

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/KJR/MCDR-45/BBS

Mine code : 30ORI08045

- (i) Name of the Inspecting : **SQ24**) **DR. M K SOMANI**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : A K BEHURA, REPRESENTATIVE.
Official with
Designation
- (iv) Date of Inspection : 07/06/2013
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAIKA**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : KEONJHAR
Village : RAIKA
Taluka : BARBIL
Post office : BARBIL
Pin Code : 758035
FAX No. :
E-mail :
Phone :
- (e) Police Station :
- (f) First opening date :
2. Address for : RAIKA IRON & MN MINES, M/S S.D.SHARMA
correspondance P.O.BARBIL, DIST:KEONJHAR
ORISSA-758034
3. (a) Lease Number : ORI0105
(b) Lease area : 26.44
(c) Period of lease : 20
(d) Date of Expiry : 16/11/1999
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : SHIV DUTT SHARMA
 SHIV DUTT SHARMA MINES
 OWNER P.O.BARBIL KEONJHAR
 ORISSA
 Phone:
 FAX :

Owner : SHIV DUTT SHARMA
 SHIV DUTT SHARMA MINES
 OWNER P.O.BARBIL KEONJHAR
 ORISSA
 Phone:
 FAX :

6. Date of approval of Mining : 29/07/2010
 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	0	0
Workers	0	0
Supervisory	0	0

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				2.15	
Water supply				4.82	
Sub total				6.97	
Infrastructure					
Public transport				7.35	
Sub total				7.35	
Others				1.15	
Recreation				0.86	
Training				2.17	
Total				18.50	

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

VIOLATION OF RULE 24 AND 45(1) (b) ARE BEING POINTED OUT,

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 : TWO BOREHOLES AND
and exploration i.e. ONE TRENCH
pitting, drilling

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES.

b.Total area covered : NOT SPECIFIED.

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES.

B. Working (Rule 13)

a.Number and size of : 410X20-50X8M
each pit (LxWxH)

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES.
THER ARE EARLIER NINE
PITS OF VARIOUS SIZES
AVAILABLE IN THE AREA.
SIZES HAVE BEEN GIVEN IN
RELEVENT COLUMN.

b.Bench : REGULAR
size(LxWxH)length can
be defined as
regular/irregular

NONE, AS THE MINE IS
CLOSED SINCEAPRIL , 2010
FOR WANT OF STATUTORY
CLEARENES.

c.Ore to waste ratio : FE 1: 0.15
pit wise if possible MN 1: 3.4
otherwise for mine

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES.

d.Total area covered : 1.435 HA
under excavation/pits

NONE, AS THE MINE IS
CLOSED SINCEAPRIL , 2010
FOR WANT OF STATUTORY
CLEARENES. TOTAL 4.82
HA AREA IS UNDER PITS.

C. Waste disposal (Rule 13)

a.Location of dumps : IN THE SOUTHERN
PART OF THE LEASE
AREA.

NONE, AS THE MINE IS
CLOSED SINCEAPRIL , 2010
FOR WANT OF STATUTORY
CLEARENES

e.Yearly generation : 1861 M3
of waste quantity.

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES

b.Method of dumping : ADVANCING
whether
advancing/retreat

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARENES

c.Total area covered : 180X12M
under waste dump.

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,

2010 FOR WANT OF
STATUTORY CLEARANCES.
OLD DUMPS ARE SPREAD IN
1.26HA AREA.

d.No.and size of each : ONE
waste dump with No of
steps/lift/bench

NONE, AS THE MINE IS
CLOSED SINCE APRIL ,
2010 FOR WANT OF
STATUTORY CLEARANCES

D. Production

b.Year wise	:	FE	FE
production of last		MN	MN
five year.		7-8 37500T	7-8 219 T 0 T
		3533 T	8-9 4907 T 0 T
		8-9 43500T	9-10 NA T NA T
		3977 T	10-11 0 T 0 T
		9-10 115348 T	11-12 0 T 0 T
		310T	12-13 50316 T 538
		10-11 113030 T	T
		397 T	
		11-12 62328 T	
		342 T	
		12-13 50316 T	
		538 T	

D. Reserve

a.Reserve position as :	FE
per latest MP/MS and	MN
at the time of	111- 115434 T
inspection.	2865 T
	121&122 -226406 T 9462
	T
	333- 808907 T
	10955 T

RESERVE POSITION AS ON 01/04/2013

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	115434	+64%FE
Probable	226406	+64%FE+64%FE
Possible	808907	+64%FE
Total	1150747	+64%FE
MANGANESE ORE		
Category	Quantity in Tonnes	Grade
Proved	2865	+25%MN
Probable	9462	+25%MN
Possible	10955	+25%MN
Total	23282	+25%MN

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
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		Unit
IRON ORE	0	TON
MANGANESE ORE	0	TON

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

Efforts for improving low grade and sub grade mineral. : SORTING

Efforts for improving percentage of recovery of ore. : SORTING

Mineral Rule 15

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

Number of benches in ore and waste. : WASTE - NIL,
ORE - ONE TO TWO.

Sub/grd mineral/fines (Rule16)

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

Number and size of each stack : NONE

Location of stacking. : NOT APPLICABLE.

Separate stacking from waste : NONE

Total area covered for stacking : NONE.

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	9	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	0
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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. : GOOD
- b. Aesthetic environment : GOOD
- c. Soil and land use pattern : SOIL NIL,
PIT 4.82 HA,
DUMP 1.26 HA,
INFRASTRUCTURE 0.01 HA,
OTHERS 0.71 HA
- d. Agriculture : NIL
- e. Forest(flora and fauna) : 14.621 HA AREA IS UNDER FOREST.
- f. Vegetation : VEGITATION IN THE HILLY AREA IS PROMINENT.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : NONE

B Water environment.

- a. Surface water : NOT MONITORED AS THE MINE IS CLOSED SINCE APRIL ,
2010 FOR WANT OF STATUTORY CLEARENCES.
- b. Ground water : NOT MONITORED AS THE MINE IS CLOSED SINCE APRIL ,
2010 FOR WANT OF STATUTORY CLEARENCES.
- c. Quality of water : NOT MONITORED AS THE MINE IS CLOSED SINCE APRIL ,
2010 FOR WANT OF STATUTORY CLEARENCES.

C. Air environment

- a. Noise : NOT MONITORED AS THE MINE IS CLOSED SINCE APRIL ,
2010 FOR WANT OF STATUTORY CLEARENCES.
- b. Air : NOT MONITORED AS THE MINE IS CLOSED SINCE APRIL ,
2010 FOR WANT OF STATUTORY CLEARENCES.
- c. Climatic condition : TROPICAL

D. Socio economic environment

- a. Social and demographic profile. : LOCAL VILLAGERS
- b. Recommending health and safety. : MEDICAL CAMPS ARE ORGANISED.
- c. Human settlement : NONE
- d. Recreational facility. : NONE

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	Water Management		Value	
		Station name	Parameter	Actual	Excess

Air data for excess parameters

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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TOP SOIL MANAGEMENT					
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.

NOT 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.)

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 :

(DR. M K SOMANI)

Indian Bureau of Mines