

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-22/BBS

Mine code : 30ORI13054

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri A Mishra, GM, Shri Dilip Patnaik
Official with
Designation
- (iv) Date of Inspection : 16/10/2015
- (v) Prev.inspection date : 31/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PATABEDA IRON (14 HA)**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (e) Police Station : KOIRA
- (f) First opening date : 09/04/2006
2. Address for : M/S M.G.MOHANTY, POST BOX NO. 17, BARBIL,
correspondance DIST. KEONJHAR- 758 035 (ORISSA)
3. (a) Lease Number : ORI0978
(b) Lease area : 14
(c) Period of lease : 20
(d) Date of Expiry : 07/03/2026
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S.M.G.MOHANTY
 R.L.MOHANTY, MANAGING PAR
 AT/PO.BARBIL,KEONJHAR,
 ORISSA.-758035 KEONJHAR
 ORISSA
 Phone:06767-75318
 FAX :06767-75770

Owner : M.G.MOHANTY
 PB-17,PO.BARBIL,KEONJHAR
 ORISSA. KEONJHAR ORISSA
 Phone: 06767-30318
 FAX : 06767-30770

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
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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					
Total					

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

No outstanding violations. during current inspection no violation was observed.

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 : 3 bore holes and exploration i.e. pitting, drilling
4 bore holes, 101 meterage.

B. Working (Rule 13)

c.Ore to waste ratio : 1:0.10
pit wise if possible
otherwise for mine
1:0.08

b.Bench : Height- 6 meters
size(LxWxH)length can Width- 8 meters
be defined as
regular/irregular
Height- 6 meters
Width- 8 meters

d.Total area covered : 2.12 Ha
under excavation/pits
2.12 Ha

C. Waste disposal (Rule 13)

a.Location of dumps : S-W side of the lease

b.Method of dumping : Retreating method
whether
advancing/retreat
Retreating method

c.Total area covered : 0.62 Ha
under waste dump.
0.62 Ha

e.Yearly generation :
of waste quantity.
2260 Tonnes

RESERVE POSITION AS ON 01/04/2015

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	623062	+65%Fe
Probable	7778	+55Fe
Possible	247674	+55Fe
Total	878514	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	38500	TON

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

Efforts for improving low grade and sub grade mineral. : Blending with high grade mineral.

Mineral Rule 15

Number of benches in ore and waste. : 02 benches in ore, 0/B -Nil

Percentage of recovery of ore pitwise w.r.t. ROM and total material : About 90 % of total material

Sub/grd mineral/fines (Rule16)

Location of stacking. : Western side of pit

Separate stacking from waste : Yes

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
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OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	2260
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Utilisation of Sub Grade Mineral and Mineral Rejects

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)
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7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : The entire area is gently slope towards west.
- b. Aesthetic environment : In the lease area the aesthetic environment is good.
- c. Soil and land use pattern : Land use pattern:
- | Under forest | Outside forest | Total |
|--|----------------|-------|
| (i) Covered under current (O/C) workings | 2.122 | 0 |
| 2.12 | | |
| (ii) Used for waste disposal | 0.62 | 0 |
| 0.62 | 0 | 0.62 |
| (iii) Occupied by plant, buildings, residential, welfare buildings & roads | | 2.069 |
| 2.07 | | 0 |
| (iv) Used for any other purpose (specify) | | |
| Safety Zone and Green Belt | | 1.942 |
| 1.942 | | 0 |
- d. Agriculture : No agricultural land within lease area
- e. Forest(flora and fauna) : Common flora & fauna in the core zone.
- f. Vegetation : The entire area is mostly open with few trees & shrubs.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Nil within lease area

B Water environment.

- a. Surface water : Surface water samples being collected and analyzed and are within permissible limit
- b. Ground water : Ground water not intersected yet by mining
- c. Quality of water : Potable

C. Air environment

- c. Climatic condition : Sub tropical

D. Socio economic environment

- a. Social and demographic profile. : Main villages within the buffer zone are tribals dominated.
- b. Recommending health and safety. : Regular IME, PME & health camp biing organized.
- c. Human settlement : Nil within lease area

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	<u>Water Management</u>	
			Parameter	Value Actual Excess

Air data for excess parameters

Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

PLANTATION DURING THE PREVIOUS YEAR 2014 - 2015

Within lease area			Outside lease area			Area in Hect.
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate	
.25	400	42	1	2192	77	

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.

2014-15

- (1) Cost of operation : 1441.96, (Rs/Ton)
 (2) Reserve : 111 - 623062.00 T, 121 & 122- 7778 T,
 211-104332 T, 221 & 222- 3058 T and 332- 140284 T
 (3) Production : 38500.00 (ROM)
 (4) Pit's Mouth Value:
 Lump- 60% to below 62% - Rs. 2979.39
 62% to below 65% - Rs. 4366.52
 65% and above - Rs. 4178.68
 Fines- Below 55% - Rs.700
 60% to below 62%- Rs. 2215.34
 62% to below 65% - Rs. 2421.38
 (5) Stock : 22994.588 Tonnes

(6) Land use pattern:

			Under forest	Outside forest
Total				
(i) Covered under current (O/C) workings	2.122	0	2.12	
(ii) Used for waste disposal			0.62	0 0.62
(iii) Occupied by plant, buildings, residential, welfare buildings & roads	2.069	0	2.07	
(iv) Used for any other purpose (specify)				
Safety Zone and Green Belt	1.942	0	1.942	

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.)

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

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines