani Ores Mines

डॉ. देवानकर / D. DEYSANKAR
महाप्रबंधक (खन) / General Manager (Mines)
बेल - आर एम डी - बोलाणी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलाणी-758 037, केजहार, ओड़ीसा
Bolani-758 037, Keonjhar, Odisha

Encls. : As Above

Copy to:

- (1) Regional Officer, State Pollution Control Board, Keonjhar
- (2) Office Copy

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड, रॉ मटेरियल्स डिवीज़न, बोलाणी अयस्क खदान, पोस्ट : बोलाणी - 758037 जिला - केजहार, उड़ीसा
Steel Authority of India Ltd. Raw Materials Division, Bolani Ores Mines, PO. : Bolani - 758037, Dist : Keonjhar, Odisha
दुराभाष / Telephone : 06767 - 260211 (O) फैक्स / Fax : 06767-260172, Mobile : +91 8986881005
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ENVIRONMENTAL STATEMENT
Year : 2017-18
BOLANI ORES MINES



STEEL AUTHORITY OF INDIA LIMITED
RAW MATERIALS DIVISION
BOLANI ORES MINES
KHEONJHAR (DIST.)
ODISHA – 758037

September, 2018

FORM – V

Environmental Statement for the financial year ending 31st March 2018

PART – A

- (i) **Name and address of the owner/occupier of the industry operation or process.** : Bolani Ores Mines
P.O- Bolani,
Dist. : Keonjhar
Pin- 758037, Odisha
- Agent** : Shri P Saidev,
ED I/c, RMD
- Nominated Owner** : Shri H N Rai,
Director (Technical)
- (ii) **Industry category Primary - (STC code) Secondary - (SIC Code)** : Open Cast Iron Ore Mine
- (iii) **Production capacity** : **From 5.10 sq. miles ML**
Permitted capacity : 12 MTPA
Total ROM : 5,256,201 T
Lumps : 2,022,205 T
Fines : 3,214,466 T
Total Finished product : 5,236,671 T
- From 6.90 sq. miles ML**
Mining activity not commenced in this ML.
- (iv) **Year of establishment** : 1960
- (v) **Date of the last environmental statement submitted** : 09.10.2017

PART – B

Water and Raw Material Consumption

(1) Water consumption	m³/day
Process	571
Cooling	684 (including dust suppression)
Domestic	888

<i>Name of Products</i>	<i>Process water consumption per unit of product output</i>	
	<i>During the previous financial year (2016-17)</i>	<i>During the Current financial (2017-18)</i>
(1) Washed Iron Ore	0.42 m ³ /Ton of ROM washed	0.087 m ³ /Ton of ROM Washed

(2) 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 (2015-16)</i>	<i>During the Current financial (2016-17)</i>
-	-	-	-

This is an opencast mine producing iron ore. As such, no raw material from outside is required for processing of iron ore. Run-of-Mine (ROM) from the mine is processed to produce sized ore products. The ROM production during 2016-17 is 5.68 million tonnes and during 2017-18 is 5.26 million tonnes.

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.</i> <i>Standard</i>
<p>1. Process Effluent: The effluent generated from ore washing process is being treated in thickeners. The clear water from the thickeners is being recycled back and the under flow slurry is being discharged to the Tailings Pond. Though there is no direct discharge from the Tailing Pond, seepage from dam body is being discharged. The same is being monitored. The annual average quality of tailing dam seepage is follows:</p>			
(i) pH	-	6.87 at 25 ⁰ C	5.5 - 9.0
(ii) TSS	-	30.0 mg/l	100 mg/l
(iii) Oil & Grease	-	<1.40 mg/l	10 mg/l
<p>2. Domestic Effluents : No Domestic effluents are discharged to Natural Streams. The domestic effluent generated from the township is directed to Soak pits via intermediate septic tanks.</p>			
(i) pH	-	7.15 at 25 ⁰ C	5.5 - 9.0
(ii) TSS	-	34.0 mg/l	100 mg/l
(iii) BOD	-	2.8 mg/l	30 mg/l
(iv) COD	-	12.0 mg/l	250 mg/l
(v) Oil & Grease	-	<1.40 mg/l	10 mg/l