INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-9/BBS-8/3/200 Mine code : 110RI19009

(i)	Name of the Inspecting Officer and ID No.	:	25) SHRI IBRAHIM SARIF
(ii)	Designation	:	Assistant Controller Mine
(iii)	Accompaning mine Official with Designation	:	J P MISHRA, MINES MANAGER, SUMANTA SAHOO, GEOLOGIST
(iv)	Date of Inspection	:	19/03/2016

(v) Prev.inspection date : 11/12/2014

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	:	TALANGI
	(b)	Category	:	A Other than Fully Mech.
	(c)	Type of Working	:	Opencast
	(d)	Postal address		
		State	:	ORISSA
		District	:	JAJPUR
		Village	:	TALANGI
		Taluka	:	SUKINDA
		Post office	:	KANSA
		Pin Code	:	
		FAX No.	:	0674-402218
		E-mail	:	
		Phone	:	
	(e)	Police Station	:	
	(f)	First opening date	:	07/06/1993
2.	Addr corr	ress for respondance	:	TALANGI CHROMITE MINE,M/S IDCOL P.O.KANSA, DIST:JAJPUR ORISSA
3.	(a)	Lease Number	:	ORI0628
	(b)	Lease area	:	221.22
	(c)	Period of lease	:	0
	(d)	Date of Expiry	:	
4.	Mine	eral worked	:	CHROMITE Main

305

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5.	Name and Address of	the		
	Lessee	:	M/S.IDCOL	
			IDCOL House P.O. NO=78	
			,ASHOK NAGAR BHUBANESWAR	
			KHURDA ORISSA	
			Phone:	
			FAX :0674-402218	
	Owner	:	THE I.D.C OF ORISSA LTD	
			IDCOL HOUSE, ASHOK NAGAR	
			UNIT -II , P.B.NU /8	
			Dhome:	
			FAX : 0674 - 402218	
			TAX • 0074 102210	
	Agent	:	J.CHANDRA	
			FERROCHROME PLANT M/S IDCOL	
			JAJPUR ORISSA	
			Phone:	
			FAX :	
	Geologist			
	Name	:	P.C.NAIK,Full Time	
	Qualification	:	M.Sc.Tech in Applied Geology	
	Appointment/	:		
	Termination da	ate		
	Manager			
	Name	:	C.S.MISHRA	
	Qualification	:	M.Sc (GEO) FIRST CLASS MINE MANAGER''S C	
	Appointment/	:		
	Termination da	ate		
	Manager			
	Name	:	A.K.MISHRA	
	Qualification	:	DIPLOMA IN MINING , 1ST CLASS MANAGER CE	
	Appointment/	:		
	Termination da	ate		
6.	Date of approval of	Min	ing : 24/04/2012]
	Plan/Scheme of Minim	ng		
		P	ART - II : TECHNICAL DETAILS/COMMENTS	
-	Details about Arro	race	employment .	
_	Maximum number o	f pe	rsons employed on any day during the year	
1	DIRECT		NO.OI EMPLOYMENT AV. YEARLY WORKING	j days
			•	205
	Managerial		2	305
	Others		18	305
	CONTRACT		10	505

27

167

Others

Workers

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towords socio-economic development.							
Action during the year	Exp	enditure in F	Rs. Lakhs for		Remarks		
	previc	us year	curren	it year	_		
	Proposed	Incurred	Proposed	Incurred			
General Infrastructur&ub total							
Sub total							
Total							

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

There was no outstanding violations. During current inspection violation of Rule 27(4), 33(2), 42 and 45(5)(b)(iv) of MCDR 1988 was pointed out on the spot.

 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

j			
Items	Proposal	Actual work done	Remarks
B. Working (Rule 13)			
a.Number and size of each pit (LxWxH)	:	470m x 260m x 60m (Qr No. 2)	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular10-15 m x 4-5m in waste Regular2.5 m x 1.5m in ore	Regular 4-10 m x 4-5m in waste Regular 2.5 m x 1.5m in ore	
d.Total area covered under excavation/pits	:	12.7 Ha (Quarry-2)	
C. Waste disposal (Rule	e 13)		
a.Location of dumps	: X 3100- Y1850 X 3400- Y 2250	X 3100- Y1850 X 3400- Y 2250 At present waste material is being backfilling in Quarry no.1	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	
e.Yearly generation of waste quantity.	:	375040.00 T	Backfilling in Quarry no.1
c.Total area covered under waste dump.	:12.5 Ha	12.5 ha	
d.No.and size of each waste dump with No of steps/lift/bench	:	2 waste dump, 3 lifts, 12m & 55m Height	
D. Production			
b.Year wise production of last five year.	:	2014-15 : 55952.00 T	
D. Reserve			
a.Reserve position as per latest MP/MS and at the time of inspection.	:	Classification Code Quantity Grade Proved Mineral Reserve 111 403097.000 10-52% Probable Mineral Reserve 121 and 122 55952.000 10-52% Indicated Mineral Resource 332 238807.000 10-52%	

RESERVE POSITION AS ON 01/04/2015

CUDONTER				
Category	Quantity in Tonnes	Grade		
Proved	403097	10-52%		
Probable	55952	55952.00		
Possible	238807	238807.00		
Total	697856			
	PRODUCTION FO	OR THE PREVIOUS	YEAR	2014 - 2015
Mineral		Production	Unit	
CHROMIT	E	55952	TON	

6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

<pre>grade and sub grade mineral. Efforts for improving</pre>	Efforts for improving low	:	The sub-grade ore is blended with the high grade ore
Efforts for improving : The low-grade ore is processed in COB plant in the lease area & blended with the high-grade ore to obtain marketable ore.	grade and sub grade mineral.		
	Efforts for improving percentage of recovery of ore.	:	The low-grade ore is processed in COB plant in the lease area & blended with the high-grade ore to obtain marketable ore.

Minearl Rule 15

Percentage of recovery of ore : 70% w r t ROM pitwise w.r.t. ROM and total material Number of benches in ore and : Ore 2 nos waste. 2 Nos Waste 10 nos. Sub/grd mineral/fines (Rule16)

Total area covered for : 11.37 Ha

stacking
Separate stacking from waste : Yes

Location of stacking. : Western side of the quarry.

Exploration data as on 31/03/ 2015								
No. of Boreholes	No. of Pits	No. of Trenches						
OVERBURDEN	HANDLED DURING PREVIOUS YEAR 2014	- 2015						
Overbuden/waste removed	(in m3) : 375040							
Utilisatio	on of Sub Grade Mineral and Mineral	Rejects						
Gener	rated Utilised Stack	(In Ton.)						

7. Environment Management - both quantitative and qualitativ

A. Land environment

	a. Landscape.	:	The lease area is barren & there is no cultivated land existing in the lease area, where mining is carried out.
	b. Aesthetic environment	:	The lease area was developed with a green cover of plantation
	c. Soil and land use pattern	:	Total (i) Already exploited & abandoned by opencast (O/C) mining 8.75 (ii) Covered under current (O/C) workings 12.7 (iii) Used for waste disposal 12.5 (iv) Occupied by plant, buildings, residential, welfare buildings & roads 3.91 (v) Used for any other purpose (specify) ORE STORING AND TOP SOIL 11.37
	d. Agriculture	:	There is no agriculture going inside the lease area.
	e. Forest(flora and fauna)	:	There is no specific flora or fauna exists within the lease area.
	f. Vegetation	:	There is no prominent vegetation cover existing inside the lease area except the greenery developed
	h. Public building, places and monuments (protected, historical), placec of worship and places of tourist	:	Not applicable
в	Water environment.		
	a. Surface water	:	Damsala nala is flowing on eastern side of the lease area.There is no surface water contamination observed as such.
	b. Ground water	:	Water table has be intersected by mining activity. water encountered is pumped out and subject to ETP before discharge to outside lease area.
	c. Quality of water	:	Potable
c.	Air environment		
	c. Climatic condition	:	One metrological station has been installed at the office building to record the temperature, pressure, rainfall, wind speed, direction, solar radiation etc. During summer from March to middle of June, the maximum temperature varies from 24 degree to 42.8 degree. During the rains i.e from mid-June to mid- October, south west rains cover the area with precipitation varying between 1200-1400mm. Autumn lasts from mid-November with pleasant weather having temperature between 180 to 330

D. Socio economic environment

a. Social and demographic profile.	: The area has primarily forest and fallow land. Most of the smaller villages and hamlets consist of a single tribe or caste population. The major scheduled tribes are Munda, Khadia, Ganda, Oroan, etc. however the scheduled caste communities are Hadi, Pana, Doma, Mochi, Chamara etc. The two communities together constitute approximately 40% of the total population of the Tahsil.
c. Human settlement	: IME & PME has been carried out of all workers & employees. Health camp checkup is being organised by the lessee, provision of supplying free medicines to the villagers (including employees) are provided
d. Recreational facility.	: There is no habitat in the core zone. however As per 2001 Census 74049 persons inhabited within buffer zone of mining lease area. The male and female contribute 51.0% and 49.0%.are

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.

		Water	Manageme	ent		Va	lue
Season	Station type	Station name		Paramete	er	Actual	Excess
		<u>Air data for</u>	excess pa	arameters		τ.	
Season	Station name		Type of	area	Parameter	Actua	l Excess
	PLANTATION DU	RING THE PREVIO	US YEAR	2014 - 201	5		
					A	rea in	Hect.

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.

The party has submitted annual return for the year 2014-15, which was scrutinized & found that, (1) Cost of operation: Rs. 3806.79/ton. (2) Reserve: Classification Code Quantity Grade Proved Mineral Reserve 111 403097.000 10-52% Probable Mineral Reserve 121 and 122 55952.000 10-52% Indicated Mineral Resource 332 238807.000 10-52% (3) Production: 55952 tonnes. (4) Pit's Mouth Value (in Rs.): Lumps : Below 40% Cr2O3: Rs. 3265.00 Fines : Below 40% Cr2O3 : Rs. 2155.00 40% to below 52% Cr2O3 : Rs. 12067.00 Concentrates : Rs. 10968.00 (5) Stock: ROM : 78431.352 T Lumps : 531.108 T Fines : 131853.857 Concentrate : 1359.76 (6) Land use pattern: Under forest Outside forest Total (i) Already exploited & abandoned 6.3 by opencast (O/C) mining 2.45 8.75 (ii) Covered under current (O/C) workings 1.91 10.79 12.7 (iii) Used for waste disposal 0.825 11.67 12.5 (iv) Occupied by plant, buildings, residential, welfare buildings & roads 0.948 2.96 3.91 (v) Used for any other purpose (specify) ORE STORING AND TOP SOIL 5.61 5.76 11.37

(7) Fixed assets (Rs.'000). Rs. 28255309.00

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.)

Safety zone of the lease area area has been disturbed by Waste dumping on Eastern side and by Quarry on North Western side.

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

None

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines