

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-54/BBS

Mine code : 30ORI08050

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 25/02/2016
- (v) Prev.inspection date : 06/06/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THAKURANI**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : KEONJHAR
Village : DALKI
Taluka : BARBIL
Post office : THAKURANI
Pin Code : 758035
FAX No. : 06767 270049
E-mail : kjsahluwalia@rediffmail.cor
Phone : 06767-270048
- (e) Police Station :
- (f) First opening date : 15/12/1953
2. Address for : AT/PO: THAKURANI
correspondance VIA BARBIL, DIST: KEONJHAR
ORISSA PIN: 758035
3. (a) Lease Number : ORI0072
(b) Lease area : 228.04
(c) Period of lease : 20
(d) Date of Expiry : 31/12/2002
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S KAY PEE ENTERPRISES
 PO BOX No : 3 AT/PO:
 BARBIL, KEONJHAR ORISSA
 Phone:06767- 75348,75659
 FAX :

Owner : P.K.AHLUWALIA
 P.K.AHLUWALIA, MINE OWNER
 P.B.NO.3, POST:BARBIL
 KEONJHAR ORISSA
 Phone:
 FAX :

Agent : SHRI S.C. MANDAL
 M/S KAYPEE ENTERPRISES
 AT/PO: BARBI, DIST:
 KEONJHAR ORISSA (Thakurani
 iron ore mines) SUNDARGARH
 ORISSA
 Phone: 06625-211327
 FAX : 06625-235272

Mining Engineer

Name : ABHISHEK PANDA, Full Time
 Qualification : BE MINING
 Appointment/ : 01/11/2011
 Termination date

Geologist

Name : AMIYA KUMAR NAIK, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 10/01/2011
 Termination date

Manager

Name : RABINDRANATH MONDAL
 Qualification : DIPLOMA MINING WITH 1ST CLASS CERTIFICATE
 Appointment/ : 01/08/2011
 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		
Supervisory	17	40
Workers	22	40
Others	33	40
Managerial	6	40
CONTRACT		

Others	52	40
Supervisory	19	40
Workers	26	40
Managerial	2	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					
Infrastructure					
	Sub total				
	Sub total				
	Total				

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

There was no outstanding Violations.

During current inspection violation of rule 13(1) of MCDR, 1988 for not carrying out exploration for the year 2015-16 and 33(2) of MCDR, 1988 for not carrying de-silting of settling pond near check dam was observed.

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 Recommended

5. Scientific Mining

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

a.Type of prospecting : 40 nos.
and exploration i.e.
pitting, drilling Nil

B. Working (Rule 13)

a.Number and size of : Lucky Pit:-(Top + Lucky Pit: - (530X 372X
each pit (LxWxH) Bottom) 174)
(760 X 480 X 174) Bottom Pit:- (322 x 313
DN Pit :-(514 x290 x110)
x174) D.N Pit:- (382x 374
x174)

b.Bench : Regular Regular
size(LxWxH)length can Height=10m Height=10m
be defined as Width =15m Width =15m
regular/irregular

c.Ore to waste ratio : 1:0.34 1 : 0.04
pit wise if possible
otherwise for mine

d.Total area covered : 51.38 Ha 44.10 Ha
under excavation/pits

C. Waste disposal (Rule 13)

a.Location of dumps : Dump No 3 & 4 Dump No 3 & 4

e.Yearly generation : 17514222 Ton 194665 Ton
of waste quantity.

b.Method of dumping : Retreating Retreating
whether
advancing/retreat

c.Total area covered : 12.44 Hects 10.00 Hects
under waste dump.

d.No.and size of each : Dump No 4 Dump No 4 (220 X 215)
waste dump with No of (254x200) Dump No 3 (310 X 180)
steps/lift/bench Dump No 3
(350x210)

D. Production

b.Year wise : 2009-10 4.0MTPA Financial Year
production of last 2010-11 4.0MTPA Production Achieved
five year. 2011-12 5.50MTPA (ROM)
2012-13 3.05 MTPA 2009-10 1.923MTPA
2013-14 3.64 MTPA 2010-11 1.992MTPA
2014-15 3.89 MTPA 2011-12
2015-16 Up to 1260000 Tonn
December 15 5.05 2012-13
MTPA 103975.220 Ton
2013-14

285.000 Ton
 2014-15
 158235.000 Ton
 2015-16
 Up to December 15
 1949366.000 Ton

D. Reserve

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

Classification
 UNFCCCode Quantity
 Grade
 Proved Mineral Reserve
 111 55617504.000 +45
 Fe
 Probable Mineral Reserve
 121 and 122
 12090000.000 +45 Fe
 Feasibility Mineral
 Resource 211 5320000.000
 +45 Fe
 Prefeasibility Mineral
 Resource 221 and 222
 1480000.000 +45
 Fe
 Inferred Mineral
 Resource 333 2030000.000
 +45 Fe

RESERVE POSITION AS ON 01/04/2015

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	53593000	+45% Fe
Probable	12167000	+45% Fe
Possible	7602000	+45%Fe
Total	73362000	+45% Fe

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
IRON ORE	158235	TON

6. Conservation of Mineral - both quantitative and qualitative**Mineral Rule 15**

Number of benches in ore and waste. : In Waste : Nil
In Ore : 27 nos.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Available at site 309000m3.
Not utilised

Total area covered for stacking : 309000m3 sub-grade

Separate stacking from waste : Yes

Location of stacking. : The waste dump no.4 (NW part of lucky pit) is proposed to be re- handled keeping in view of +45Fe materials above to be stacked separately.

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
121		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015

Overburden/waste removed (in m3) :	5778
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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 lease area is of Hilly terrain
- d. Agriculture : There is no agricultural land exist in & around the lease area
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : No.

C. Air environment

- c. Climatic condition : Semi Arid

D. Socio economic environment

- a. Social and demographic profile. : There are 5 villages surrounding lease area. Livelihood of the villages depends directly or indirectly to the mineral activities including transportation and other activities.
- b. Recommending health and safety. : A community medical centre constructed and maintaining at village Kara with one MBBS doctor ,one pharmacist and nurse with supply of medicines at free of cost to nearby villager since 2007. Full time ambulance facilities provided for staffs and villager. Full time pharmacist appointment in our V.T centre at Dalki village for first-Aid treatment to staff and nearby villagers. Monthly medical check up organised at nearby villages. IME Examination of mining staff were conducted.

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.

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

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	
.2	500	72	.25	300	40	

<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2015	
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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. 98115.00 per MT

(2) Reserve

Classification	UNFCCode	Quantity	Grade
Proved Mineral Reserve	111 55617504.000	+45 Fe	
Probable Mineral Reserve	121 and 122 12090000.000	+45 Fe	
Feasibility Mineral Resource	211 5320000.000	+45 Fe	
Prefeasibility Mineral Resource	221 and 222 1480000.000	+45 Fe	
Inferred Mineral Resource	333 2030000.000	+45 Fe	

(3) Production : 158235.00 Tonnes

(4) Pit's Mouth Value : Rs. 3618.86 for Lumps and Rs. 1740 for Fines

(5) Stock

0.00MT (ROM), Lumps =141443.476 Ton and Fines=634437.774Ton.

(6) Land use pattern

Total

(i) Covered under current (O/C) workings 43.2

(iii) Reclaimed/rehabilitated 4.29

(iii) Used for waste disposal 10

(iv) Occupied by plant, buildings, residential, welfare buildings & roads 0.03

(v) Used for any other purpose (specify)

Mines Road 7.09

(7) Fixed assets (in Rs 000') : 20192881

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.)

None

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines