

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-6/BBS

Mine code : 300RI13034

- (i) Name of the Inspecting : **S024**) **DR. M K SOMANI**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr. B.B.Sahoo, (DGM)
Official with
Designation
- (iv) Date of Inspection : 14/07/2014
- (v) Prev.inspection date : 07/06/2012

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKELA**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RAIKELA
- Taluka : BONAI
- Post office : DENGULA
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 06767-30896
- (e) Police Station :
- (f) First opening date : 23/08/1993
2. Address for : VILL. RAIKELA, PO DENGULA
correspondance POLICE STATION. KOIRA DIST. SUNDERGARH
ORISSA, PIN-770048 PHONE. 30896
3. (a) Lease Number : ORI0143
- (b) Lease area : 67.59
- (c) Period of lease : 20
- (d) Date of Expiry : 01/07/2011
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : G.R MOHANTY
 AT/PO BARBIL KEONJHAR
 ORISSA
 Phone:06767-30520, 30795, 30895
 FAX :

Owner : SRINIVAS SAHOO
 AT/PO. STATION ROAD BARBIL
 KEONJHAR ORISSA
 Phone: 06767-75896
 FAX : 06767-75896

Mining Engineer

Name : B.B. SAHOO, Full Time
 Qualification : A.M.I.E MINING
 Appointment/ : 16/08/2001
 Termination date

Mining Engineer

Name : P.K.SAHOO, Full Time
 Qualification : AMIE MINING
 Appointment/ : 03/09/2002
 Termination date

Geologist

Name : P.K.PARIDA, Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 03/11/1994
 Termination date

Manager

Name : MAHESWAR ROUT
 Qualification : PERMIT COMPETANCY FROM DGMS.
 Appointment/ :
 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		
Workers	66	305
Managerial	5	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					
Infrastructure					
Sub total					
Sub total					
Others	0.72		0.72	0.24	
Total	0.72		0.72	0.24	

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

VIOLATION OF RULE 13(1) POINTED OUT EARLIER NOT RECTIFIED AND THE MINE HAS BEEN SUSPENDED.

DURING THE CURRENT INSPECTION FOLLOWING VIOLATIONS HAVE BEEN OBSERVED AND POINTED OUT:

1. Rule 23: The yearly report on extent of protective and rehabilitation works carried out as envisaged in the approved Scheme of Mining has not been submitted so far for the year 2013-14 to the RCOM, IBM, Bhubaneswar.

2. Rule 27: The copies of plans and sections as required under Rule 28 have not been updated.

3. Rule 29: The copies of plans and sections as required under Rule 28 have not been submitted for the year 2013-14 so far to the RCOM, IBM, Bhubaneswar.

4. Rule 45: The following discrepancies have been observed in the Annual Return 2012-13.

i) The beneficiation details not given.

ii) PMV not mentioned.

iii) Fixed asset column not filled in.

iv) ROM production figures not given correctly

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 RECOMMENDED.

5. Scientific Mining

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

a.Type of prospecting : Drilling-10 nos and exploration i.e. holes pitting, drilling	0		cumulative -- 2778.45 mtr
b.Total area covered : 0	0		

B. Working (Rule 13)

a.Number and size of : 700x200x95, each pit (LxWxH)	700*200*91M		
b.Bench : 12x8M size(LxWxH)length can be defined as regular/irregular	12x8M		
c.Ore to waste ratio : 1: 0.18 pit wise if possible otherwise for mine	0		
d.Total area covered : 29.893 HA under excavation/pits	29.893 HA		

C. Waste disposal (Rule 13)

a.Location of dumps : 2400E-1600N	NA		
e.Yearly generation : 25552 Cum of waste quantity.	0		
b.Method of dumping : advancing whether advancing/retreat	advancing		
c.Total area covered : 3 Ha under waste dump.	2 Ha		
d.No.and size of each : 1 no ,size- waste dump with No of 200x100x20 steps/lift/bench	NA		

D. Production

b.Year wise production of last five year.	: Approved mining plan/ scheme 2009-10 862680 2010-11 863655 2011-12 1207296 2012-13 1207992 2013-14 1536355	428180.000 863364.000 304250.000 36500.000 0	MINE IS SUSPENDED BY IBM
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D. Reserve

a.Reserve position as : per latest MP/MS and at the time of inspection.	Proved		
		Probable	
	Qty. t	Grade	
		Qty. t	Grade

33907458 + 45 % & above

6999380 + 45 % & above

RESERVE POSITION AS ON 01/04/2014**IRON ORE**

Category	Quantity in Tonnes	Grade
Proved	33907458	+ 45 % & above
Probable	6999380	+ 45 % & above
Possible		
Total	40906838	+ 45 % & above

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

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. : By screening mechanically.

Efforts for improving percentage of recovery of ore. : By screening above 3 mm size iron ore is recovered.

Mineral Rule 15

Percentage of recovery of ore : 100%
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : benches in ore -11 nos(ore) and waste NIL

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : 1203460.000Tonnes Less than 55% Fe

Number and size of each stack : FOUR STACKS:
LG/1-180x80x5,
LG/2-60x40x10,
LG/3-150x60x10,
LG/4-200x120x10

Location of stacking. : 1800E-1500N, 1800E-1300N, 2100E-800N, 2400E-1400N

Separate stacking from waste : YES

Total area covered for stacking : 4.98 Ha

Exploration data as on 31/03/ 2014

No. of Boreholes	No. of Pits	No. of Trenches
84		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

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. :
- b. Aesthetic environment : Plantation in and around office and temple.

D. Socio economic environment

- a. Social and demographic : More than 90% employees are from the local villages .
profile.

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.

<u>Water Management</u>				
Season	Station type	Station name	Parameter	Value Actual Excess

<u>Air data for excess parameters</u>				
Season	Station name	Type of area	Parameter	Value Actual Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>	<u>2013 - 2014</u>
	Area in Hect.

<u>TOP SOIL MANAGEMENT</u>
Quantity as on 31/03/2014

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

- (1) Cost of operation -Mines not working
- (2) Reserve -34248208 (proved)
- (3) Production -Nil
- (4) Pit's Mouth Value-Nil
- (5) Stock-1285178.170
- (6) Land use pattern-Opencast working-28.982Ha,waste disposal-2.0Ha,bulding,plant,road etc-4.79Ha ,safety zone-2.523Ha,mineral storage-3.05Ha

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.)

NONE

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

NONE

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

NONE

Date :

(DR. M K SOMANI)

Indian Bureau of Mines