

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-43/BBS

Mine code : 30ORI08040

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. A. K. Bhuyan (G. M. Mines)
Official with
Designation
- (iv) Date of Inspection : 27/07/2015
- (v) Prev.inspection date : 10/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NUAGAON**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : GUALI
- Taluka : BARBIL
- Post office : GUALI
- Pin Code : 758035
- FAX No. : 06767-275659
- E-mail :
- Phone : 06767-275348,275659
- (e) Police Station :
- (f) First opening date : 01/01/1959
2. Address for : VILL% PO: GUALI
correspondance POLICE STATION :BARBIL
DIST: KEONJHAR,ORISSA,PIN:758035
3. (a) Lease Number : ORI0070
- (b) Lease area : 767.28
- (c) Period of lease : 20
- (d) Date of Expiry : 03/03/1999
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : K.J.S.AHLUWALIA
 AT/PO.BARBIL KEONJHAR
 ORISSA
 Phone:
 FAX :

Owner : K.J.S AHLUWALIA
 AT/PO. BARBIL P.B NO.3
 KEONJHAR ORISSA
 Phone: 06767 75348,756
 FAX : 06767-30348, 30

Mining Engineer

Name : Manoj Kumar, Full Time
 Qualification : BE Mi ning
 Appointment/ : 12/08/2012
 Termination date

Mining Engineer

Name : A.K.BHUYAN, Full Time
 Qualification : DEGREE MINING
 Appointment/ : 10/09/2003
 Termination date

Geologist

Name : Ratikant Mohanta, Full Time
 Qualification : Msc Geo
 Appointment/ : 13/08/2012
 Termination date

Manager

Name : L.N.BISWAL
 Qualification : PERMIT MANAGER
 Appointment/ : 08/11/1998
 Termination date

6. Date of approval of Mining : 22/07/2014
 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	27	40
Workers	249	40
Supervisory	37	40
Others	7	40
CONTRACT		
Others	118	40
Supervisory	20	40
Workers	33	40

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					
Sanitation	5.00	0.50	1.00	1.50	Expenditures as
Housing	30.00	22.40	25.00	10.00	
Water supply	15.00	6.60	10.00	5.00	
Health	15.00	13.27	15.00	5.00	
Sub total	65.00	42.77	51.00	21.50	
Infrastructure					
Public transport	1.00	0.50	0.13	0.30	
Sub total	1.00	0.50	42.77	0.30	
Training	10.00	10.00	9.31	3.00	
Recreation	25.00	25.00	20.00	5.00	
Employment	3.00	2.50	1.75	0.75	
Others	13.00	13.00	0.00	1.00	
Environment management	20.00	20.00	14.10	4.00	
Total	137.00	122.00	88.06	35.55	

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

After last inspection on 10.09.2014, No Violation was pointed out.

Based on current inspection & office records, 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 & 31.08.2015.

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, 19888, if recommended.

Not being recommended at present.

5. Scientific Mining

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

b.Total area covered	: 37 Ha.	Nil	
a.Type of prospecting and exploration i.e. pitting, drilling	: 37 nos of bore hole	Nil	Mine working reported discontinued /suspended from 17 May 2014 to May 2015 due to pending RML, abiding the order of Hon'ble Supreme Court & State Govt.

B. Working (Rule 13)

b.Bench size(LxWxH)length can be defined as regular/irregular	: Bench size : Height - 6 to 8 m, width more than height of around 12 m	Bench size : Height - 6 to 7 m, width more than height.	Almost regular
a.Number and size of each pit (LxWxH)	: In 2014-15, excavation /working proposed from 04 Blocks	Excavation/working confined to these 04 Blocks	Mine working reported discontinued /suspended from 17 May 2014 to May 2015 due to pending RML, abiding the order of Hon'ble Supreme Court & State Govt.
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:0.038	1:0.006	
d.Total area covered under excavation/pits a year	: Not specified for a year	About 152.655Ha. cumulative	As mentioned in approved SoM

C. Waste disposal (Rule 13)

a.Location of dumps	: * PD1 - 141N-330N/1140W-940W *PD2 - 465N-1640N/350E-590E *PD3-	Nil	Dumping not carried out during the year at the proposed site due to stoppage of mining
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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. : Blending with high grade materials & beneficiation for up- gradation.

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

Mineral Rule 15

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

Number of benches in ore and waste. : 1. Barapada block - 13 no's Benches in ore & 2 no. Bench in Waste.
2. Katasahi block - 9 no's Benches in ore & 1 no. Bench in Waste.
3. Topadihi block - 8 no's Benches in ore & 1 no. Bench in Waste.
4. Dumka block - 10no's Benches in ore & 1 no. Bench in Waste.
5. Kanhusahi block - 7 no's Benches in ore & 1 no. Bench in Waste.
6. Guali block - 4 no's Benches in ore & 1 no. Bench in Waste.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Sub grade Production 2014-15 - 24930.000 Tones (55-58% Fe fines)

Number and size of each stack : As mentioned in approved SoM

Location of stacking. : B. Bottom, Topadihi, katasahi, kanhusahi, D- top, Sonukucha, chenagoda, Dhabalgiri and Guali.

Separate stacking from waste : Yes

Total area covered for stacking : About 49 Ha.

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 M.L. area has an undulating topography mainly hilly and some plane area .
- b. Aesthetic environment : Satisfactory
- c. Soil and land use pattern : Top soil as and when generated being stored and utilized for plantation program. During year 2014-15:
Generated - Nil
Utilized - 33m3
Stacked- 85m3
- d. Agriculture : The agriculture activity is very less and not near to mining activity.
- e. Forest(flora and fauna) : Local species
- f. Vegetation : Scattered vegetation
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : One small Temple at Udalwari built by lessee.

B Water environment.

- a. Surface water : Monitoring being carried out regularly & parameters are within the permissible limit.
Total 7 nos of water sampling station have been demarcated for Surface water monitoring in Buffer zone area.
- b. Ground water : Not Intersected yet by mining. For recharge of ground water, one roof top rain water harvesting system made at Guali area and another system near camp.
- c. Quality of water :
Monitoring being carried out regularly & 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 : Monitoring being carried out regularly & parameters are within the permissible limit.

- c. Climatic condition : Average rainfall 1200-1400 mm and temperature in summer 34°C to 43°C, winter 4°C to -25°C. The annual average relative humidity is 65%.

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. : A health centre is provided, where medical checkup and medicine has been provided to villagers & employees.
- c. Human settlement : Not within lease area. except few employees residence m & office.
- d. Recreational facility. : Sports materials reported being distributed to local school, & local youth club and Arranging local sports tournaments through the youth club.

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 910.580/mt

(2) Reserve 60.5 mill. te (111)

(3) Production 1066453.26 MT

(4) Pit's Mouth Value Rs. 4028.00 - 62-65%Fe (lumps) & Rs2041.00 - 62-65%Fe (Fines) per te

(5) Stock ROM-Nil, Processed ore- As per AR-2014-15 submitted

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 & 31.08.2015 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