

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-49/BBS

Mine code : 30ORI08071

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri P. K. Mohanty (Manager Mines)
Official with
Designation
- (iv) Date of Inspection : 28/07/2015
- (v) Prev.inspection date : 16/11/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ROIDA (185 AC)**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : KEONJHAR
Village : TONTO (TANTRA)
Taluka : CHAMPUA
Post office : BHADRASAHI
Pin Code : 758035
FAX No. :
E-mail :
Phone : 06767-275225
- (e) Police Station :
- (f) First opening date : 22/04/1958
2. Address for : ROIDA IRON MINE (185AC) OF K.N.RAM
correspondance AT-TROANTO
PO-BHADRSAHI, DIST-KEONJHAR
3. (a) Lease Number : ORI0069
(b) Lease area : 74.86
(c) Period of lease : 30
(d) Date of Expiry : 02/09/1987
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : K.N.RAM&CO
 AT/PO-GUA DIST-SINGHBHUM
 WEST JHARKHAND SINGHBHUM
 (WEST) JHARKHAND
 Phone:
 FAX :

Owner : K.N.RAM
 AT/PO-GUA SINGHBHUM (W)
 JHARKHAND SINGHBHUM (WEST)
 JHARKHAND
 Phone:
 FAX :

Mining Engineer

Name : MD. MUSTAFA, Part Time
 Qualification : A.I.S.M (MINES)
 Appointment/ : 01/09/1979
 Termination date

Mining Engineer

Name : B.BEHERA, Full Time
 Qualification : DEPLOMA IN MINING& HAVING FOREMEN CERTI
 Appointment/ : 16/04/2004
 Termination date

Mining Engineer

Name : P.B.LAL, Full Time
 Qualification : AMIE MINING ENGG
 Appointment/ : 12/11/2002
 Termination date

Mining Engineer

Name : G.C.DAS, Full Time
 Qualification : DIPLOMA MINING
 Appointment/ : 01/01/2001
 Termination date

Mining Engineer

Name : G.S.BEHERA, Full Time
 Qualification : BE MINING
 Appointment/ : 01/12/2003
 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		
Plant	19	39

Managerial	16	39
Supervisory	17	39
Others	81	39
Workers	52	39
CONTRACT		
Supervisory	1	39
Workers	35	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					
Health	24.90	24.90	58.00	0.20	
Sanitation	5.50	0.50	5.50	0.06	
Housing	13.50	0.50	13.50	0.00	Expenditures as
Water supply	15.00	15.00	46.00	1.80	
Sub total	58.90	40.90	123.00	2.06	
Infrastructure					
Public transport	67.50	42.50	17.50	1.50	
Sub total	67.50	42.50	40.90	1.50	
Recreation	6.00	8.00	3.50	3.00	
Employment	353.00	353.00	353.00	0.00	
Training	9.30	26.00	1.30	0.00	
Environment management	21.50	12.00	2.79	0.10	
Total	516.20	564.50	418.99	6.66	

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

After last inspection on 23.12.2014, No Violation was pointed out.

During current inspection, Violation of rule 13(1) of MCDR,88 was observed and communicated to the party vide this office letters of even no., dtd. 18.08.2015.

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.

Not being recommended at present.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a.Type of prospecting : 3 nos of Bore and exploration i.e. hole. pitting, drilling		Nil	In Scheme period (2012-13 to 2014-15) 11 BHs proposed & 14 BHs completed up to 2013-14.
b.Total area covered : 3 Ha		Nil	
B. Working (Rule 13)			
c.Ore to waste ratio : 1 : 0.018 pit wise if possible (Mines) otherwise for mine		1 : 1.003 (Mines)	
b.Bench size(LxWxH)length can be defined as regular/irregular	: W= 12m H=8 m	W=11 m H=7 m approx.	
a.Number and size of each pit (LxWxH)	: 02 pits, namely Q6 & Q2	02 pits, namely Q6 & Q2	Mine working reported discontinued /suspended from 17 May 2014 to May 2015 due to pending RML, abiding the order of State Govt. wrt. Hon'ble Supreme Court order
d.Total area covered under excavation/pits a year	: Not specified for a year	About 34.5 hect. cumulative	As mentioned in approved SoM
C. Waste disposal (Rule 13)			
a.Location of dumps	: 280E-550E & 210N-120S	280E-550E & 210N-120S	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	
c.Total area covered under waste dump.	: Not specified for a year	About 7.0 hect	As mentioned in approved SoM
d.No.and size of each waste dump with No of steps/lift/bench	: 1 no, 2 steps/ lifts	1 no, 3 steps/ lifts	Violation issued in this regard
e.Yearly generation of waste quantity.	: 40500 m3	150330 m3 (300660 te)	

RESERVE POSITION AS ON 01/04/2015PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	90377	TON

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

Efforts for improving low grade and sub grade mineral. : At the time of production/ excavation The low/sub-grade is blended with the high grade ore.

Efforts for improving percentage of recovery of ore. : Sorting & screening

Mineral Rule 15

Percentage of recovery of ore : 100 wrt. ROM
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : Q6 : ore-13 waste-NIL
Q2 : ore-8 waste-3

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : In 2014-15=1561 MT
(below 55% fines)

Number and size of each stack : 1 no.

Location of stacking. : 300N - 100W

Separate stacking from waste : Yes

Total area covered for stacking : About 0.5 hect

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
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OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)
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7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The Lease hold area is a hilly terrain , sloping from south to North and a valley in the middle of the lease hold area.
- b. Aesthetic environment : Plantations has been done inside the lease at places to improve Aesthetic environment.
- c. Soil and land use pattern : Top soil as generation negligible.
- d. Agriculture : The agriculture in the buffer zone is very negligible.
- e. Forest(flora and fauna) : Local species; controlled blasting practiced for not disturbing to fauna.
- f. Vegetation : Maximum lease area covered under bush and shrub type of vegetation.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Does not exist.

B Water environment.

- a. Surface water : Monitoring being carried out regularly & parameters are within the permissible limit.
- b. Ground water : Not Intersected yet by mining.
- c. Quality of water : The water quality monitoring being carried out regularly at core and buffer zone, parameters are within the permissible limit.

C. Air environment

- a. Noise : Monitoring being carried out regularly & parameters are within the permissible limit. Various measures have been implemented to prevent noise pollution like Provision of ear plugs and ear muffs, Use of silencers/mufflers in HEMM & Control blasting.
- b. Air : As per quarterly monitoring results, maximum SPM was

found in the lease area and minimum value was found in at nearest village Tonto, but all parameters are within prescribed .

- c. Climatic condition : The predominant wind direction were SW over 21.6 % of the time in which speed of 1.00 to 19.0 KM/Hr. was recorded and NW over 21.6 % of the time in which 1.00 to 29.0KM/Hr. The maximum and minimum temperature (46°C to 20°C), relative humidity (69% to 42 %) & rain fall (1000 mm to 1500 mm)/annum recorded during the season.

D. Socio economic environment

- a. Social and demographic profile. : Mostly tribal population and were engaged in mines directly or indirectly.
- b. Recommending health and safety. : As reported, company is arranging twice /week health camp with Doctors, Pharmacists and free medicines. One Ambulance has been stationed for round the clock service.
- c. Human settlement : Not within lease area
- 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.

<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.

- (1) Cost of operation: Rs 1532.41/tonne
- (2) Reserve/Resource : 42.4 mill. te., as on 01.04.2015
- (3) Production: 90377 MT
- (4) Pit's Mouth Value:
 - Size ore +62-65% = Rs 4036/tonne
 - Size ore +60-62% = Rs 3338/tonne
 - Fines +60-62% =Rs 1737/tonne
 - Fines +62-65% =Rs 2100/tonne
- (5) Stock: 374423.370MT [280598.370(processed ore) & 93825.000 (ROM)]as on 1.4.2015

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.)

A copy of violation letter dtd. 18.08.2015 endorsed to Director of mines, Odisha.
The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

Nil

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines