

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN-BXT/SNG/MCDR-1/BBS

Mine code : 40ORI13048

- (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 : 25/11/2015
- (v) Prev.inspection date : 17/04/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KUSUMDIH MN.& BX MINES**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : KUSUMDIH KOIRA
Taluka : BONAI
Post office : KOIRA
Pin Code :
FAX No. :
E-mail :
Phone :
- (e) Police Station :
- (f) First opening date : 15/01/1981
2. Address for : VILL-KUSUMDIHI
correspondance PO-KOIRA
DIST-SUNDERGARH
3. (a) Lease Number : ORI0193
- (b) Lease area : 52.18
- (c) Period of lease : 20
- (d) Date of Expiry : 13/01/2001
4. Mineral worked : BAUXITE Associated
MANGANESE ORE Main

5. Name and Address of the

Lessee : BONAI INDUSTRIAL COMPANY LTD
P.O.BARBIL KEONJHAR
ORISSA
Phone:06767-30221
FAX :

Owner : BONAI INDUSTRIAL COMPANY LTD
P.O.BARBIL KEONJHAR
ORISSA
Phone: 06767-30221
FAX :

Agent : D.R.OJHA
C/O BICO LTD AT O.P.BARBIL
KEONJHAR ORISSA
Phone: 06596-62321,62221
FAX :

Mining Engineer

Name : S.KUMAR,Full Time
Qualification : DIPLOMA IN MINING ENGINEER(DME)
Appointment/ : 18/08/2001
Termination date

Geologist

Name : H.MAZUMDAR,Full Time
Qualification : MSC (GEO)
Appointment/ : 01/01/1998
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 |
|----------------------------|-------------------------|--------------------------------|
|----------------------------|-------------------------|--------------------------------|

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.

No outstanding Violations. No violations was observed during present inspection. The mine was declared lapse by State Government vide proceeding no. 5325/ S&M, dated 16.06.2015

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.

5. Scientific Mining

| Items | Proposal | Actual work done | Remarks |
|-------|----------|------------------|---------|
|-------|----------|------------------|---------|

B. Working (Rule 13)

a.Number and size of :
each pit (LxWxH)

Manganese Quarry : 190m
x 124m x 30m
Bauxite Quarry : 76m x
32m x 12m

d.Total area covered :
under excavation/pits

11.9 Ha

C. Waste disposal (Rule 13)

c.Total area covered :
under waste dump.

.51 Ha

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

D1:
TRL: 596, BRL: 588
1 Terrace, Area: 0.45 HA
D2:
TRL: 638, BRL: 630
1 Terrace, Area: 0.06 HA

D. Production

b.Year wise :
production of last
five year.

2014-15:
Manganese Ore :
6768 T
Bauxite Ore :
2049.3 T

NO PRODUCTION DURING
2012-13. DUE TO
OCCURENCE OF LOW GRADE /
UNSALEABLE ORE IN
EXISTING PITS IN NON-
FOREST LAND. GOOD
QUALITY ORE IS FOUND TO
OCCUR IN FOREST LAND
THE FOREST DIVERSION
PROPOSAL IS WITH MOEF ,
GOVT. OF INDIA & IS IN
THE PROCESS OF APPROVAL.

D. Reserve

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

Manganese Ore:
111: 255600 T, 121 :
187875 T
211 : 20250 T, 222 :
21375 T, 333: 221250 T
BAuxite Ore:
111 : 208932 T, 121 :
202170 T
211 : 37398 T, 222 :
36570 T, 333 : 96876 T.

RESERVE POSITION AS ON 01/04/2015

| BAUXITE | | |
|----------------|--------------------|------------|
| Category | Quantity in Tonnes | Grade |
| Proved | 208932 | +40% Al2O3 |
| Probable | 202170 | +40% Al2O3 |
| Possible | 170844 | +30% Al2O3 |
| Total | 581946 | |

| MANGANESE ORE | | |
|----------------------|--------------------|---------|
| Category | Quantity in Tonnes | Grade |
| Proved | 255600 | +20% Mn |
| Probable | 187875 | +20% Mn |
| Possible | 262875 | +10% mn |
| Total | 706350 | |

| <u>PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015</u> | | |
|--|------------|------|
| Mineral | Production | Unit |
| MANGANESE ORE | 0 | TON |
| BAUXITE | 0 | TON |

6. Conservation of Mineral - both quantitative and qualitative

Mineral Rule 15

Number of benches in ore and waste : Manganese: One bench each in Ore and waste
 waste. Bauxite : One bench each in Ore and waste

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015Utilisation 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 highly undulating with hills and valleyd. Highest contour is 645 MRL and lowest contour is 570 MRL.
- b. Aesthetic environment : Aesthetic beauty of the area is maintained by natural forest geowth. the total lease area is covered with forest.
- c. Soil and land use pattern : Area degraded for mining: 11.9 Ha
OB Dump : 0.661 Ha, Mineral Storage : 1.0 Ha, Roads: 0.43 Ha
- e. Forest(flora and fauna) : Sal, Asan, Mahul, and shrubs like Putusi are common in the lease area.

B Water environment.

- a. Surface water : A seasonal nala is found towards Western boundary of lease area.
- c. Quality of water : Potable

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. |

| <u>TOP SOIL MANAGEMENT</u> |
|----------------------------|
| Quantity as on 31/03/2015 |

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 : Nil

(2)Reserve :

Manganese Ore:

111: 255600 T, 121 : 187875 T

211 : 20250 T, 222 : 21375 T, 333: 221250 T

BAuxite Ore:

111 : 208932 T, 121 : 202170 T

211 : 37398 T, 222 : 36570 T, 333 : 96876 T.

(3)Production : Nil

(4)Pit's Mouth Value : Nil

(5) Land use pattern :

Area degraded for mining: 11.9 Ha

OB Dump : 0.661 Ha, Mineral Storage : 1.0 Ha, Roads: 0.43 Ha

(6) Stack : Manganese : 60T, Bauxite :1036.34 T

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. IT WAS OBSERVED THAT READINGS WERE ALMOST MATCHING WITH THE READINGS OF DGPS MAP OF OSAC DATED 29.08.2012. CORNER PILLARS ARE PYRAMID SHAPED AND READINGS ARE MENTIONED ON THE BOUNDARY PILLARS.

SCHEME OF APPROVED ON 16.04.2012 FOR THE PERIOD 2012-13 TO 2016-17.

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

DURING CURRENT INSPECTION NO VIOLATION WAS OBSERVED.

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

81 NUMBERS OF NON-CORING HOLES WERE NOT DRILLED AS PROPOSED IN THE SCHEME PERIOD 2007-08 TO 2011-12 DUE TO WANT OF FOREST CLEARANCE.

17 NOS OF DTH WERE DRILLED FROM 05.01.2007 TO 18.02.2007.

IN THE PRESENT SCHEME OF MINING APPROVED ON 16.04.2012 FOR THE PERIOD 2012-13 TO 2016-17, IT IS PROPOSED TO DRILL 62 NON-CORE DRILLING DURING 2013-14 TO 2015-16 IN THE ENTIRE LEASE HOLD AREA UPTO THE END OF MINERALISED ZONE AT PARA 3.4 i.e FUTURE EXPLORATION PROGRAMME.

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