

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDR-3/BBS

Mine code : 40ORI13010

- (i) Name of the Inspecting : **DEY**) **NARENDRA MOHAN DEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI SANJU MAHTO, MINES MANAGER & SHRI I K SINGH, SUR**
Official with
Designation
- (iv) Date of Inspection : 16/08/2015
- (v) Prev.inspection date : 22/06/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KOLMONG**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : KOLMONG
Taluka : BONAI
Post office : MALDA
Pin Code :
FAX No. :
E-mail :
Phone :
- (e) Police Station :
- (f) First opening date : 01/09/1939
2. Address for : KOLMONG MANGANESE MINE
correspondance VILL-KOLMONG, PO-KOIRA
DIST-SUNDERGARH
3. (a) Lease Number : ORI0197
(b) Lease area : 218.83
(c) Period of lease : 20
(d) Date of Expiry : 31/12/1999
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

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

Agent : D.R.OJHA
 C/O BICO LTD AT O.P.BARBIL
 KEONJHAR ORISSA
 Phone: 06596-62321,62221
 FAX :

Mining Engineer

Name : D.K.SAHA,Full Time
 Qualification : DEGREE IN MINING (AMIE)
 Appointment/ : 20/12/2000
 Termination date

Geologist

Name : H.MAZUMDER,Full Time
 Qualification : MSC(GEO)
 Appointment/ : 01/01/1986
 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
DIRECT		
Managerial	3	39
Others	9	39
Workers	37	39
Supervisory	5	39

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		5.99			
Water supply		4.57			
Sub total		10.56			
Infrastructure					
Roads			0.01		
Electricity			1.72		
Sub total			10.56		
Environment management			3.57		
Others			0.11		
Sports activities			0.14		
Training			1.96		
Total			18.07		

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

NO OUTSTANDING VIOLATION

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.

NO SUSPENSION NOR PROHIBITION OF DEPLOYMENT WAS RECOMMENDED.

5. Scientific Mining

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

a.Type of prospecting : 26 NUMBER OF
and exploration i.e. BOREHOLE
pitting, drilling

b.Total area covered :

NIL, AS THE MINE WAS
DISCONTINUED FROM
18.05.2014 TO 14.05.2015

OUT OF TOTAL LEASE AREA
113.375 HA THE LEASE
AREA EXPLORED AS PER
UNFC NORMS IS AS
FOLLOWS:
UNDER G1 LEVEL : 49.05
HA
UNDER G2 LEVEL 17.02 HA
REST UNEXPLORED AREA
47.305 HA PRIVATE
TENANTED LAND FOR WHICH
LESSEE IS IN PROCESS OF
GETTING PERMISSION FOR
EXPLORATION.

B. Working (Rule 13)

a.Number and size of :
each pit (LxWxH)

NEW PIT : 334 X 281 X 52 M MINING
OPERATION WAS
QUARRY 6&7 : 390 X 165 X DISCONTINUED
16 M FROM 18.05.2014
DHANDARIYA PIT : 231 X TO 14.05.2015.
153 X 28 M
MAGAZINE PIT : 138 X 102
X 12 M

b.Bench :
size(LxWxH)length can
be defined as
regular/irregular

HEIGHT 3 TO 4 M AND
WIDTH 6 TO 8 M.

c.Ore to waste ratio : 1: 16.6
pit wise if possible
otherwise for mine

1: 22.03

d.Total area covered : 43.677 HA
under excavation/pits

34.479 HA

C. Waste disposal (Rule 13)

a.Location of dumps :
DUMP 1, DUMP 2 & DUMP 3
ON NON- MINERALISED LAND

e.Yearly generation : 664057 CUM
of waste quantity.

64373 CUM

b.Method of dumping :
whether
advancing/retreat

RETREATING

c.Total area covered : 11 HA
under waste dump.

6.66 HA

d.No.and size of each :

DUMP 1 : 300 X 250 X 35

waste dump with No of steps/lift/bench

M WITH NO OF STEPS 2
 DUMP 2: 250 X 100 X 12 M
 DUMP 3 : 150 X 50 X 12 M

D. Production

b.Year wise : 2014-15 : 40001 MT PRODUCTION DURING 2014- MINE WAS
 production of last 2015-16: 25376 MT 15 : 2921.514 MT DISCONTINUED
 five year. PRODUCTION DURING 2015- FROM 18.05.2014
 16 (UP TO THE DATE OF TO 14.05.2015.
 INSPECTION) : 1538.37 MT

D. Reserve

a.Reserve position as : RESERVE POSITION AS PER
 per latest MP/MS and LATEST SCHEME OF MINING
 at the time of APPROVED ON 02.03.2015
 inspection. FOR THE PERIOD 2015-16
 TO 31.12.2019AND AT THE
 TIME OF INSPECTION IS AS
 FOLLOWS:
 AS PER UNFC 111 :
 1543124 MT HAVING 10%
 MN & ABOVE
 AS PER UNFC 122 : 247125
 MT HAVING 10% MN & ABOVE
 AS PER UNFC 221 : 24438
 MT HAVING 10% MN & ABOVE
 AS PER UNFC 332 : 838086
 MT HAVING 45% FE & ABOVE

RESERVE POSITION AS ON 01/04/2015

MANGANESE ORE		
Category	Quantity in Tonnes	Grade
Proved	1543124	+10%
Probable	247125	+10%
Possible	24438	+10%
Total	1814687	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
MANGANESE ORE	2921	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 STACKED SEPARATELY
THE LESSEE IS GOING TO ESTABLISH A MOBILE SCREENING PLANT IN THE MINE TO SCREEN THE LOW GRADE ORE FINES.

Efforts for improving percentage of recovery of ore. : BY MANUAL DRESSING, SIZING AND SORTING OF ORE.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : OVERALL RECOVERY OF ORE IS ABOUT 5% OF TOTAL EXCAVATION OF ORE ZONE

Number of benches in ore and waste. : NUMBER OF BENCHES IN ORE :13
NUMBER OF BENCHES IN WASTE : 4

Sub/grade mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : QUANTITY GENERATED DURING 2014-15 : 53 MT.
TOTAL QUANTITY AVAILABLE DURING INSPECTION 302 MT WITH GRADE 10-25 % MN

Number and size of each stack : 100 X 100M

Location of stacking. : S 550 & E 750

Separate stacking from waste : YES, SEPARATE STACKING FROM WASTE

Total area covered for stacking : ONE HA

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
180	39	

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	64273
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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. : THE AREA CONSIST OF UNDULATED TOPOGRAPHY LAND WITH FEW HILLOCKS WITH HIGHEST CONTOUR AT 621 M AND LOWEST AT 558 M.
- b. Aesthetic environment : THE TOTAL LEASE AREA CONSIST OF BOTH FOREST AND NON-FOREST LAND.
- c. Soil and land use pattern : OUT OF TOTAL APPLIED RML AREA 113.375 HA, THE BROKEN UP AREA IS 52.9 HA.
- d. Agriculture : NO AGRICULTURAL LAND IN THE LEASE AREA.
- e. Forest(flora and fauna) : COMMON ANIMALS AND BIRDS ARE FOUND.
- f. Vegetation : MAINLY BUSHES AND SHRUBS ARE FOUND.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : NO MONUMENTS OR PLACE OF TOURIST ETC.

B Water environment.

- a. Surface water : NEAREST SURFACE WATER SOURCE IS KUNDRA NALA WHICH FLOWS ON THE EASTERN SIDE OF THE LEASE AND IS ABOUT 0.5 KM AWAY FROM OUTSIDE MINING LEASE.
- b. Ground water : SOURCE OF GROUND WATER IN THE AREA IS DUG WELL AND TUBE WELLS.
- c. Quality of water : THE GROUND WATER IS SUITABLE FOR DRINKING AND DOMESTIC USE.

C. Air environment

- a. Noise : THE NOISE LEVEL IS UNDER PRESCRIBED LIMIT.
- b. Air : THE AIR POLLUTION IS MINIMISED BY SPRINKLING OF WATER ON HAUL ROADS AND USING WET DRILLING TECHNIQUE.
- c. Climatic condition : MAXIMUM TEMP GOES UPTO 45 DEGREE IN THE MONTH OF MAY AND IT FALLS DOWN UPTO 5 DEGREE IN THE MONTH OF DECEMBER.
THE AVERAGE ANNUAL RAINFALL IS 14.5 mm.

D. Socio economic environment

- a. Social and demographic profile. : THE NEARBY VILLAGES SUCH AS GONUA HAS 1245 POPULATION
KASIRA HAS 835 POPULATION
PATMUNDA HAS 818 POPULATION
MOST OF THE VILLAGERS ARE DEPENDENT ON MINING SECTOR.
- b. Recommending health and safety. : HEALTH CHECK-UP CAMPS ARE ORGANISED AND FREE MEDICINES ARE PROVIDED.
- c. Human settlement : DENSITY OF POPULATION IS LOW.
- d. Recreational facility. : GAMES AND SPORTS FACILITIES ARE PROVIDED
DISC ANTENA IS PROVIDED IN THE MINE CAMP AREA.

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.

ANNUAL RETURN FOR THE YEAR 2014-15 HAS BEEN RECEIVED AND SCRUTINISED.

COST OF OPERATION : Rs.2904.63 /-

PRODUCTION: 2921.514 MT

PIT MOUTH VALUE: Rs.6411.11 /- (25% TO 35% MN)

Rs.9557.53 /- (35% TO 46 %MN)

FIXED ASSETS: Rs.7872750.00 /-

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.

THE SUPPLEMENTARY LEASE DEED HAS BEEN EXECUTED ON 02.05.2015 EXTENDING THE LEASE PERIOD UPTO 31.03.2020.

SCHEME OF MINING HAS BEEN APPROVED ON 02.03.2015 FOR THE PERIOD 2015-16 TO 31.12.2019.

DGPS MAP HAS BEEN PREPARED BY OSAC DATED 09.04.2014.

ON VERIFICATION 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.

NO OUTSTANDING VIOLATION. DURING CURRENT INSPECTION NO FRESH VIOLATION WAS ISSUED.

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.

THE MINE OWNER HAS CARRIED OUT EXPLORATION AS PER UNFC NORMS IS AS FOLLOWS:

OUT OF TOTAL LEASE AREA 113.375 HA, THE LEASE AREA EXPLORED

UNDER G1 LEVEL 49.05 HA

UNDER G2 LEVEL 17.02 HA

BALANCE UNEXPLORED AREA 47.305 FA

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 WITHIN THE PRESENT PERIOD SO CLOSING OPERATION 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