

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/RGD/MCDR-1/BBS

Mine code : 07ORI27001

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri manoj Kumar Jha, Mines Manager, Shri D P mishra,
Official with
Designation
- (iv) Date of Inspection : 25/05/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAPHLIMALI BAUXITE MINE**
- (b) Category : A Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : RAYGADA
- Village : PAIK-KUPAKHAL
- Taluka : KASHIPUR
- Post office : MAI KUNCH
- Pin Code : 765015
- FAX No. : 06856-223278
- E-mail :
- Phone : 06856-224193
- (e) Police Station :
- (f) First opening date : 17/02/1998
2. Address for : RANIGUDA FARM LANE
correspondance RAYAGADA - 765001
ORISSA
3. (a) Lease Number : ORI0676
- (b) Lease area : 1388.74
- (c) Period of lease : 30
- (d) Date of Expiry : 16/02/2028
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : M/S UTKAL ALUMINA INTERNATIONAL LIMITED
 RANIGUDA FARM LANE RAYAGADA
 - 765001 ORISSA RAYGADA
 ORISSA
 Phone: 06856-224193
 FAX : 06856-223278

Owner : M/S UTKAL ALUMINA INTERNATIONAL LIMITED
 RANIGUDA FARM LANE RAYAGADA
 - 765001 ORISSA RAYGADA
 ORISSA
 Phone: 06856-224193
 FAX : 06856-223278

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	5	362
Managerial	12	362
CONTRACT		
Workers	57	362
Managerial	5	362
Supervisory	17	362

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.

This is the first MCDR inspection.

During current inspection violation of rule 13(1),27(4),33(2),45(5) and 48 of MCDR 1988 was observed and communicated to the party vide this office letter dated 06.10.2015

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, 1988, if recommended.

Not at present

5. Scientific Mining

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

a.Type of prospecting : 103 Bore holes and exploration i.e. pitting, drilling	57 Bore holes
b.Total area covered : whole mineralised area (979.9 Ha) in G1 level within present scheme period	490.57 Ha in G1 level, exploration is under progress

B. Working (Rule 13)

a.Number and size of : Quarry-1 : 578m X 323 m X 45m	Quarry-1 : 585m X 297 m X 32m
each pit (LxWxH) Quarry-2 : 292m X 237m X 53m	Quarry-2 : 215m X 130m X 14m

D. Production

b.Year wise production of last five year.	: 2013-14 : 1251053 MT	2013-14 : 1251053 MT
	2014-15 : 4500270 MT	2014-15 : 3436089.740 MT

D. Reserve

a.Reserve position as : per latest MP/MS and at the time of inspection.	111 : 40.309 million tonnes
	122 : 156.676 Million tonnes
	221 : 0.814 million tonnes
	222 : 3.559 million tonnes
	331 : 46.172 million tonnes
	332 : 92.401 million tonnes

RESERVE POSITION AS ON 01/04/2015

BAUXITE		
Category	Quantity in Tonnes	Grade
Proved	40309000	+40% Al2O3, -5% SiO2
Probable	156676000	+40% Al2O3, -5% SiO2
Possible	142946000	+40% Al2O3, -5% SiO2
Total	339931000	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
BAUXITE	3436089	TON

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

Number of benches in ore and : In ore : 3 benches
waste. In waste : 1 bench

Percentage of recovery of ore : 98% during the year 2013-14
pitwise w.r.t. ROM and total
material

Sub/grd mineral/fines (Rule16)

Separate stacking from waste : No

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
972	33	

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**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. : Lease area consist of platue top mostly barren except some growth of Phoenix acaulis (a dwarf shrub) and seasonal grasses. .
- c. Soil and land use pattern : Top soil generated during mining is being stocked seperately in the earmarked place
- Land use pattern in lease area:
 Area under excavation : 10.6 Ha
 Storage for top soil : 0.775 Ha
 Overburden dump : 6.505 ha
 Mineral storage : 3.6 Ha
 Infdrastructure : 11.22 Ha
 Road : 8.0 Ha
 Green belt : 1.5 Ha
- d. Agriculture : No agricultural activities exist within lease area
- e. Forest(flora and fauna) : The lease area is consist of non forest land only. the platue top is almost barren.
- f. Vegetation : No vegetation was observed some growth of shrub and seasonal grasses.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No such building/monuments exist within ML Area.

B Water environment.

- a. Surface water : Rain water from other areas is diverted to natural water courses through garland drains.
- c. Quality of water : potable
- b. Ground water : mining operations are restricted to platue top only, are not intersect ground wasrer table

C. Air environment

- a. Noise : Noise monitoring is being carried out regularly and within permissible limit.
- b. Air : Dust suppression arrangement is not effectively carried out in the mine

D. Socio economic environment

- a. Social and demographic profile. : There are no villages or any habitation on the plateau top and on the slopes of Baphlimali hill. A few villages are found in the adjacent valleys .The contract labourers engaged in mines are mostly from these villages.
- c. Human settlement : No human settlement in the lease area.

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>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.

YEAR 2013-14

Cost of Production : Rs. 875

Reserves : 121 & 122 : 41.972 million tonnes

211 : 10.403 million tonnes

334 : 293.009 million tonnes

Production : 1346313.8 MT

Closing Stock : Below 40% Al2O3- 37.861 MT, 40% to 42% Al2O3-24.69 MT

Pit Mouth Value : Rs.517

Land use pattern in lease area:

Area under excavation : 10.6 Ha

Storage for top soil : 0.775 Ha

Overburden dump : 6.505 ha

Mineral storage : 3.6 Ha

Infrastructure : 11.22 Ha

Road : 8.0 Ha

Green belt : 1.5 Ha

Fixed Assets (Rs.'000) : 175417

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.)

Infrastructure facilities like road for transportation of Bauxite from lease area to Plant situated at a distance of 20 KMs near Doraguda village adjacent to 'Tikri-Dongasil road' is a concern, which needs to be developed.

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

None

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines