

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-4/BBS14/03/2K

Mine code : 11ORI19005

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : SHRI A.K.PATI, Mines Manager/GM
Official with
Designation
- (iv) Date of Inspection : 23/07/2015
- (v) Prev.inspection date : 12/12/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **OSTAPAL**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : JAJPUR
Village : GURUJANG
Taluka : SUKINDA
Post office : KALIAPANI
Pin Code :
FAX No. :
E-mail :
Phone : 06726- 268755
- (e) Police Station :
- (f) First opening date : 01/12/1985
2. Address for : OATAPAL CHROMITE MINE, M/S FACOR LTD
correspondance P.O.KALIAPANI, DIST: JAJPUR
ORISSA-755047
3. (a) Lease Number : ORI0233
- (b) Lease area : 72.84
- (c) Period of lease : 20
- (d) Date of Expiry : 12/08/2005
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/s FACOR
P.O. Kaliapani via J. K.
Road CUTTACK ORISSA
Phone:
FAX :

Owner : M/S.FACOR
BHANDARA MAHARASHTRA
Phone: 07183-20233
FAX : 07183-20271

Mining Engineer

Name : Shri M K Sethy, Full Time
Qualification : B E (Mining)
Appointment/ : 30/03/2007
Termination date

Geologist

Name : I .RAMA RAO, Full Time
Qualification : MSC.GEOLOGIST
Appointment/ : 30/03/2007
Termination date

Geologist

Name : M.J. RAJU, Full Time
Qualification : M.SC (TECH)
Appointment/ : 29/03/2007
Termination date

Geologist

Name : D.K.MAHANTA, Full Time
Qualification : MSC GEOLOGY
Appointment/ : 30/04/2003 29/03/2007
Termination date

Manager

Name : S.JENA
Qualification : B.E(MINING)
Appointment/ : 17/12/2000
Termination date

Manager

Name : A.K.PATI
Qualification : DIPLOMA IN MINING
Appointment/ : 18/12/2000
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
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DIRECT

Managerial	19
Supervisory	20
Others	62
Workers	18

CONTRACT

Workers	180
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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					
Housing		5.37		2.66	
Water supply		62.84		13.66	
Health		25.39		8.38	
Sub total		93.60		24.70	
Infrastructure					
Public transport			21.42	6.83	
Sub total			93.60	6.83	
Employment			472.18	113.39	
Environment management			11.31	1.58	
Recreation			4.73	0.15	
Others			644.52	155.58	
Total			*****	302.23	

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

After last inspection on 12.12.2014, No Violation was pointed out.

During current inspection, compliance of MCDR,88 was also observed to be 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, 1988, if recommended.

Not being recommended.

5. Scientific Mining

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

b.Total area covered : About 2 Hects. About 2 Hects.
a.Type of prospecting : 4Nos. BHs, 4Nos. BHs,
and exploration i.e. 140Mtrs. 136Mtrs.
pitting, drilling

B. Working (Rule 13)

c.Ore to waste ratio : 1:2.4 1:2.97
pit wise if possible
otherwise for mine
b.Bench : Height 6 Mtrs. Height about 6Mtrs.
size(LxWxH)length can Width 10 Mtrs.;
be defined as regular Width 10-15Mtrs.; almost
regular/irregular regular
d.Total area covered : 28.742 Hect.upto 28.431 Hect. upto 2014-
under excavation/pits 2015-16 15

C. Waste disposal (Rule 13)

a.Location of dumps : South Dump South Dump
b.Method of dumping : Advancing Advancing
whether
advancing/retreat
c.Total area covered : 23.703 Ha N 16.5+S 6.5 = 23 Ha South Dump
under waste dump. approx.. active
d.No.and size of each : 02 nos. 02 nos.
waste dump with No of
steps/lift/bench
e.Yearly generation : 4.8 Lac M3 4.6 Lac M3
of waste quantity.

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

Mineral	Production	Unit
CHROMITE	155018.08	TON

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

Efforts for improving low grade and sub grade mineral. : The low grade chromite is feed to COB plant to produce high grade chrome ore concentrate. The concentrate is utilised for Hr. charge chrome plant

Efforts for improving percentage of recovery of ore. : Manual workers engaged in ore benches and near the fault zone instead of machinery for sorting & collection of ore.

Mineral Rule 15

Number of benches in ore and waste. : IN ORE 2 IN OB/WASTE 13

Percentage of recovery of ore : 100% w.r.t. to ROM ore and 69% w.r.t. Total pitwise w.r.t. ROM and total Material.
material

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Nil

Number and size of each stack : Nil

Separate stacking from waste : Nil

Location of stacking. : Nil

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. : Undulation & dipping towards South
- b. Aesthetic environment : OK
- c. Soil and land use pattern : As reported, the top soil of the Mines is not fertile. The overburden quantity is even poorer and devoid of organic carbon and nutrients needed for flora growth & plantation.
- d. Agriculture : No agriculture land inside leasehold area.
- e. Forest(flora and fauna) : There is no forest growth inside the leasehold area only afforestation has been done at places.
- f. Vegetation : Vegetation has been done inside the lease at places.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : N I L

B Water environment.

- a. Surface water : Surface runoff water is being collected through garland drains with check dams at sedimentation basin for settlement of suspended solids before discharged to outside.
- b. Ground water : Mines seepage water being treated in ETP and part of the treated water utilised for dust suppression, plantation and ore beneficiation purposes and rest part discharged to outside.
- c. Quality of water : Monitoring of water quality being carried out on quarterly basis by our Environmental Engg. Lab. Quality of final discharge water and bore well water was within the prescribed limit during 2014-15.

C. Air environment

- a. Noise : Monitoring of noise level has been carried out on quarterly basis by our Environmental Engg. Lab. The noise level is within 85 dB(A) at Works Environment.
- b. Air : Monitoring of Air quality has been carried out on quarterly basis by our Environmental Engg. Lab. The air quality was within the prescribed limit during 2014-15.
- c. Climatic condition : Moderate.

D. Socio economic environment

- a. Social and demographic profile. : Locals are mostly tribal people.
- b. Recommending health and : Satisfactory.

safety.

c. Human settlement : Some staff quarters are present within the lease area.

d. Recreational facility. : Club has been provided.

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.
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<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.

(1) Cost of operation	Rs. 4677.85(Fines)
(2) Reserve	48.213 Lakh MT
(3) Production	155018.079Mt.
(4) Pit's Mouth Value	Rs. 8845.31(40% to below 52% Cr203)
(5) Stock as on 31.03.2015	80631.296 MT (Fines)11745.518
MT(Concentrate)	

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.)

During inspection, it was observed that the ML Boundary pillar nos. D to E i.e. D/1, D/2, D/3, D/4, D/5, D/6, D/7, D/8, D/9 (as marked over lease plan in the northern side of lease) are fixed at the site over a Waste Dump (North Waste Dump). As per these posted pillars, waste dump is partly falling outside the Mining Lease boundary. The same is communicated vide this office letter dtd. 14.08.2015 to Director of Mines, Odisha requesting that the above matter may please be verified and further n

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

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines