

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/MCDR-9/BBS

Mine code : 40ORI08023

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri Abhijit Sen (CGM) and Sri R.K. Singh (Mines Manag
Official with
Designation
- (iv) Date of Inspection : 05/08/2015
- (v) Prev.inspection date : 20/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATASAI**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : KEONJHAR
Village : KATASAI
Taluka : BARBIL
Post office : CHORMALDA
Pin Code :
FAX No. : 91 6767 276161
E-mail : rungta_bbl@yahoo.co.in
Phone : 06767 275221 / 275481
- (e) Police Station :
- (f) First opening date : 13/02/1957
2. Address for : KATASAI MANGANESE MINE, M/S RUNGTA SONS (P) LTD
correspondance P.O.CHORMALDA, DIST :KEONJHAR
ORISSA-758035
3. (a) Lease Number : ORI0185
(b) Lease area : 196.86
(c) Period of lease : 20
(d) Date of Expiry : 12/02/2017
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/s Rungta Sons (P) Ltd
 Rungta House P.O.
 Chaisabasa SINGHBHUM
 (WEST) JHARKHAND
 Phone:(06582) 56861/56761
 FAX :91 6582 56442

Owner : RUNGTA SONS (P) LTD.
 RUNGTA HOUSE CHAIBASA
 SINGHBHUM (WEST) JHARKHAND
 Phone: 06582-56861,567
 FAX : 91-6582-56442

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

Mining Engineer

Name : R.C.B.SRIVASTAVA,Full Time
 Qualification : BE MINING
 Appointment/ :
 Termination date

Mining Engineer

Name : N.S.BANDARA,Full Time
 Qualification : PERMIT MANAGER
 Appointment/ :
 Termination date

Geologist

Name : S. GHOSH,Full Time
 Qualification : M.SC GEOLOGY, M.TECH IN MINERAL EXPLORAT
 Appointment/ : 16/10/2000
 Termination date

Geologist

Name : S.RAHA,Full Time
 Qualification : M.Sc (GEO)
 Appointment/ :
 Termination date

Manager

Name : N.S.BANDARA
 Qualification : PERMIT MANAGER
 Appointment/ :
 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	4	306
Supervisory	6	304
CONTRACT		
Workers	7	307
Others	11	304

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	24.23	2.18	0.00		
Water supply	7.50	7.60	0.00		
Sanitation	3.20	3.00	2.20		
Sub total	34.93	12.78	2.20		
Infrastructure					
Public transport	2.46	2.74	2.01		
Sub total	2.46	2.74	12.78		
Recreation	0.30	1.09	0.30		
Environment management	8.34	0.48	8.34		
Training	4.09	2.88	3.98		
Total	50.12	9.39	27.41		

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

No outstanding violation.

During current inspection violation of rule 13(1) was observed and communicated to lessee vide this office letter of even number dated 14.08.2015. the same was also handed over to Mine Manger during site inspection on 05/08/2015.

In respect of violation letter dated 05/08/2015 party has submitted the reply/compliance vide letter datde 14/08/2015, found to be satisfactory.

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 applicable.

5. Scientific Mining

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

a.Type of prospecting : 2014-15: 70 BH and exploration i.e. pitting, drilling		2014-15: 21 BH	
b.Total area covered : Not specified.		As per approved SOM dated 07.04.2015 area covered under G1 exploration is 102.80 hectare, G2 : 7.26 Hectare and in level G3 : 86.80 hectare.	

B. Working (Rule 13)

a.Number and size of each pit (LxWxH)	Proposal has been given to work in five pits.	Work has been done in two pits only i.e. Nala Pit and G.S. Pit.	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Regular.	Regular.	
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:9.1	1:2.39	
d.Total area covered under excavation/pits	: 57.026 Ha	44.48 Ha	

C. Waste disposal (Rule 13)

a.Location of dumps	: Dump 1: N350 &W200 Dump 2: N1150 &W1450	Dump 1: N350 &W200 Dump 2: N1150 &W1450	
e.Yearly generation of waste quantity.	: 2014-15: 175727 m3	2014-15: 850 m3	
b.Method of dumping whether advancing/retreat	: Reteating.	Reteating.	
c.Total area covered under waste dump.	: 9.3 Ha	7.039 Ha	
d.No.and size of each waste dump with No of steps/lift/bench	: Dump D1: 300x190x24 m Dump2: 220x180x18 m	Dump D1: 230x130x12 m Dump2: 200x140x12 m	

D. Production

b.Year wise production of last five year.	: 2010-11: 19407 2011-12: 24937 2012-13: 13469 2013-14: 15265: 2014-15: 19291	2010-11: 1350.50 2011-12: 1826.20 2012-13: 223.41 2013-14: 870.36 2014-15: 317.62	All data as per approved SOM dated 07.04.2015. Figures area in tonnes.
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D. Reserve

a. Reserve position as : Reserve and
per latest MP/MS and resource as per
at the time of approved SOM dated
inspection. 07.04.2015 is as
follows:

RESERVE POSITION AS ON 01/04/2015**MANGANESE ORE**

Category	Quantity in Tonnes	Grade
Proved	302467	+10% Mn
Probable	18518	+10% Mn
Possible	425830	+10% Mn
Total	746815	+10% Mn

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

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

Efforts for improving low grade and sub grade mineral. : Manual sorting and Sizing is proposed.

Efforts for improving percentage of recovery of ore. : Manual sorting and Sizing is proposed.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : Proposed recovery is 7% of total excavation, however, recovery for the year 2014-15 was 14 % of total excavation.

Number of benches in ore and waste. : OB:2 Bench
ORE: 2 Bench

Sub/grade mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : During year 2014-15 a total quantity of 3858.53 tonnes of Sub-grade Manganese ore was proposed, however, NIL quantity was generated.

Number and size of each stack : NIL.

Location of stacking. : No stack is available.

Separate stacking from waste : Proposed for separate stacking.

Total area covered for stacking : NIL.

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
365		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	850
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Utilisation of Sub Grade Mineral and Mineral Rejects

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)

7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : Hilly undulated.
- b. Aesthetic environment : Good.
- c. Soil and land use pattern : Mostly area is covered with lateritic soil.
- d. Agriculture : Not observed.
- e. Forest(flora and fauna) : Local species of Flora nad Fauna.
- f. Vegetation : Less.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Not observed.

B Water environment.

- a. Surface water : The nearest surface water source is Kundra Nala.
- b. Ground water : Not intersected.
- c. Quality of water : Potable.

C. Air environment

- a. Noise : under prescribed limit.
- b. Air : Negligible effect.
- c. Climatic condition : Tropical.

D. Socio economic environment

- a. Social and demographic profile. : Mostly tribal area.
- b. Recommending health and safety. : Health checkup camps are organized and free medicines are provided.
- c. Human settlement : Low.
- d. Recreational facility. : Not observed.

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.

Within lease area			Outside lease area		
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate
8	10000	60			

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.

Scrutiny of annual return 2014-15:

Production of Manganese Ore: 317.626 MT

Cost of Operation: 57474.35 Rs./per Tonne

Ex mine Price:7080.75 Rs/Tonne (25 to 35% Mn) and 11803.20 Rs/Tonne (35 to 46% Mn)

STOCK: 4415.93 Tonnes.

Value of Fixed Assets: Rs.1870490/-

Reserve: 320985 Tonnes.

Resource:425830 Tonnes.

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.)

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 :

(DILIP JAIN)

Indian Bureau of Mines