

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/MB/MCDR-1/BBS

Mine code : 300RI10014

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : S/Sri R K Mahanta, Mines manager & H n Das, Mining En
Official with
Designation
- (iv) Date of Inspection : 15/04/2015
- (v) Prev.inspection date : 25/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BADAMPAHAR**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : MAYURBHANJ
Village : BADAMPAHAR
Taluka : RAIRANGPUR
Post office : BADAMPAHAR
Pin Code :
FAX No. :
E-mail :
Phone : 06794-278230
- (e) Police Station :
- (f) First opening date : 27/05/1970
2. Address for : BADAMPAHAR IRON ORE MINE, PO: BADAMPAHAR,
correspondance DIST: MAYURBHANJ, ORISSA.
3. (a) Lease Number : ORI0120
- (b) Lease area : 443.93
- (c) Period of lease : 30
- (d) Date of Expiry : 26/05/2000
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/s LAL TRADERS & AGENCY (P) LTD.
M/s LAL TRADERS & AGENCY 7,
WATER COOL STREET,
CALCUTTA, WEST BENGAL.
KOLKATA WEST BENGAL
Phone:033-2480602,2482623
FAX :033-2477739

Owner : M/S LAL TRADERS & AGENCY (P) LTD.
7, WATER COOL STREET,
CALCUTTA WEST BENGAL
KOLKATA WEST BENGAL
Phone:
FAX :

Mining Engineer

Name : K. BHATTACHARYA, Full Time
Qualification : B.E(MINING)
Appointment/ :
Termination date

Mining Engineer

Name : DULARAM MAHALI, Full Time
Qualification : B TECH MINING
Appointment/ :
Termination date

Geologist

Name : A.SEN, Full Time
Qualification : M.SC GEOLOGY
Appointment/ :
Termination date

Manager

Name : R.K. SWAIN
Qualification : NOT AVAILABLE
Appointment/ :
Termination date

6. Date of approval of Mining : 17/03/2015
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	7	301
Supervisory	34	301
Others	114	301
Plant	16	301
Workers	539	301

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	5.00	3.50	5.00	0.30	
Sanitation	4.00	2.80	4.00	0.50	
Health	3.50	2.44	4.00	0.10	
Housing	6.00	4.50	6.00		
Sub total	18.50	13.24	19.00	0.90	
Infrastructure					
Public transport	5.00	5.00	5.50		
Sub total	5.00	5.00	13.24		
Employment	500.00	500.00	495.00	7.43	
Others	5.00	5.00	2.50	0.20	
Recreation	1.50	2.00	2.36	0.20	
Training	2.00	2.00	0.58		
Environment management	1.40	1.40	5.10		
Total	533.40	534.40	524.28	8.73	

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 45(7), 47 & 48 were observed and being communicated to the part

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 being recommended at present.

5. Scientific Mining

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

a.Type of prospecting : Drilling of 15
and exploration i.e. nos. boreholes of
pitting, drilling 400 mtr. length

b.Total area covered : 15 ha

20 nos. holes of 400
mtr. length

20 ha

B. Working (Rule 13)

c.Ore to waste ratio : 1:0.13
pit wise if possible
otherwise for mine

1:0.08

for whole mine.

b.Bench : Bench ht.- 6m
size(LxWxH)length can
be defined as
regular/irregular

Peak (200x20x6)
Quarry No-4 (540x20x6)
Norven (200x16x6)
Bapet (570x16x6)
Approx.

regular

a.Number and size of : 04 no. pits :
each pit (LxWxH) Peak,
Quarry No-4,
Norven &
Bapet

04 no. pits :
Peak,
Quarry No-4,
Norven &
Bapet

d.Total area covered : Not specified for
under excavation/pits one year

38.5 ha. approx.

cumulative

C. Waste disposal (Rule 13)

a.Location of dumps : Dump-1 near RML
pillar 52
Dump-2 near RML
pillar 54
Dump-3 near RML
pillar 57
Dump-4 near RML
pillar 39
Dump-5 near RML
pillar 22 & 23

Dump-1 near RML pillar
52
Dump-2 near RML pillar
54
Dump-3 near RML pillar
57
Dump-4 near RML pillar
40
Dump-5 near RML pillar
24

cumulative

b.Method of dumping : Retreat
whether
advancing/retreat

Advancing & Retreating

c.Total area covered : 7.417 ha up to
under waste dump. 31..03.15

6.12 ha

cumulative

d.No.and size of each : 05 nos. of dumps
waste dump with No of
steps/lift/bench

Dump1-1 terrace
Dump2-3 terrace
Dump3-3 terrace
Dump4-1 terrace
Dump5-4 terrace

e.Yearly generation : 120720 m³

of waste quantity.

RESERVE POSITION AS ON 01/04/2015

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	613239	TON

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

Efforts for improving low grade and sub grade mineral. : As reported, The user agency has established a beneficiation plant of 95,000 TPA at Tirildihi outside the ML area for improving low grade and sub grade mineral quality. As, Badampahar is a low grade Iron ore mines.

Efforts for improving percentage of recovery of ore. : Sorting & screening

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : Peak Norven Quarry No. Bapet
Remarks
70% 70% 70% 70% Recovery
w.r.t total material

Number of benches in ore and waste. : Quarry Name Bench in OB Bench in Ore Total
Peak 1 03 04
Norven 1 6 07
Quarry No. 4 1 8 09
Bapet 2 8 10

Sub/grd mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : 23500 MT of -50% Fe (2014-15)

Number and size of each stack : Stack No.1- 0.46 Ha., Stack No.2- 0.25 Ha.,
Stack near Peak - 0.87 Ha.

Location of stacking. : Near Quarry No. 3 & Peak Quarry

Separate stacking from waste : Separately stacked from waste

Total area covered for stacking : 1.58 Ha. approx.

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 area is a hilly terrain with ups and downs. Iron ore mineralization occurred in these hilly areas both at the top as well as on the hill slopes.
- b. Aesthetic environment : Aesthetic beauty of the colony, mines office etc. is enhanced by plantation of different flower plants and medicinal plants. Plantation at avenue side and haul road, Gardening at nursery side and maintaining local road, village road from dust by sprinkling of water with water tanker on regular basis.
- c. Soil and land use pattern : top soil generation is negligible.
- d. Agriculture : Mining work is undertaken at the hill top. There is no agriculture land nearby.
- e. Forest(flora and fauna) : local common species namely Sal, Mahula, Neem, Patas, Kendu, Asan, Chhatian, Simul and etc.
- f. Vegetation : The area is covered by dense vegetation. Large number of trees has been planted within and outside the lease.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : nil

B Water environment.

- a. Surface water : Surface run-off water have been diverted through the garland drain to the settling pond for arresting the siltation before discharging to seasonal nalla.
- b. Ground water : Ground water samples are checked periodically as per norms.

C. Air environment

- a. Noise : Noise level measurement being undertaken . Earplugs are provided to the employees working in the noisy area.
- b. Air : periodical monitoring being carried out, parameters/results were within the permissible limit.
- c. Climatic condition : Sub-tropical, Temperature 9° C - 44° C
Annual rainfall 1100mm - 1450mm

D. Socio economic environment

- a. Social and demographic profile. : The socio economic environment is improved due to mining activities due to generation of employment, making of approach road to surrounding villages and infrastructure development.

- b. Recommending health and safety. : Periodical Medical Examination (PME) has been carried out as per norms.
- c. Human settlement : Some human settlement are there but away from working area. mostly the workers are coming from the nearby villages.
- d. Recreational facility. : Annual sports like football, local dance, cricket tournament, badminton tournament programs reportedly being organized.

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.

Annual return for the year 2014-15 is not submitted yet; due date of submission is upto 1st july.

Scrutiny of annual return for the year 2013-14 was already carried out during last inspections report.

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.)

Copy of violation letter being indorsed.

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

None

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines