

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-12/BBS/13/01

Mine code : 30ORI13018

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : T.C Sei (Agent and GM),
Official with
Designation
- (iv) Date of Inspection : 04/08/2015
- (v) Prev.inspection date : 17/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKELA**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : RAIKELA
Taluka : BONAI
Post office : DENGULA
Pin Code :
FAX No. : 06767- 275362
E-mail : snmbbsr@sify.com / snmbbl@
Phone : 36767-212164 / 277530
- (e) Police Station : koira
- (f) First opening date : 03/04/1982
2. Address for : RAIKELA IRON MINES OF S.N.MOHANTY
correspondance AT-RAIKELA
PO-PENGULA ,DIST-SUNDERGARH
3. (a) Lease Number : ORI0149
(b) Lease area : 18.15
(c) Period of lease : 30
(d) Date of Expiry : 02/04/2012
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : S.N.MOHANTY
 STATION ROAD AT/PO:BARBIL
 PO NO.21 KEONJHAR ORISSA
 Phone:30362 (OFFICE),30254(R)
 FAX :

Owner : PROBODH MOHANTY
 PROBODH MOHANTY,MINES OWN
 AT-STATION ROAD,BARBIL
 DIST-KEONJHAR.758035
 KEONJHAR ORISSA
 Phone:
 FAX :

Agent : T.C.SEI
 M/S BISRA STONE LIME CO LTD
 BIRAMITRAPUR SUNDARGARH
 ORISSA
 Phone:
 FAX :

Mining Engineer

Name : LALIT KUMAR BEURIA,Full Time
 Qualification : BACHLOR ENGG
 Appointment/ : 19/05/1997
 Termination date

Manager

Name : P.N.NAIK
 Qualification : PERMIT MANAGER
 Appointment/ : 03/12/1996
 Termination date

6. Date of approval of Mining :
 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	2	306

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	0.00	0.00		2.40	Inside and Outsi
Health	0.00	0.00		2.30	Inside and Outsi
Housing	0.00	0.00		15.30	Inside and Outsi
Sub total	0.00	0.00		20.00	
Infrastructure					
Public transport	0.00		0.00	3.75	Inside and Outsi
Sub total	0.00		0.00	3.75	
Training	0.00		0.00	1.60	Inside and Outsi
Recreation	0.00		0.00	0.53	Inside and Outsi
Total	0.00		0.00	25.88	

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

No outstanding violation.

During current inspection violation of rule 24(1) of MCDR, 1988 was observed and same was communicated to party wide this office letter No. ORI/IRON/SNG/MCDR-12/BBS dated 12/08/2015.

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, 19888, if recommended.

Not applicable.

5. Scientific Mining

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

a.Type of prospecting : 2014-15: NIL and exploration i.e. pitting, drilling	2014-15: NIL	2014-15: NIL	Mining operation under suspension.
b.Total area covered : Not specified.	Not specified.	Not specified.	

B. Working (Rule 13)

a.Number and size of : Not specified. each pit (LxWxH)	Not specified.	300 M X 100 M X50 M	Mining operation under suspension since April 2012.
b.Bench : regular. size(LxWxH)length can be defined as regular/irregular	irregular.	irregular.	Mining operation under suspension since April 2012.
c.Ore to waste ratio : 2014-15: 1:0.096 pit wise if possible (t/m3) otherwise for mine	2014-15: 1:0.096	2014-15: NIL	Mining operation under suspension since April 2012.
d.Total area covered : 7.75 Hectare. under excavation/pits	7.75 Hectare.	5.11 Hectare.	Mining operation under suspension since April 2012.

C. Waste disposal (Rule 13)

a.Location of dumps : Southern part of the lease area.	No waste was generated since April 2012, as mining operation was under suspension.		
e.Yearly generation : 2014-15:16320 m3 of waste quantity.	2014-15:16320 m3	2014-15: NIL	Mining operation under suspension since April 2012.
b.Method of dumping : Not specified. whether advancing/retreat	No work during 2014-15.		
c.Total area covered : 0.55 hectare. under waste dump.	0.55 hectare.		No work during 2014-15.
d.No.and size of each : 2 dumps. waste dump with No of steps/lift/bench	2 dumps.		

D. Production

b.Year wise : 2014-15: 171000 MT	2014-15: 171000 MT	2014-15: NIL	
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production of last
five year.

D. Reserve

a. Reserve position as : Reserve and
per latest MP/MS and resource as per
at the time of approved Mining
inspection. plan is as
follows:

RESERVE POSITION AS ON 01/04/2015

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	3101625	+58% Fe
Probable	348750	+58% Fe
Possible	374625	+58% Fe
Total	3825000	+58% Fe

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	0	TON

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

Efforts for improving low grade and sub grade mineral. : Mining operation under suspension.

Efforts for improving percentage of recovery of ore. : Mining operation under suspension.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : Recovery is proposed to be 75 % of total excavation. However no mining activity has been carried out in FY 2014-15.

Number of benches in ore and waste. : ORE:1
WASTE :2

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : NIL.

Number and size of each stack : NIL.

Location of stacking. : NA.

Separate stacking from waste : NA.

Total area covered for stacking : NA.

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
12		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	0
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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. : Hilly undulated.
- b. Aesthetic environment : Good.
- c. Soil and land use pattern : Lateritic Soil cover is observed.
Landuse: As Mining plan approved on 27.02.2012.
Mining: 5.11 Ha.
Dumping and overburden: 0.55 Ha.
Storing of Minerals: 0.227 Ha.
Infrastructure: 0.10 Ha.
Road: 0.80 Ha.
Afforestation: 0.50 Ha.
- d. Agriculture : Not observed.
- e. Forest(flora and fauna) : Local species of Flora and fauna.
- f. Vegetation : Not observed.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Not observed.

B Water environment.

- a. Surface water : No source of surface water was observed. However, some rain-cuts have been observed. As the mining operation in lease area is suspended, hence no adverse impact on surface water.
- b. Ground water : Not obsreved.
- c. Quality of water : Seems to be potable.

C. Air environment

- a. Noise : Not Applicable as mining operation in lease area is suspended.
- b. Air : Not Applicable as mining operation in lease area is suspended.
- c. Climatic condition : Tropical.

D. Socio economic environment

- a. Social and demographic profile. : Local people will be engaged in mine after resumption of mining operation.
- b. Recommending health and safety. : Not Applicable as mining operation in lease area is suspended.
- c. Human settlement : Not observed.
- d. Recreational facility. : Not Observed.

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.

Season	Station type	Station name	Parameter	Actual	Excess
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Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2014 - 2015

<u>Within lease area</u>			<u>Outside lease area</u>			Area in Hect.
<u>Area</u>	<u>Trees planted</u>	<u>Survival rate</u>	<u>Area</u>	<u>Trees planted</u>	<u>Survival rate</u>	
80	6000					

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.

Mining operations in lease area were under suspension since 27/03/2012 due to want of Forest clearance.

However, Scrutiny of annual return 2014-15 is as follows.

Production: NIL

Pit Mouth value: NIL

Sale Value: NIL

Reserve: 3.45 million Tonnes

Resorce: 0.375 Million Tonnes

Value of fixed assets: 3003615 Rs.

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.)

NIL.

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

NIL.

Date :

(DILIP JAIN)

Indian Bureau of Mines