

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-12/BBS/13/01

Mine code : 30ORI13018

- (i) Name of the Inspecting : **DEY**) **NARENDRA MOHAN DEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI H K SAHOO MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 16/04/2013
- (v) Prev.inspection date : 19/08/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKELA**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RAIKELA
- Taluka : BONAI
- Post office : DENGULA
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (e) Police Station :
- (f) First opening date : 03/04/1982
2. Address for : RAIKELA IRON MINES OF S.N.MOHANTY
correspondance AT-RAIKELA
PO-PENGULA, DIST-SUNDERGARH
3. (a) Lease Number : ORI0149
- (b) Lease area : 18.15
- (c) Period of lease : 30
- (d) Date of Expiry : 02/04/2012
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : S.N.MOHANTY
 STATION ROAD AT/PO:BARBIL
 PO NO.21 KEONJHAR ORISSA
 Phone:30362 (OFFICE),30254(R)
 FAX :

Owner : PROBODH MOHANTY
 PROBODH MOHANTY,MINES OWN
 AT-STATION ROAD,BARBIL
 DIST-KEONJHAR.758035
 KEONJHAR ORISSA
 Phone:
 FAX :

Mining Engineer

Name : LALIT KUMAR BEURIA,Full Time
 Qualification : BACHLOR ENGG
 Appointment/ : 19/05/1997
 Termination date

Manager

Name : P.N.NAIK
 Qualification : PERMIT MANAGER
 Appointment/ : 03/12/1996
 Termination date

6. Date of approval of Mining : 15/12/2008
 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		
Others	25	
Supervisory	1	

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.

VIOLATION POINTED OUT TO THE PARTY ON THE BASIS OF LAST INSPECTION ON 19.08.2011 UNDER RULE 13 (1), 27 (4) AND 16 (1) VIDE THIS OFFICE LETTER DATED 16.11.2011. REPLY / REPORTED COMPLIANCE HAS BEEN HAS BEEN RECEIVED FROM THE PARTY VIDE THEIR LATTER DATED 13.12.2011.

THE SAME HAS BEEN CONSIDERED AS COMPLIED ON 27.01.2012. 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, 1988, if recommended.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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B. Working (Rule 13)

a.Number and size of : each pit (LxWxH)		300 M X 132 M X 27 M	
b.Bench : size(LxWxH)length can be defined as regular/irregular		90 M X 10 M X 5 M (IRREGULAR)	
d.Total area covered : under excavation/pits		300 X 132 39600 SQM	

C. Waste disposal (Rule 13)

b.Method of dumping : whether advancing/retreat		RETREAT	
c.Total area covered : under waste dump.		17516 SQ M	
e.Yearly generation : 24320 CUBIC M of waste quantity.		NIL	MINING OPERATION HAS BEEN STOPPED BY DDM KOIRA AND DFO, BONAI WITH EFFECT FROM 04.04.2012 DUE TO EXPIRY OF MINING LEASE ON 02.04.2012. VIDE THEIR LETTER DATED 04.04.2012 AND 27.03.2012 RESPECTIVELY.
d.No.and size of each : waste dump with No of steps/lift/bench		2 NUMBER OF DUMP 158 X 76 (5 STEP) 108 X 51 (4 STEP)	

D. Production

b.Year wise : 2012-13 : 115200 production of last five year.		NO PRODUCTION DURING 2012-13	MINING OPERATION HAS BEEN STOPPED BY DDM KOIRA AND DFO, BONAI WITH EFFECT FROM 04.04.2012 DUE TO EXPIRY OF MINING LEASE ON 02.04.2012. VIDE THEIR LETTER DATED 04.04.2012 AND 27.03.2012
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RESPECTIVELY.

D. Reserve

a. Reserve position as : (A) 111: 3101625 MINING OPERATION HAS
per latest MP/MS and + 121 : 348750 BEEN STOPPED BY DDM
at the time of = 3450375 KOIRA AND DFO, BONAI
inspection. (B) 221 : 293625 WITH EFFECT FROM
+ 222 : 81000 04.04.2012 DUE TO EXPIRY
= 374625 OF MINING LEASE ON
(A) + (B) = 02.04.2012. VIDE THEIR
3825000 LETTER DATED 04.04.2012
AND 27.03.2012
RESPECTIVELY. MINING
OPERA

RESERVE POSITION AS ON 01/04/2013

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	3101625	AS PER UNFC 111
Probable	348750	AS PER UNFC 121
Possible	374625	221 : 293625 + 222 : 81000 = 374625
Total	3825000	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
IRON ORE		TON

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

Efforts for improving : BY SCREENING
percentage of recovery of
ore.

Mineral Rule 15

Percentage of recovery of ore : 60 :40
pitwise w.r.t. ROM and total
material

Number of benches in ore and : NUMBER OF BENCHES
waste. IN ORE 01
IN WASTE 02

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and : 4000 TONNE
total qty available during
inspection with grade

Location of stacking. : SOUTHERN SIDE OF THE M L AREA

Separate stacking from waste : SEPARATELY STACKED

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
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OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	96000
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Utilisation of Sub Grade Mineral and Mineral Rejects

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)
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7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : FOREST AREA 17.474 HA AND NON- FOREST AREA 0.841 HA
 e. Forest(flora and fauna) : NO FOREST GROWTH EXIST

D. Socio economic environment

- c. Human settlement : ALL THE WORKERS ENGAGED ARE GENERALLY FROM LACAL VILLAGERS.

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>2012 - 2013</u>	Area in Hect.
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<u>TOP SOIL MANAGEMENT</u>
Quantity as on 31/03/2013

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

ANNUAL RETURN 2012-13 HAS BEEN RECEIVED. SINCE MINING MINING OPERATION HAS BEEN STOPPED BY DDM KOIRA AND DFO, BONAI WITH EFFECT FROM 04.04.2012 DUE TO EXPIRY OF MINING LEASE ON 02.04.2012. VIDE THEIR LETTER DATED 04.04.2012 AND 27.03.2012 RESPECTIVELY. THERE WAS NO PRODUCTION DURING 2012-13. COST OF PRODUCTION MENTIONED AS ZERO.

FIXED ASSETS : 15816000 RUPEES

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.

GPS CO-ORDINATES OF STRATEGIC AND IMPORTANT BOUNDARY POINTS WERE VERIFIED. READINGS WERE ALMOST MATCHING WITH THE READINGS OF DGPS MAP PREPARED BY OSAC DATED 22.10.2011. CORNER PILLARS WERE ALSO PYRAMID SHAPED.
MINING PLAN APPROVED ON 27.02.2012 VALID UPTO 2016-17.

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

DURING CURRENT INSPECTION NO VIOLATION WAS OBSERVED.

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

WITH IN THE PRESENT PERIOD THERE IS NO POSSIBILITY OF EXHAUSTION OF MINERAL., SO CLOSING OPERATION IN PHASES DOES NOT ARISE.

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.)

MINING LEASE WAS GRANTED WITH EFFECT FROM 03.04.1982 FOR 30 YEARS EXPIRED ON 02.04.2012.

RENEWAL APPLICATION HAS BEEN FILED WITH THE STATE GOVT. ON 27.08.2010. STATUS NOT KNOWN.

STATUS MAY BE FURNISHED.

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

Date :

(NARENDRA MOHAN DEY)

Indian Bureau of Mines