INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-83/BBS Mine code : 300RI08107

(i) Name of the Inspecting : $D \psi 03$) DILIP JAIN

Officer and ID No.

(ii) Designation : Junior Mining Geologist

(iii) Accompaning mine : R C Jena , Mines Manager

Official with Designation

(iv) Date of Inspection : 02/05/2014
(v) Prev.inspection date : 01/11/2013

PART-I : GENERAL INFORMATION

. (a) Mine Name : KULUM

(b) Category : A Other than Fully Mech.

(c) Type of Working : Opencast

(d) Postal address

State : ORISSA

District : KEONJHAR

Village : KULUM

Taluka : BARBIL

Post office : DEOJHAR

Pin Code : 758034

FAX No. :
E-mail :
Phone :

(e) Police Station

(f) First opening date : 01/12/2011

2. Address for : KULUM correspondance KEONJHAR

3. (a) Lease Number : ORI1035 (b) Lease area : 33.8 (c) Period of lease : 30

(d) Date of Expiry : 15/05/2041

4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S ADHUNIK METALIKS

IDICOL HOUSE SAHIDNAGAR, BHUBANESWAR KEONJHAR

ORISSA Phone: FAX :

Owner : ADHUNIK METALIKS

KEONJHAR ORISSA

Phone: FAX:

6. Date of approval of Mining : 06/12/2012

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 DIRECT	No.of employment	Av. yearly working days
Managerial	4	306
Workers	15	306
Supervisory	1	306
Others	9	306
CONTRACT		
Others	1	306
Supervisory	1	306
Workers	82	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 curre		current	year	-
	Proposed	Incurred	Proposed	Incurred	_
General Sanitation		1.00		1.00	
Housing	5.00		3.40		
Water supply	2.00	2.00	2.00	2.00	all data as per
Sub total Infrastructure	7.00	3.00	5.40	3.00	
Roads	39.00	38.20	20.00	15.00	Public transport
Sub total	39.00	38.20	3.00	15.00	
Recreation	5.50	4.80	6.00	4.00	
Training	1.50	1.50	1.50	1.00	
Employment	40.00	66.40	65.00	66.50	
Environment management	1.50	2.50	1.50	1.00	
Others	10.00	8.50	10.00	7.00	(For one LMV and
Total	104.50	127.30	107.00	97.50	

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

On the basis of scrutiny of office record, violation of Rule 13(1) and 23E(2) were observed and communicated to lessee vide this office letter of even number dated 22.10.2013.

During current inspection violation of rule 13(1), 23E(2), 29 and 45(7) has been observed including outstanding violation and same has been communicated to party vide this office letter of even number dated 01.07.2014. Violation pointed out has been complied by party vide his letter dated 30.07.2014. Further in compliance of violation pointed out lessee submitted Modification of Mining Plan and same has been approved on dated 30.01.2015.

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 applicable.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks		
A. Exploration (Rule 13)					
<pre>a.Type of prospecting : : and exploration i.e. : pitting, drilling</pre>	2012-13: 08 ВН 2013-14: 09 ВН	2012-13: 08 BH 2013-14: 08 BH			
b.Total area covered : I	Not specified.	Not specified.			
B. Working (Rule 13)					
a.Number and size of : I each pit (LxWxH)	Not specified.	2	As per surface plan.		
<pre>b.Bench : I size(LxWxH)length can be defined as regular/irregular</pre>	Regular.	Regular.			
<pre>c.Ore to waste ratio :: pit wise if possible otherwise for mine</pre>	1:0.07		As per MCDR data sheet.		
<pre>d.Total area covered : ! under excavation/pits</pre>	5.040 Hectare	5.040 Hectare			
C. Waste disposal (Rule 2	13)				
±	South eastern side.	South eastern side.			
	2012-13: 18600 CuM 2013-14: 38000 CuM				
<pre>b.Method of dumping : I whether advancing/retreat</pre>	Retreating Method.	Retreating Method.			
<pre>c.Total area covered : 0 under waste dump.</pre>	5.510 Hectare.	0.50 Hectare. (approx)			
<pre>d.No.and size of each : No waste dump with No of steps/lift/bench</pre>	Waste dump-1	-	as per surface plan.		
D. Production					
	2012-13: 140400 MT 2013-14: 241000 MT				
D. Reserve					
a.Reserve position as: per latest MP/MS and at the time of inspection.		Reserve and resource as per MMP dated 06.12.2012.			
RF	SERVE POSTTION AS O	N 01/04/2014			

RESERVE POSITION AS ON 01/04/2014

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	3932976	+45 % Fe
Probable	3155472	+45 % Fe
Possible	2095408	+45 % Fe
Total	9183856	+45 % Fe

	PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014	
Mineral	Production Unit	
IRON ORE	30955 TON	

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6. Conservation of Mineral - both quantitative and qualitative

Beneficiation (Rule 20 and 26)

Efforts for improving low

: Beneficiation plan is proposed.

grade and sub grade mineral.

Efforts for improving percentage of recovery of ore.

: Beneficiation plan is proposed.

Minearl Rule 15

Number of benches in ore and : Ni information.

Percentage of recovery of ore: 20% in insitu Zone. pitwise w.r.t. ROM and total 50% in Float Ore Zone.

material

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and : 2013-14: 18534 MT

total qty available during

inspection with grade

Number and size of each stack: No information.

Separate stacking from waste : Yes.

Total area covered for : No information.

stacking

Exploration data as on 31/03/ 2014

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

16

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overbuden/waste removed (in m3): 3675

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.

: Hilly undulated.

b. Aesthetic environment

: Good.

c. Soil and land use

: Forest area: 21.497 Ha

pattern

non-forest: 12.306 Ha

d. Agriculture

: Not observed.

e. Forest(flora and fauna)

: Local species of Flora and fauna.

f. Vegetation

: Small bushes and trees are observed.

h. Public building, places and monuments (protected, historical), placec of worship and places of tourist

: Not observed.

B Water environment.

a. Surface water

: No major river or nala flowing in the lease area. However, some surface run off mark have been observed in NE part of lease area.

b. Ground water

: No information.

c. Quality of water

: No information.

C. Air environment

a. Noise

: Seems to be within prescribed limit as low level of Mining operation.

b. Air

: There is no industrial activity in vicinity, hence air pollution felt to be below prescribed limit.

c. Climatic condition

: Sub-tropical.

D. Socio economic environment

a. Social and demographic profile.

: No information.

b. Recommending health and : Not specified. safety.

c. Human settlement

: Limited.

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.

		Water Management	<u>t</u>	Value
Season	Station type	Station name	Parameter	Actual Excess

Air data for excess parameters Value Parameter $\overline{\text{Actual Excess}}$ Season Station name Type of area

PLANTATION DURING THE PREVIOUS YEAR 2013 - 2014

Area in Hect.

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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.

Scrutiny of annual return 2013-14:

Cost of production: 1113.91 Rs./MT

Reserve: 5.70 Million Tonnes Resorce: 5.31 Million Tonnes Production: 30955.00 MT

Area in forest: 21.497 Hectare Area in non-forest: 12.306 hectare

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