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 : 110RI19005

. ,	Name of the Inspecting Officer and ID No.	:	25) SHRI IBRAHIM SARIF
(ii) D	Designation	:	Assistant Controller Mine
C	Accompaning mine Official with Designation	:	Shri A K Pati, Mines Manager
(iv)	Date of Inspection	:	13/03/2016

(v) Prev.inspection date : 23/07/2015

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.		ess for espondance	:	OATAPAL CHROMITE MINE, M/S FACOR LTD P.O.KALIAPANI, DIST: JAJPUR ORISSA-755047	
3.	. ,	Lease Number Lease area		• ORI0233	
				20	
	(d)				
	(u)	Date of Expiry		. 12/06/2005	
4.	Mine	eral worked	:	CHROMITE Main	

5.	Name	and Address of Lessee	the :	M/s FACOR P.O. Kaliapani via J. Road CUTTACK ORISSA Phone: FAX :	. К.	
		Owner	:	M/S.FACOR BHANDARA MAHARASHT Phone: 07183-20233 FAX : 07183-20271	TRA	
		Mining Enginee	er			
		Name	:	Shri M K Sethy,Full T	Time	
		Qualification	:	B E (Mining)		
		Appointment/ Termination da		30/03/2007		
		Geologist				
		Name	:	I .RAMA RAO,Full Time	2	
		Qualification	:	MSC.GEOLOGIST		
		Appointment/ Termination da		30/03/2007		
		Geologist				
		Name	:	M.J. RAJU,Full Time		
		Qualification				
		Appointment/ Termination da	:	mbe (men)	29/03/2007	
		Geologist				
		Name	:	D.K.MAHANTA, Full Time	2	
		Qualification	:	MSC GEOLOGY		
		Appointment/ Termination da		30/04/2003	29/03/2007	
		Manager				
		Name	:	S.JENA		
		Qualification	:	B.E(MINING)		
		Appointment/	:		17/12/2000	
		Termination da	te			
		Manager				
		Name	:	A.K.PATI		
		Qualification	:	DIPLOMA IN MINING		
		Appointment/		18/12/2000		
		Termination da	te			
6.		of approval of	Mini	ng :		

Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

Details about Average employment : Maximum number of persons employed on any day during the year

Employment category

No.of employment Page 2 of 11 Av. yearly working days

DIRECT		
Managerial	19	278
Supervisory	20	278
Others	60	278
Workers	18	278
CONTRACT		
Workers	267	278

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towords socio-economic development.

Action during the year	Exp	Remarks			
	previo	us year	current		
	Proposed	Incurred	Proposed	Incurred	
General Water supply		65.59		65.59	
Housing		5.37		5.37	
Health		25.37		25.37	
Sub total Infrastructure		96.33		96.33	
Public transport			21.43	21.43	
Sub total			96.33	21.43	
Recreation			5.09	5.09	
Employment			306.85	306.85	
Environment management			11.31	11.31	
Others			24.28	24.28	
Total			465.29	465.29	

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

There was no outstanding violations. During inspection violation of rule 13(1), 45(7) of MCDR 1988 was pointed out on the spot to the party.

 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						
A. Exploration (Rule 13)									
a.Type of prospecting and exploration i.e. pitting, drilling		7 Nos. of bore holes, 242 Mtrs.							
b.Total area covered	:6 Ha	бНа							
B. Working (Rule 13)									
a.Number and size of each pit (LxWxH)	:	568.14m x 505.33 m x 96.54 m							
b.Bench size(LxWxH)length can be defined as regular/irregular	: Length regular Height 6 Mtrs. Width 10.4Mtrs.	Length regular Height 6 Mtrs. Width 10.4Mtrs.							
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:2.4	1:2.4							
d.Total area covered under excavation/pits	:	26.952 Hect.							
C. Waste disposal (Rule	e 13)								
a.Location of dumps	: South Dump	South Dump							
e.Yearly generation of waste quantity.	:4.8 Lac M3	4.30 Lac M3							
b.Method of dumping whether advancing/retreat	: Advancing	Advancing							
c.Total area covered under waste dump.	: 23.85 Ha	23.85 На							
d.No.and size of each waste dump with No of steps/lift/bench		North dump (dead), area- 16.78 Ha, Height- 73.27 m, 5 terraces South Dump (active), area 7.08 Ha, hEIGHT- 36.41M, 3 Terraces							
D. Production									
b.Year wise production of last five year.	: 2014-15: 200000 MT 2015-16 : 200000 MT	20141-15 : 155018.079 MT 2015-16 : 68572.807 MT (till Feb'16)							
D. Reserve									
a.Reserve position as per latest MP/MS and at the time of inspection.		Classification Code Quantity Grade Proved Mineral Reserve 111 1632200.000 40.96 Probable Mineral Reserve							
	Раде	5 of 11							

121 and 122 3189100.000 40.02

CHROMITE				
Category	Quantity in Tonnes	Grade		
Proved	1632200	40.96		
Probable	3189100	40.02		
Possible				
Total	4821300			
	PRODUCTION FO	R THE PREVIOUS	YEAR	2014 - 2015
Mineral		Production	Unit	
CHROMIT	ΓE	155018	TON	

6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low grade and sub grade mineral.	: Low-grade ore (-40% Cr2O3) is fed to C upgradation to usable grade.	OB plant for
Efforts for improving percentage of recovery of ore.	: Manual workers are engaged in ore benc areas in pocket type deposit where the dilution by mechanical cutting is more picking is also done in ore stack yar the quality of the material	chance of ore . Sorting &
Minearl Rule 15		
Number of benches in ore and waste.	: Waste-15 nos. Ore 2 nos	
Sub/grd mineral/fines (Rule16)		
Separate stacking from waste	: Yes	
Location of stacking.	: North-Western part of lease area	
Explo	ration data as on 31/03/ 2015	
No. of Boreholes	No. of Pits No. of	of Trenches
180		
OVERBURDEN HANI	DLED DURING PREVIOUS YEAR 2014 - 2015	
Overbuden/waste removed (in	m3): 460000	
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.	:	Undulation & dipping towards South
	b. Aesthetic environment	:	Mining operation & disposal of waste has been carried out as per approved Mining Plan/Scheme, Dead Benches stabilized by plantation.
	c. Soil and land use pattern	:	The top soil of our Mines is not fertile and most of the land is broken up. The details of land use pattern is given as below Sl. No. Description Area in Ha. 1 Area under Mining 28.710 2 Over Burden Dump 23.836 3 Ore Stackyard 2.873 4 COB Plant 3.330 5 Tailing Pond 2.996 6 Essential Infrastructure 0.613 7 Road 1.788 8 Drain 2.242 9 Peripheral Area 2.385 10 Safety Zone 4.070 Total: 72.843
	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 as approved Mining Plan/Mining Scheme.
в	Water environment.		
	a. Surface water	:	The Dhamsala nala is flowing South side of the lease area. All the surface run off is being collected at the settling pit through garland drains from where suspended solids are settled down and pumped out to ETP before discharged to outside lease area.
	c. Quality of water	:	Monitoring of water quality has been carried out on quarterly basis. Quality of final discharge water and bore well water is well within the prescribed limit.
	b. Ground water	:	Mines seepage water has been treated in our Up-Graded ETP and part of the treated water utilised for dust suppression, plantation and ore beneficiation purposes and rest part discharged to outside of lease area after treatmnt at ETP.
c.	Air environment		
	a. Noise	:	Monitoring of noise level has been carried out on quarterly basis . The noise level is within 8permissible limit.
	c. Climatic condition	:	Moderate.
D.	Socio economic environment		
	c. Human settlement	:	Some staff quarters are provided within the lease area Page 8 of 11

- 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.

	Va	lue				
Season	Station type	Station name		Parameter	Actual	Excess
		Air data fo	r excess p	arameters		
Season	Station na	ame	Type of	area Par	ameter Actua	alue 1 Exces
	PLANTATION	DURING THE PREVI	OUS YEAR	2014 - 2015		
	PLANTATION	DURING THE PREVI	OUS YEAR	<u>2014 - 2015</u>	Area in	Hect.
	PLANTATION Within lease a		OUS YEAR	<u>2014 - 2015</u> Outside lease		Hect.
Area		irea	Area	Outside lease		

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.

(1) Cost of Operation/Ton Rs.4677.85 (2) Reserve Classification Quantity Grade Code 1632200.000 40.96 111 Proved Mineral Reserve 121 and 122 3189100.000 40.02 Probable Mineral Reserve (3) Production 155018.079 MT (4) Pit's Mouth Value Rs.9614.16 (40% - 52% Cr2O3) Rs.8845.31/- (below 40% Cr203) (5) Stock as on 29.02.2016 80426.087 MT (Fines) 11745.518 MT (Concentrate) (6) Land Use Pattern (i) Covered under current (O/C) workings 28.43 (ii) Used for waste disposal 23.63 (iii) Occupied by plant, buildings, residential,welfare buildings & roads 7.73 (iv) Used for any other purpose (specify): Ore Plot Sub Grade Plot Taling Point 8.88 (v) Work done under progressive mine closure plan during the year 1.8 (7) Fixed assets Rs. 18.392 Crores (Company as a whole)

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