INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDR-2/BBS

Mine code : 400RI13008

(i)	Name of the Inspecting Officer and ID No.	:	DEY) NARENDRA MOHAN DEY
(ii)	Designation	:	Assistant Mining Engineer
(iii)	Accompaning mine Official with Designation	:	S/SHRI A SEN, CGM, S SAMAL, MINES MANAGER CUM MINING
(iv)	Date of Inspection	:	07/11/2015

(v) Prev.inspection date : 21/09/2014

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	: KANTHER-KOIRA
	(b)	Category	: B Manual
	(C)	Type of Working	: Opencast
	(d)	Postal address	
		State	: ORISSA
		District	: SUNDARGARH
		Village	: KANTHER-KOIRA
		Taluka	: BONAI
		Post office	: KOIRA
		Pin Code	:
		FAX No.	:
		E-mail	:
		Phone	:
	(e)	Police Station	:
	(f)	First opening date	: 15/12/1945
2.		ess for espondance	: PO:KOIRA, DIST: SUNDERGARH ORISSA
			PIN-770048
3.	(a)	Lease Number	: ORI0206
	(b)	Lease area	: 73.65
	(C)	Period of lease	: 20
	(d)	Date of Expiry	: 31/12/1999
4.	Mira	ral worked	: MANGANESE ORE Main
ч.	мтпе	LAL WULKEU	• MAINERE OKE MAINE

5.	Name and Address of t	he	
	Lessee	:	Rungta Mines Ltd
			Rungta House P.O.Chaibasa SINGHBHUM (WEST) JHARKHAND Phone:06582-56461,56561,56661,56761 FAX :91-6582-56442
	Owner	:	M/S Rungta Mines Ltd M/S Rungta Mines Ltd Rungta House At P.O.Chaibasa SINGHBHUM (WEST) JHARKHAND Phone: 06582- 56461,56 FAX : 91- 6582 - 5644
6.	Date of approval of M Plan/Scheme of Mining		ng : 25/02/2015

PART - II : TECHNICAL DETAILS/COMMENTS

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

Employment category DIRECT	No.of employment	Av. yearly working days
Managerial	4	
Supervisory	2	
CONTRACT		
Workers	25	

Action during the year	Exp	enditure in R	s. Lakhs for		Remarks
	previous year		current	current year	
	Proposed	Incurred	Proposed	Incurred	
General Sanitation		1.68		1.68	
Water supply		3.27		3.41	
Sub total Infrastructure		4.95		5.09	
Public transport			4.95	4.95	
Sub total			4.95	4.95	
Total			9.90	10.04	

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

NO OUT STANGING VIOLATION

 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		2014-15 : NIL 2015-16 : 04	MINING OPERATION WAS TEMPORARILY DISCONTINUED FROM 18.05.2014 TO 14.05.2015.
b.Total area covered :	2014-15 : 3.5 HA	2014-15 : NIL CUMULATIVE TOTAL AREA COVERED : 19.922 HA AS ON DATE OF INSPECTION.	
B. Working (Rule 13)			
a.Number and size of : each pit (LxWxH)		ONE SIZE OF PIT : 400 M X 200 M X 61 M	
b.Bench : size(LxWxH)length can be defined as regular/irregular		HEIGHT 6 M AND WIDTH 12 M	
c.Ore to waste ratio : pit wise if possible otherwise for mine	1 : 17.53 (MT : CUM)	1 : 35 (MT : CUM)	
d.Total area covered : under excavation/pits		12.818 HA	MINING OPERATION WAS DISCONTINUED FROM 18.05.2014 TO 14.05.2015.
C. Waste disposal (Rule	13)		
a.Location of dumps :	S100 -E 800	S 100 -E 800	
e.Yearly generation : of waste quantity.	701336 CUM	20583 СИМ	MINING OPERATION WAS DISCONTINUED FROM 18.05.2014 TO 14.05.2015.
b.Method of dumping : whether advancing/retreat	ADVANCING	ADVANCING	
c.Total area covered : under waste dump.	10.01 HA AT THE END OF SCHEME PERIOD	4.01 HA	
d.No.and size of each : waste dump with No of steps/lift/bench	250 M X 200 M X 28 M	250 M X 200 M X 22 M	
D. Production			
b.Year wise : production of last	2014-15 : 40010 MT 2015-16 : 20025 MT Page	PRODUCTION 2014-15 : 4 ⁵ 84.53 ^{8 MT}	MINE WAS DISCONTINUED

five year.

D. Reserve

a.Reserve position as : per latest MP/MS and at the time of inspection. PRODUCTION UPTO DATE OF FROM 18.05.2014 INSPECTION : 3281.987 MT TO 14.05.2015.

RESERVE POSITION AS PER LATEST SCHEME OF MINING APPROVED ON 25.02.2015 AND AT THE TIME OF INSPECTION IS AS FOLLOWS: AS PER UNFC 121 : 425423 MT HAVING 10% MN & ABOVE AS PER UNFC 122 : 4998 MT HAVING 10% MN & ABOVE

RESERVE POSITION AS ON 01/04/2015

MANGANESE ORE		
Category Quant	ity in Tonnes	Grade
Proved	0	
Probable	430421	10% MN & ABOVE (121: 425423 MT + 122: 4998 MT)
Possible	0	
Total	430421	10% MN & ABOVE
	PRODUCTION FO	OR THE PREVIOUS YEAR 2014 - 2015
Mineral		Production Unit
MANGANESE ORE]	585 TON

6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low	: NOT DONE AS THE LOW GRADE ORE IS HIGHLY CONTAMINATED
grade and sub grade mineral.	WHICH IS NOT PHYSICALLY SEPARABLE.
Efforts for improving percentage of recovery of ore.	: BY MANUAL DRESSING, SIZING AND SORTING OF ORE .

Minearl Rule 15

Percentage of recovery of ore : MANGANESE ORE 5% ROM OF TOTAL EXCAVATION. pitwise w.r.t. ROM and total material Number of benches in ore and : NUMBEROF BENCHES IN ORE 14 AND IN WASTE 1 waste. Sub/grd mineral/fines (Rule16) Qty of yearly generation and : DURING 2014-15 QUANTITY GENERATED : 327.588 MT DURING 2015-16 AS ON DATE OF INSPECTION : 164 MT total qty available during CUMULATIVE AS ON DATE OF INSPECTION : 491.588 MT inspection with grade HAVING GRADE 10 TO 20 % MN Number and size of each stack : 40 M X 20 M X 2 M Location of stacking. : WITHIN THE MINE SITE Separate stacking from waste : THE SUB GRADE ORE IS SORTED BY MANUAL METHOD AND STACKED SEPARATELY IN THE MINE SITE. Total area covered for : 0.79 HA stacking

I	xploration data	as on 31/03/	2015	
No. of Boreholes	No. of	Pits	No.	of Trenches
251				
OVERBURDEN	HANDLED DURING	PREVIOUS YEAR	2014 - 2015	
Overbuden/waste removed	(in m3) :	20583		
Utilisatio	on of Sub Grade I	Mineral and Min	neral Rejects	
Gener	ated Ut:	ilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

		Water Management Value
7.1		by the lessee towards maintaining environment and parameters to ensure the qualitative improvement in
. 1		: SPORTS AND GAMES ITEMS ARE PROVIDED. DIS ANTENNA IS PROVIDED IN THE MINE CAMP AREA.
	a. Social and demographic profile.	: MOST OF THE PEOPLE IN THE AREA DEPEND ON AGRICULTURAL.
	b. Recommending health and safety.	: HEALTH CHECK-UP CAMPS ARE ORGANISED AND FREE MEDICINES ARE PROVIDED.
D.	Socio economic environment	
	b. Air	: THE AIR POLLUTION IS MINIMISED BY SPRINKLING OF WATER ON HAUL ROAD AND ALSO USING WET DRILLING TECHNIQUE.
	a. Noise	: THE NOISE LEVEL IS UNDER PRESCRIBED LIMIT.
c.	Air environment	
	b. Ground water	: SOURCE OF GROUND WATER IN THE AREA IS DUG WELL AND TUBE WELL.
	c. Quality of water	: THE QUALITY OF GROUND WATER IS SUITABLE FOR DRINKING AND DOMESTIC USE.
		IS OUT SIDE LEASE BOUNDARY.
2	a. Surface water	: NEAREST SURFACE WATER SOURCE IS TEHERAI NALA WHICH
в	Water environment.	
	<pre>h. Public building, places and monuments (protected, historical), placec of worship and places of tourist</pre>	: NO MONUMENTS ETC.
	f. Vegetation	: COMMON PLANTS LIKE SAL, MANGO ETC ARE FOUND.
	e. Forest(flora and fauna)	: COMMON PLANTS AND ANIMALS & BIRDS ARE FOUND.
	d. Agriculture	: NO AGRICULTURAL LAND
	b. Aesthetic environment	: OUT OF TOTAL LEASE AREA 73.653 HA, 35.839 HA LAND IS UNDER FOREST.
	a. Landscape.	: THE AREA IS HIGHLY UNDULATED WITH HILLOCK AND VALLEYS.HIGHEST CONTOUR IS AT 676 M AND LOWEST CONTOUR IS 581 M.

Season	Station type	Station name	Par	ameter	Actual	Excess
		Air data for	excess parameter	s	77	alue
Season	Station name		Type of area	Paramet		
	PLANTATION DU	RING THE PREVIO	DUS YEAR 2014 -	- 2015		
		Pag	e 7 of 10		Area 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.

ANNUAL RETURN FOR THE PERIOD 2014-15 HAS BEEN RECEIVED AND SCRUTINISED. COST OF OPERATION : Rs.12857.05 /- PER TONNE RESERVE : 430421 MT (PROVED & PROBABLE) PRODUCTION : 584.538 MT (MINE WAS DISCONTINUED FROM 18.05.2014 TO 14.05.2015) PIT MOUTH VALUE : Rs.12599.42 /-LAND USE PATTERN: OUT OF 73.653 HA, 20.199 HA LAND IS ALREADY COVERED UNDER MINING ACTIVITIES. FIXED ASSETS : Rs 3789110.00 /-

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.

SCHEME OF MINING APPROVED ON 25.02.2015 FOR THE PERIOD 2015-16 TO 31.12.2019. DGPS MAP PREPARED BY ORSAC DATED 29.08.2012. BOUNDARY PILLARS HAVE BEEN COSTRUCTED AND MAINTAINED . IT IS OBSERVED THAT READINGS MENTIONED ON THE BOUNDARY PILLAR ARE ALMOST MATCHING WITH THE READINGS MENTIONED ON THE DGPS MAP.

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

DURING CURRENT INSPECTION NO VIOLATION WAS OBSERVED.

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

OUT OF TOTAL LEASE AREA 73.653 HA, THE LEASE AREA EXPLORED AS PER UNFC IS AS FOLLOWS: UNDER GI LEVEL : 19.606 HA UNDER G2 LEVEL : 0.316 HA OTHER UNEXPLORED AREA 53.731 HA PROPOSAL HAS BEEN GIVEN TO PUT 54 BOREHOLES DURING THE YEAR 2015-16 TO 2017-18.

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

THE MINERALISATION WILL NOT EXHAUST SO THE CLOSING OPERARION IN PHASES DOES NOT ARISE.

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

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

Date :

(NARENDRA MOHAN DEY)

Indian Bureau of Mines