

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDR-27/BBS

Mine code : 400RI13052

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Atmesh Kumar Sharma, Manager Mines
Official with
Designation
- (iv) Date of Inspection : 24/05/2015
- (v) Prev.inspection date : 18/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BANDHAL**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : BANDHAL
Taluka : BONAI
Post office : DUNGULA
Pin Code : 770048
FAX No. : 275605
E-mail :
Phone : 276186
- (e) Police Station :
- (f) First opening date : 09/06/2003
2. Address for : BANDHAL MN ORE MINES
correspondance K.M& M P LTD
AT/PO-KOIRA, SUNDARGARH
3. (a) Lease Number : ORI1005
(b) Lease area : 28.02
(c) Period of lease : 20
(d) Date of Expiry : 13/03/2022
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : KANAKDHARA MINING & MINERAL (P) LTD
 AT/PO-KOIRA SUNDERGARH
 SUNDARGARH ORISSA
 Phone:27686
 FAX :

Owner : GHANASHYAM SHARMA
 AT/PO-BARBIL KEONJHAR
 ORISSA
 Phone: 276186,276712
 FAX :

6. Date of approval of Mining : 09/04/2013
 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	1	305
Others	4	305
Workers	26	305
Supervisory	2	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		0.84			Give in brief th
Health		0.25			
Sub total		1.09			
Infrastructure					
Sub total			1.09		
Recreation					
			0.03		
Training					
			0.37		
Total					
			1.49		

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

No outstanding violation. During this inspection compliance of MCDR, 88 observed satisfactory.

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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A. Exploration (Rule 13)

a.Type of prospecting : 5 No. drilling and exploration i.e. holes pitting, drilling	5 No. drilling holes	as reported during inspection, AR-2014-15 is not submitted till date.
b.Total area covered : 2 ha	2 ha	

B. Working (Rule 13)

c.Ore to waste ratio : 1:0.48 Te : m3 pit wise if possible otherwise for mine	1: 1.6 Te : m3	Ore Production & waste generation as reported during inspection
b.Bench : Wxh : 6X3 size(LxWxH)length can be defined as regular/irregular	Av. 6X3	
a.Number and size of : One pit each pit (LxWxH)	One pit	
d.Total area covered : Not specified for under excavation/pits a year	2.80 hecets. Approx.	

C. Waste disposal (Rule 13)

a.Location of dumps : Western side of Pit	Western side of Pit	
b.Method of dumping : Retreading Method whether at Dump	Retreading Method at Dump	
c.Total area covered : 0.5 hecets under waste dump.	0.5 hecets	
d.No.and size of each : 01 no. waste dump with No of steps/lift/bench	01 no.	
e.Yearly generation : 2665 m3 of waste quantity.	2665 m3	

RESERVE POSITION AS ON 01/04/2015**PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015**

Mineral	Production	Unit
MANGANESE ORE	1604.93	TON

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

Efforts for improving low grade and sub grade mineral. : Manual Screening, Sorting is being done

Efforts for improving percentage of recovery of ore. : After segregating medium grade ore, low grade ore is manually screened. The residue is again rescreened to extract under size Manganese ore.

Mineral Rule 15

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

Number of benches in ore and waste. : In Ore- 1 Bench, Waste - 3 Benches

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : 2014-15 - 235.664 MT(Below 25%Mn) as reported during inspection.

Number and size of each stack : 5 nos. of small stacks

Location of stacking. : Western side of quarry

Separate stacking from waste : Yes

Total area covered for stacking : 0.15 hectrs

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**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)
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7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The lease area is almost flat.
- b. Aesthetic environment : Road side plantation is done to improve the aesthetic view of the mines.
- c. Soil and land use pattern : Quarry-2.8 ha, OB Dump-0.770 ha, Mineral Storage-0.32 ha, infrastructure-0.50 ha, Roads- 0.5 ha, Green Belt-1.5 ha.
- d. Agriculture : There is few seasonal agricultural activity going on inside the lease area.
- e. Forest(flora and fauna) : The total lease area is non forest land.
- f. Vegetation : There is no prominent vegetation existing inside lease area except plantation.
- h. Public building, places and monuments (protected, historical), places of worship and places of tourist : No such building or structure exists

B Water environment.

- a. Surface water : One seasonal dry nalla passes through the lease area. There is rainwater harvesting pit within the lease area for conservation of water.
- b. Ground water : small scale mining; negligible impact.
- c. Quality of water : Quality of drinking water and surface water being checked quarterly and parameters are within permissible limits.

C. Air environment

- a. Noise : It is small manual mine hence noise creation is negligible . Noise analysis is being done quarterly and the results are within the permissible limits.
- b. Air : Manual mining is being followed. Hence there is negligible impact on air quality. The air quality is being tested quarterly and the results are in permissible limits.
- c. Climatic condition : The area falls under tropical climate. The temperature varies from 4.80C in winters to 470C in summers.

D. Socio economic environment

- a. Social and demographic profile. : The area is thinly populated. The villagers are dependent on mining and seasonal agricultural activity.
- b. Recommending health and safety. : First aid facility is available at pit head. One four wheeler is provided whenever required for transporting patient to a nearby government hospital.
- c. Human settlement : No human settlement within the lease area.
- 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.

<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>2014 - 2015</u>
	Area in Hect.

<u>TOP SOIL MANAGEMENT</u>
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 yet, due date of submission is up to 1st july'2015.

Scrutiny of AR 2013-14 was carried out during last inspection on 18.09.2014.

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.)

NIL

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

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines