

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-12/BBS

Mine code : 30ORI08010

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Rakesh Kumar, DGM Mines, Shri P K Naik, Manager
Official with
Designation
- (iv) Date of Inspection : 06/08/2015
- (v) Prev.inspection date : 11/08/2010

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHADRASAI**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : ROIDA
- Taluka : BARBIL
- Post office : ROIDA
- Pin Code : 758035
- FAX No. : 06767-75379
- E-mail : omdtctk@dte.vsnl.net.in
- Phone : 06767-75218
- (e) Police Station :
- (f) First opening date : 08/11/1941
2. Address for : BHADRASAI MANGANESE MINE, M/S BPME LTD
correspondance P.O.THAKURANI, VIA BARBIL
DIST:KEONJHAR, ORISSA-758035
3. (a) Lease Number : ORI0174
- (b) Lease area : 254.95
- (c) Period of lease : 20
- (d) Date of Expiry : 19/09/2006
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S.BPME Ltd
 Chartered bank building
 Calcutta KOLKATA WEST
 BENGAL
 Phone:033 2200308
 FAX :033 2202776

Owner : M/S.BPME LTD
 CHARTEDBANK BUILDING 4 NSC
 ROAD KOLKATA-1 KOLKATA WEST
 BENGAL
 Phone: 033 2200308
 FAX : 033 2202776

Agent : Sri.S.K.Panda
 C/O.BPME
 P.O.Thakurani,Barbil
 Keonjhar KEONJHAR ORISSA
 Phone: 06767 - 75218,76131,75379
 FAX : 06767-75530

Mining Engineer

Name : S.K.MUKHERJEE,Full Time
 Qualification : AMIE(MINING)
 Appointment/ :
 Termination date

Geologist

Name : P.K.NAIK,Full Time
 Qualification : M.Sc (GEOLOGY)
 Appointment/ :
 Termination date

Manager

Name : M.R.SAHOO
 Qualification : DIPLOMA IN MINING & 1ST CLASS MANAGER'S
 Appointment/ :
 Termination date

6. Date of approval of Mining : 08/08/2007
 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	8	300
Supervisory	5	300
Workers	42	300
CONTRACT		
Others	20	

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					
Health	9.00	7.72	21.00	7.96	
Housing	6.00	4.54	0.00	97.65	
Medical facility	3.00	3.50	3.50	25.02	
Water supply	8.00	7.02	13.00	91.57	
Sub total	26.00	22.78	37.50	222.20	
Infrastructure					
Electricity	4.00	13.50	3.73	5.64	
Public transport	13.00	25.00	14.00	14.00	
Sub total	17.00	38.50	22.78	19.64	
Sports activities	1.00	0.60	0.60	4.38	
Training	1.00	3.00	0.07	2.13	
Total	45.00	79.60	41.18	248.35	

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 pointed out.

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 Recommended

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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B. Working (Rule 13)

a.Number and size of : 02, Iron Quarry - The mining operation
each pit (LxWxH) 550X530 Mtrs suspended from
- 08.02.2010 for want of
415X340Mtrs. statutory clearances.
02 Mn Quarry-
540X125Mtrs.
-
365X265Mtrs.

d.Total area covered : Iron Quarry -
under excavation/pits 291500Sq. Mtrs.
-141100Sq.
Mtrs.
Mn Quarry-67500Sq.
Mtrs.
-96725Sq. Mtrs.

C. Waste disposal (Rule 13)

c.Total area covered : Iron-4.932 Ha No mining Operation
under waste dump. Mn-3.367Ha

e.Yearly generation : Iron-306100 cum Nil
of waste quantity. Mn-239,960cum

D. Reserve

a.Reserve position as : In million
per latest MP/MS and tonnes
at the time of
inspection. Iron
Manganese1
Proved 23.124
1.138
Probable 4.011
0.771
Possible 1.715
0.081

RESERVE POSITION AS ON 01/04/2015

MANGANESE ORE		
Category	Quantity in Tonnes	Grade
Proved	1138000	
Probable	771000	
Possible	81000	
Total	1990000	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
MANGANESE ORE	0	TON

6. Conservation of Mineral - both quantitative and qualitative**Minearl Rule 15**

Percentage of recovery of ore : 70%
 pitwise w.r.t. ROM and total
 material

Number of benches in ore and : 2 in Iron ore
 waste. 2 in Mn. Ore

<u>Exploration data as on 31/03/ 2015</u>		
No. of Boreholes	No. of Pits	No. of Trenches

<u>OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015</u>
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<u>Utilisation of Sub Grade Mineral and Mineral Rejects</u>			
Generated	Utilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Mining lease area is Hilly terrain consist of both Forest and Non forest land.
- c. Soil and land use pattern : Soil sample collected from the lease area and analyses to know the soil type, moisture content, nutrients level and other chemical character.
- d. Agriculture : No agriculture land within ML area.
- e. Forest(flora and fauna) : The flora specis namely, Gambhari,Bandan, Karam, Mundi(common name) and fauna specis House crow,Pigeon, Rat snake, Dhamana, (common name)Toddy cat are found in this area.
- f. Vegetation : sal,teak,mangomahula etc
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : There is no such public building places and monuments

B Water environment.

- a. Surface water : Seasonal monitoring of water was carried out and are within permissible limit
- b. Ground water : Seasonal monitoring is being carried out and are within permissible limit
- c. Quality of water : Potable

C. Air environment

- c. Climatic condition : Sub-tropical climate with temperature varying from 4oC in winter (Dec / Jan) to 44oC in summer (May / June). Average annual rainfall is about 1200mm while June to September is the period with maximum rainfall.

D. Socio economic environment

- a. Social and demographic profile. : Party has taken up Various projects related to health education, drinking water supply, sanitation transportation and improving of civic facilities in 18 numbers of peripheral villages.
- b. Recommending health and safety. : There is a hospital having 06 bed capacity at Bhadrasahi Mines Roida looking after the safety and health of surrounding villagers.

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

<u>PLANTATION DURING THE PREVIOUS YEAR</u>		<u>2014 - 2015</u>		Area in Hect.	
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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) Production :2014-15 Nil

b) Cost of operation Nil

c) Pits mouth value Nil

d) Reserve

	Iron	Manganesel
Proved 23.124	1.138	
Probable 4.011		0.771
Possible 1.715		0.081

e) Stocks at mines head 34,834.230 MT (Iron), 3,298.600 MT (Iron)

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines