

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/SNG/MCDR-11/BBS

Mine code : 300RI13011

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri H.S.Biswal, Sr.Manager (Geology),
Official with
Designation
- (iv) Date of Inspection : 24/05/2015
- (v) Prev.inspection date : 20/08/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NADIDIH**
- (b) Category : A Fully Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : NADIDIH
Taluka : BONAIGARH
Post office : GUALI(VIA)BARBIL
Pin Code :
FAX No. : 06767-276161
E-mail : rungta_bbl@yahoo.com
Phone : 06767-275221/277441/277481,
- (e) Police Station :
- (f) First opening date : 22/10/1967
2. Address for : NADIDIH IRON &MN MINE
correspondance VILL-NADIDIH,PO-GUALI.DIST-SUNDERGARH
ORISSA. 758035
3. (a) Lease Number : ORI0126
- (b) Lease area : 73.86
- (c) Period of lease : 20
- (d) Date of Expiry : 10/12/1987
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : BONAI INDUSTRIAL COMPANY LTD
P.O.BARBIL KEONJHAR
ORISSA
Phone:06767-30221
FAX :

Owner : M D RUSTAGI, NOMINATED OWNER
RUNGTA OFFICE,MAIN ROAD,
BARBIL AT/PO- BARBIL,DIST-
KEONJHAR SUNDARGARH ORISSA
Phone:
FAX :

Agent : D.R.OJHA
C/O BICO LTD AT O.P.BARBIL
KEONJHAR ORISSA
Phone: 06596-62321,62221
FAX :

Mining Engineer

Name : LAKHAN SAW,Full Time
Qualification : AMIE (MINING) DIGRE IN MINING ENGG
Appointment/ : 26/05/2011
Termination date

Geologist

Name : TANMAY PANDA,Full Time
Qualification : MSC GEOLOGY
Appointment/ : 01/06/2011
Termination date

Manager

Name : GANESH SAH
Qualification : AMIE (MINING) 1ST CLASS CERTIFICATE
Appointment/ :
Termination date

6. Date of approval of Mining : 25/02/2010
Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS**1. Details about Average employment :**

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	10	305
Supervisory	15	305
Others	10	305
Plant	2	305
Workers	21	305
CONTRACT		
Others	57	305

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Water supply				7.20	Expenditures as
Sanitation				20.40	
Health		8.88		1.60	
Sub total		8.88		29.20	
Infrastructure					
Public transport			8.60	107.90	
Sub total			8.88	107.90	
Employment					
				0.03	
Others					
			8.60	0.07	
Training					
			0.02		
Recreation					
			0.02	0.06	
Total					
			26.12	137.26	

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

After last inspection on 12.08.2014, No Violation was pointed out.

During current inspection, Violation of rule 13(1) was observed and being communicated to the party.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Not being recommended at present

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

b.Total area covered : 6 nos	Nil	Mine working reported discontinued /suspended from 18.05.2014 to 13.05.2015 due to pending RML.
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B. Working (Rule 13)

b.Bench size(LxWxH)length can be defined as regular/irregular	: Height-8m, Width- 8-12m	Height-8m, Width- 8-12m	
c.Ore to waste ratio : 1:0.18 (MT : m3) pit wise if possible otherwise for mine		1: 0.05 (MT :	
a.Number and size of : 2 nos each pit (LxWxH)		02 nos	
d.Total area covered : Not specified for under excavation/pits a year		About 34 Ha. (Cumulative)	

C. Waste disposal (Rule 13)

a.Location of dumps : Back filling at S760 S 880 E150 E350	No backfilled	Mine working reported discontinued /suspended from 18.05.2014 to 13.05.2015 due to pending RML.
b.Method of dumping : Retreating whether advancing/retreat	Retreating	
c.Total area covered : 11.94 ha (at the under waste dump. end of the scheme period 2017-18)	About 12.5 Ha	Ore recovery from dump screening is proposed, that will result in reduction of dump area
d.No.and size of each : One no. waste dump with No of steps/lift/bench	One no.	
e.Yearly generation : 510309m3 of waste quantity.	13164 m3 or 32911.35 te	Dumped in dump-A.

<u>PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015</u>		
Mineral	Production	Unit
IRON ORE	257472	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : Total ore which is produced in the mines is processed by dry crushing & screening

Efforts for improving percentage of recovery of ore. : By Sorting & screening

Mineral Rule 15

Percentage of recovery of ore : 88 .66 % of total material pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : : Ore : 5 benches & Waste:3 benches in Top-2 Quarry and Ore : 5 benches & Waste:1 benches in Boundary Pit.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Nil during 201-15

Number and size of each stack : 2 Nos.

Location of stacking. : W 600 to W 300 & S120 to S380, S550 to S750 W580 to W500

Separate stacking from waste : Yes

Total area covered for stacking : 8.438 Ha.

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated

Utilised

Stacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The lease area consist of undulated land with few hillock.
- c. Soil and land use pattern : Top soil generation is nil.
- d. Agriculture : No agricultural land within lease area.
- e. Forest(flora and fauna) : Common species.
- f. Vegetation : Mainly bushes and shrubs.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Nil

B Water environment.

- a. Surface water : The nearest surface water source is Karo River which flows on the western side of the mine and is about 0.3 km from outside the mining lease area.
- c. Quality of water : being monitored.
- b. Ground water : Source of ground water in the area is dug well & tube wells.

C. Air environment

- a. Noise : The noise level is being monitored ; under prescribed limit.
- b. Air : The air pollution is minimized by sprinkling of water on haul roads & using wet drilling technique
- c. Climatic condition : The maximum temperature goes upto 450C in the month of May and it falls down upto 50C in the month of December.

D. Socio economic environment

- a. Social and demographic profile. : Most of the people in the area depend upon agriculture. The mining lease has given job opportunity directly/ indirectly to locals.
- b. Recommending health and safety. : Reportedly Health checks up camps are being organized and medicines are being provided to employees & locals.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

Water Management					Value	
Season	Station type	Station name	Parameter		Actual	Excess

Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2014 - 2015

Area in Hect.

TOP SOIL MANAGEMENT

Quantity as on 31/03/2015

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

A. R. 2014-15 has not been submitted till the date of inspection, due date of submission is up to 1st july'2015.

Scrutiny of AR 2013-14 was carried out during last inspection on 12.08.2014.

PART - III : PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years - as per guidelines)

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

Nil

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

As per the lease plan, a portion of the Barbil -Koirā road is within the lease area near boundary pillars F2 & G. Whereas at the site the lease is situated away from the Barbil -Koirā road.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines