# 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 : 400RI08023

(i) Name of the Inspecting : DEY ) NARENDRA MOHAN DEY

Officer and ID No.

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine :

Official with Designation

(iv) Date of Inspection : 20/09/2014
(v) Prev.inspection date : 16/07/2011

#### 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. :
E-mail :
Phone :

(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 : ORIO185 (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

# 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
Others	4	306
Workers	7	306
Supervisory	3	306

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

Action during the year	Expenditure in Rs. Lakhs for			Remarks	
	previous year current year		_		
	Proposed	Incurred	Proposed	Incurred	
<b>General</b> Health	0.33	0.33	0.33	0.33	HEALTH, SAFETY A
Sub total Infrastructure	0.33	0.33	0.33	0.33	
Sub total			0.33		
Recreation	0.05		0.02	0.02	RECREATION AND O
Environment management	1.40	1.40	1.40	1.40	
Training	23.75	0.10	23.75	23.75	TRAINING ( EDUCA
Others		5.00	3.92	3.92	
Total	25.53	6.83	29.42	29.42	

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, 19888, if recommended.

#### 5. Scientific Mining

Items	Proposal	Actual work done	Remarks

#### A. Exploration (Rule 13)

a. Type of prospecting: THERE WAS PROPOSAL NO BOREHOLE WAS DRILLED and exploration i.e. TO DRILL 52 NO pitting, drilling BOREHOLES DURING 2013-14.

DUE TO WANT OF WORKING PERMISSION IN THE DIVERTED FOREST AREA AFTER TREE FELLING FOR EXECUTION OF EXPLORATION WORK AS ENVISAGED IN THE SCHEME OF MINING.

b.Total area covered : NIL

### B. Working (Rule 13)

a.Number and size of : NUMBER OF PITS : NALA PIT : 203 X 91 X 14

each pit (LxWxH)

NALA PIT : 244 X G S PIT : 182 X 133 X 15 98 X 20 M, G S PIT M

: 220 X 180 X 15 M ROLA PIT : 200 X 110 X 6 M, BOTTOM PIT : 160 X 120 X 9 M

b.Bench : HEIGHT : 3 TO 4 M, HEIGHT : 3 TO 4 M, WIDTH

size(LxWxH)length can WIDTH: 6 TO 8 M : 6 TO 8 M.

be defined as regular/irregular

c.Ore to waste ratio :1:9.57 1 : 5.78

pit wise if possible otherwise for mine

d.Total area covered : 57.026 HA ( AT TE 44.486 HA

under excavation/pits END OFSCHE ME

PERIOD )

# C. Waste disposal (Rule 13)

a.Location of dumps : DUMP D1 : N 350 & DUMP D1 : N 350 & W 200

W 200

DUMP D2 : N1150 & W

DUMP D2: N1150 & W 1450.

1450

e.Yearly generation : 146098 CUM 5034 CUM

of waste quantity.

b.Method of dumping : RETREATING RETREATING

whether

advancing/retreat

c.Total area covered : 9.3 HA AT TEH END 7.039

under waste dump. SCHEME OERIOD

d.No.and size of each: DUMP 1: 300 X 190 DUMP D1: 230 X 130X 12

waste dump with No of X 24 M

steps/lift/bench DUMP D2 : 220 X DUMP; 200 x 140 x 120 M

180 X 18 M

SUBSEQUENT

MINING APPROVED

SCHEME OF

2015-16 TO

12.02.2017.

#### D. Production

b.Year wise production of last five year.

: PRODUCTION PROPOSAL FOR THE YEAR 2013-14 : 15265.4 TONNE PRODUCTION

YEAR 2014-15 : i.e AUGUST, 2014 : 19291 TONNE

ACTUAL PRODUCTION ACHIEVED DURING 2013-14 : 870.360 TONNE.

ACHIEVED DURING 2014-15 PROPOSAL FOR THE UPTO DATE OF INSPECTION

63.084 TONNE

ACTUAL PRODUCTION

#### D. Reserve

a.Reserve position as: per latest MP/MS and at the time of inspection.

AT THE TIME OF INSPECTION RESERVE POSITION AS ON 01.04.2014 AS PER LATEST ON 07.04.2015 APPROVED MODIFICATION OF FOR THE PERIOD

APPROVED SCHEME OF MINING VALID FOR THE PERIOD 2012-13 TO 2014-

15 , APPROVED ON

12.04.2013 IS AS FOLLOWS

PROVED: 302787.64 TONNE HAVING GRADE 25%

MN & ABOVE

PROBABLE: 18518 TONNE HAVING GRADE 25% MN &

ABOVE

POSSIBLE: 441153 TONNE HAVING GRADE 10% MN &

ABOVE

#### RESERVE POSITION AS ON 01/04/2014

MANGANESE (	ORE	
Category	Quantity in Tonnes	Grade
Proved	302787.64	25% MN & ABO
Probable	18518	25% MN & ABO
Possible	441153	10% MN & ABO
Total	762458.64	

	PRODUCTION FOR THE I	PREVIOUS YEAR	2013 - 2014
Mineral	Prod	duction Unit	
MANGANESE ORE		870.36 TON	

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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. : AS THE LOW GRADE ORE IS HIGHLY CONTAMINATED WHICH IS NOT PHYSICALLY SEPARABLE, BENEFICIATION OF SUB-GRADE

LUMP ORE IS NOT DONE.

NO BENEFICIATION OF ORE IS BEING DONE AT THE MINE. ONLY EFFORTS OF IMPROVING BY MANUAL DRESSING SIZING AND SORTING OF ORE.

#### Minearl Rule 15

Number of benches in ore and : NUMBER OF BENCHES IN ORE : 04 waste.

NUMBER OF BENCHES IN WASTE: 02

Percentage of recovery of ore: OVERALL RECOVERY OF ORE IS ABOUT 10 %.

pitwise w.r.t. ROM and total

material

Sub/grd mineral/fines (Rule16)

Separate stacking from waste : SEPARATE STACKING OF SUB GRADE TEMPORARILY IN THE MINE SITE.

#### Exploration data as on 31/03/ 2014

No. of Boreholes

No. of Pits

No. of Trenches

344

# OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overbuden/waste removed (in m3) : 5034

### 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 ( 70.7601

HA) AND NON-FOREST (31.535 HA) LAND.

d. Agriculture : NO AGRICULTURAL LAND IN THE AREA.

e. Forest(flora and fauna) : COMMON ANIMALS AND BIRDS ARE FOUND

f. Vegetation : NO PROMINANT VEGETATION EXIST EXCEPT BUSHES AND

SHRUBS ARE FOUND.

B Water environment.

a. Surface water : NEAREST SURFACE WATER SOURCE IS KUNDRA NALA WHICH

FLOWS ON THE SOUTHERN SIDE OF THE LEASE AND IS ABOUT

1.5 KM FROM OUTSIDE THE M L AREA.

c. Quality of water : THE GROUND WATER IS SUITABLE FOR DRINKING AND

DOMESTIC USE.

C. Air environment

a. Noise : NOISE LEVEL IS UNDER PRESCRIBED LIMIT.

b. Air : THE AIR POLLUTION IS CONTROLLED BY USING MOBILE

SPRINKLING SYSTEM OF WATER ON HAUL ROADS AND USING

WET DRILLING TECHNIQUES AT MINE FACES.

c. Climatic condition : MAXIMUM TEMP GOES UPTO 45 IN THE MONTH OF MAY AND IT

FALLS DOWN UPTO 5 DEGREE CENTIGRADE IN THE MONTH OF

DECEMBER.

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 Management Value				
Season	Station type	Station name	Parameter	Actual Excess

		Air data for excess parameters		 _
Season	Station name	Type of area	Parameter	 lue Excess

# PLANTATION DURING THE PREVIOUS YEAR 2013 - 2014 Area in Hect.

## TOP SOIL MANAGEMENT

Quantity as on 31/03/2014

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 2013-14 WAS SCRUTINISED.

PRODUCTION: 870.36 TONNE

COST OF OPERATION: Rs.7764.72 PER TONNE

PIT MOUTH VALUE: RS.6534.50 FOR 25 % TO 35 % MN AND Rs.9676.88 FOR 35% TO 46% MN

STOCK : 870.360 TONNE

OUT OF TOTAL LEASE AREA 196.86 HA THE BROKEN UP AREA IS 58.89 HA

FIXED ASSETS: Rs.1440830. / -

RESERVE : 321305 TONNE

#### 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.

MINING LEASE WAS GRANTED ON 13.02.1997 FOR THE PERIOD 20 YEARS UPTO 12.02.2017. ON THE DATE OF INSPECTION MODIFICATION OF APPROVED SCHEME OF MINING WAS VALID FOR THE PERIOD 2012-13 TO 2014-15, APPROVED ON 12.04.2013

.BOUNDARY PILLARS HAVE BEEN CONSTRUCTED. CORNER BOUNDARY ARE PYRAMID SHAPED. GPS READING HAVE BEEN MENTIONED ON THECORNER BOUNDAY PILLAS. DGPS MAP HAVE BEEN PREPARED BY OSAC.

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

DURING CURRENT INSPECTION NO VIOLATION WAS POINTED OUT.

NO OUTSTANDING VIOLATION.

VIOLATION POINTED OUT ON 11.03.2013 ON THE BASIS OF INSPECTION ON 09.02.2013 , REPORTED COMPLIANCE WAS RECEIVED ON 08.04.2013 AND HAS ALREADY BEEN CONSIDERED AS COMPLIED ON 09.06.2013.

c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.

#### 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