

**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 : **CMHA** ) **SHRI L H CHHANGTE**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : A K Patra, GM (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 12/12/2014
- (v) Prev.inspection date : 23/06/2014

**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  
Supervisory

16  
18

312

CONTRACT

Workers  
Others

210  
68

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	
<b>General</b>					
Medical facility				8.16	
Sub total				8.16	
<b>Infrastructure</b>					
Sub total					
<b>Employment</b>				75.00	
<b>Training</b>				5.76	
<b>Others</b>				23.67	
<b>Environment management</b>				11.37	
<b>Total</b>				<b>123.96</b>	

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

No violation during last inspection and NO violation found this time also

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 now

**5. Scientific Mining**

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

- a.Type of prospecting : 4 nos , 140 metre and exploration i.e. pitting, drilling Actual 4 nos of bore holes , 102 metres only
- b.Total area covered : 2 ha 2 ha

**B. Working (Rule 13)**

- a.Number and size of each pit (LxWxH) : One large pit 550 m x 500m x 90 m deep Developed one large pit measuring 554.25m x 486.770 m x 81 m deep
- b.Bench : 6 m high and 10 m size(LxWxH)length can be defined as regular/irregular Developed as proposed 6m high and 10 m wide, regular
- c.Ore to waste ratio : 1:2.5 pit wise if possible otherwise for mine Actual 1 : 2.34
- d.Total area covered : 30 ha under excavation/pits Actual area covered by pit is 26.979 ha

**C. Waste disposal (Rule 13)**

- a.Location of dumps : North end of the ML North end of the ML
- e.Yearly generation of waste quantity : 5 lakh CuM Actual during 2012-13 was 4.63 lakh CuM
- b.Method of dumping whether advancing/retreat : Advancing Practised Advancing method of dumping
- c.Total area covered : 20 ha under waste dump. 19.409 ha
- d.No.and size of each waste dump with No of steps/lift/bench : Two (2) measuring 800m x 200m and 200m x 200m wide Actually developed also 2 large dumps measuring 798m x 195m , 5 steps and another one 216m x 180m with 3 steps

**D. Production**

- b.Year wise production of last five year. : Production planned at 2 lakh MT Actual production during 2012-13 was 1,97,706.476 MT only

**D. Reserve**

- a.Reserve position as per latest MP/MS and at the time of inspection. : UNFC 111 is 1974400 MT as per approved MP During inspection reserves estimate was 17,77,059 MT

**RESERVE POSITION AS ON 01/04/2014**

<b>CHROMITE</b>		
Category	Quantity in Tonnes	Grade
Proved	1974400	40.42% Cr <sub>2</sub> O <sub>3</sub>
Probable	3189100	
Possible		
Total	5163500	

<b><u>PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014</u></b>		
Mineral	Production	Unit
CHROMITE	197706.47	TON

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

Efforts for improving low grade and sub grade mineral. : This mine is having COB plant.

Efforts for improving percentage of recovery of ore. : None except selective mining at the faces

**Mineral Rule 15**

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 40% of total materials handled

Number of benches in ore and waste. : Ore 7 benches, OB 12 benches

**Sub/grd mineral/fines (Rule16)**

Qty of yearly generation and total qty available during inspection with grade : About 1,00,000 MT of fines having grade of 40-45%

Number and size of each stack : Only one fines stack

Location of stacking. : No subgrade stacking here in this mine

Separate stacking from waste : Yes, separate stacking of ores and wastes

Total area covered for stacking : Fines stacking near their mine office/ processing plant is covering about 200m x 200m

**Exploration data as on 31/03/ 2014**

No. of Boreholes	No. of Pits	No. of Trenches
165		

**OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014**

Overburden/waste removed (in m3) :	463000
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**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)

## 7. Environment Management - both quantitative and qualitativ

### A. Land environment

- a. Landscape. : utilisation of land within the Ml as per mining and its allied activities is affecting the landscape to this extent
- b. Aesthetic environment : Not much affected except to the extent of mining and its allied activities
- c. Soil and land use pattern : Land use is considered fruitful and satisfactory to the extent of minimum requirement
- d. Agriculture : No agricultural activity in the vicinity of the ML
- e. Forest(flora and fauna) : No effect seen in flora and fauna
- f. Vegetation : Forest cover is being maintained by afforestation in and around the ML
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : No important public building or monument in the buffer zone

### B Water environment.

- a. Surface water : Natural drainage system not affected. Main river is Damsala near 250 metre away from the ML
- b. Ground water : There is adequate pumping arrangement in this mine. Ground water is considered still not affected by this mining
- c. Quality of water : Found potable and being tested and monitored on a regular basis

### C. Air environment

- a. Noise : No affected
- b. Air : No significant affect observed due to this mining
- c. Climatic condition : No effect on local climate

### D. Socio economic environment

- a. Social and demographic profile. : Local people are either directly or indirectly dependent on mining industry and its related activities
- b. Recommending health and safety. : None as of now
- c. Human settlement : Most of the local people are earning their livelihood from mining industry
- d. Recreational facility. : Limited facilities within their mining colony

#### 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      2013 - 2014**

Area in Hect.

**TOP SOIL MANAGEMENT**

Quantity as on 31/03/2014

**8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.**

AR 2012-13 scrutinised and found in order. Cost of production Rs 3648 per MT, PMV Rs 7446.50 per MT. Last year production was 1,97,706 MT and closing stock at 58,743.781 MT

**PART - III : PERFORMANCE OF MINE OWNER**

(In case of lease expiring within 2 years - as per guidelines)

**a. Compliance of terms and conditions of lease deed.**

Lease deed conditions satisfactorily complied with as on date of inspection. However, the fact that all the ML boundary pillars couldnot be checked during the present inspection except a few pillars .

**b. Compliance of the provisions of MCDR, 88 and advise given.**

Lease period already expired on 12/08/2005. Is under deemed renewal

**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 L H CHHANGTE)

Indian Bureau of Mines