

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/SNG/MCDR-5/BBS

Mine code : 30ORI13005

- (i) Name of the Inspecting : **S024**) **DR. M K SOMANI**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr.T.C. Sei, G.M. (Mines), Sri D. Behera (Manager) Mr.
Official with
Designation
- (iv) Date of Inspection : 25/06/2014
- (v) Prev.inspection date : 11/11/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **K.J.S.T. JALDHI**
- (b) Category : A Fully Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : JALDHI
- Taluka : BONAI
- Post office : KOIRA
- Pin Code : 770048
- FAX No. : 06767-275362
- E-mail : snmbbl@sify.com
- Phone : 06767-275362
- (e) Police Station : KOIRA
- (f) First opening date : 20/01/1987
2. Address for : KJST(JALDIHI) BXT & IRON MINE, M/S P.MOHANTY
correspondance P.O.KOIRA, DIST:SUNDERGARH
ORISSA
3. (a) Lease Number : ORI0151
- (b) Lease area : 333.06
- (c) Period of lease : 20
- (d) Date of Expiry : 19/01/2027
4. Mineral worked : BAUXITE Main
IRON ORE Associated

5. Name and Address of the

Lessee : PRABADH MOHANTY
 L.H. OF LATE S.N.MOHANTY
 MINES OWNER, STATION ROAD
 P.B.NO.21, P.O.BARBIL
 KEONJHAR ORISSA
 Phone:
 FAX :

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

Agent : T C SEI
 WEIGH BRIDGE ROAD BARBIL
 AT/PO-BARBIL DIST-
 KEONJHAR, ODISHA KEONJHAR
 ORISSA
 Phone: 06767275362
 FAX : 06767275362

Mining Engineer

Name : S K SINGH, Full Time
 Qualification : BE MINING
 Appointment/ : 01/06/2011
 Termination date

Geologist

Name : J K NATH, Full Time
 Qualification : M Sc GEOLOGY
 Appointment/ : 01/08/2012
 Termination date

Manager

Name : DASARATHI BEHERA
 Qualification : DIPLOMA MINING, 1ST CLASS CERTIFICATE CC
 Appointment/ : 20/10/2008
 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		
Managerial	10	306
Supervisory	11	306
Others	40	306

Workers	32	306
Ministrial	14	306
CONTRACT		
Workers	141	306

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					
Housing		16.50		34.85	40 BENEFICIARIE
Water supply		12.50		49.00	400
Health		1.20		9.72	40
Sub total		30.20		93.57	
Infrastructure					
Public transport			2.10	6.50	400
Sub total			30.20	6.50	
Employment			16.50		140
Recreation			0.30	0.71	40
Training			0.45	4.10	400
Environment management			2.75		
Total			52.30	104.88	

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

NO VIOLATION OF PREVIOUS INSPECTION IS PENDING.

NO VIOLATION IS FOUND DURING CURRENT INSPECTION.

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
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A. Exploration (Rule 13)

a.Type of prospecting : 22 Nos Core and exploration i.e. drilling pitting, drilling
22 Nos Core drilling

b.Total area covered : Not Specified
1.6 ha

B. Working (Rule 13)

a.Number and size of each pit (LxWxH) : Not Specified
650*360*34m for iron,
196*120*10 m for bauxite

b.Bench : 6m, regular
6m regular
size(LxWxH)length can be defined as regular/irregular

c.Ore to waste ratio : 70:30
100%
pit wise if possible otherwise for mine

d.Total area covered : 21.5 ha
21.5 ha
under excavation/pits

C. Waste disposal (Rule 13)

a.Location of dumps : North Eastern part of the proposed quarry
North Eastern part of the proposed quarry

e.Yearly generation of waste quantity : 27590 M3
Nil

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

c.Total area covered : 7.90 ha
7.90 ha
under waste dump.

d.No.and size of each waste dump with No of steps/lift/bench : 4 Nos. benches of 10Mtrs each
4 Nos. benches of 10Mtrs each

D. Production

b.Year wise production of last five year. :
Iron Bxt. Iron Bxt.

2009-10	543600.000	2009-10	542337.003 Nil
	36875.000	2010-11	638957.500 Nil
2010-11	639540.000	2011-12	698572.340
	43750.000		43330.632
2011-12	1503270.000	2012-13	695335.000
	100625.000		40195.650
2012-13	1559700.000	2013-14	691757.814
	105375.000		12006.522
2013-14	1655640.000		

109500.000

D. Reserve

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

RESERVES AS ON
01.04.2014

	PROVED	
GRADE	PROBABLE	
GRADE POSSIBLE	TOTAL	
Iron 24665074.2	62.91%	
831240		
62.91%	364325	
25860639.2	62.91% Fe	
Bauxite 651375	47.51%	
651375		
47.51%	Al2O3	

RESERVE POSITION AS ON 01/04/2014

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	24665074	62.91%FE
Probable	831240	
Possible	364325	
Total	25860639	

BAUXITE		
Category	Quantity in Tonnes	Grade
Proved	651375	47.51%AL2O3
Probable		
Possible		
Total	651375	47.51%AL2O3

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
BAUXITE	12006.52	TON
IRON ORE	691757.87	TON

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

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

Efforts for improving percentage of recovery of ore. : By Screening

Mineral Rule 15

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

Number of benches in ore and waste. : Iron-(Ore-05, Waste-01)
Bxt.-(Ore-01, Waste-02)

Sub/grd mineral/fines (Rule16)

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

Number and size of each stack : ONE, 50m*50m

Location of stacking. : Northern side of proposed quarry.

Separate stacking from waste : Yes

Total area covered for stacking : 2500 sqm

Exploration data as on 31/03/ 2014

No. of Boreholes	No. of Pits	No. of Trenches
23		
74		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2013 - 2014

Overburden/waste removed (in m3) :	0
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Utilisation of Sub Grade Mineral and Mineral Rejects

Generated	Utilised	Stacked	(In Ton.)

Information on reclamation and rehabilitation as on 31/03/ 2014 (Area in Hect.)

Area broken	Area matured	Area reclaimed	Nature of rehabilitation	Area rehabilitated
1	1	1	By backfilling	1

7. Environment Management - both quantitative and qualitativ**A. Land environment**

- a. Landscape. : Proper dump terracing has been made
- b. Aesthetic environment : Plantation has been made
- c. Soil and land use pattern : Degraded land by dump 7.90HA
Degraded land by pit in forest 21.50 HA
Degraded land by road in forest 3.87 HA
- d. Agriculture : NONE
- e. Forest(flora and fauna) : LOCAL SPECIES
- f. Vegetation : NOT APPLICABLE
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : NONE

B Water environment.

- a. Surface water : Quarterly monitoring below the permissible limit.
- b. Ground water : Not Applicable.
- c. Quality of water : As per the standard permissible limit.

C. Air environment

- a. Noise : Quarterly monitoring IS CARRIED OUT.
- b. Air : Quarterly monitoring
- c. Climatic condition : good

D. Socio economic environment

- a. Social and demographic profile. : 80% of the total employment is from Local
- b. Recommending health and safety. : Doctor is regularly visiting the mines weekly once. one ambulance van provided for shifting OF emergency cases.
- c. Human settlement : Not Applicable.
- d. Recreational facility. : Regular supplying of Sports materials

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>2013 - 2014</u>
		Area in Hect.

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.

	Iron	Bauxite
(1) Cost of operation : Rs.1618.00		Rs.530.00
(2) Reserve :	24400775.12 MT	555842.196MT
(3) Production : 691757.814 MT	12006.522MT	
(4) Pit's Mouth Value Avg Rs.2165.00	Rs.613.00	
(5) Stock :	131034.876 MT	13189.158MT
(6) Land use pattern :	31.784ha (including Bxt.)	
(7) Fixed assets : Rs.531342000.00		

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