

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/SILM/GJM/MCDR-1/BBS

Mine code : 55ORI06001

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri A C PAIKARY
Official with
Designation
- (iv) Date of Inspection : 13/08/2015
- (v) Prev.inspection date : 31/01/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : OSCOM(ORISSA SANDS COMX)
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : ORISSA
- District : GANJAM
- Village : MATIKHALA
- Taluka : CHATRAPUR
- Post office : MATIKHALA
- Pin Code : 761045
- FAX No. : 06811--257988
- E-mail :
- Phone : 06811--257890 TO 895
- (e) Police Station :
- (f) First opening date : 21/03/1979
2. Address for : ORISSA SANDS COMPLEX MINE, M/S IRE LTD
correspondance DIST:GANJAM
ORISSA-761405
3. (a) Lease Number : ORI0261
- (b) Lease area : 2877.76
- (c) Period of lease : 20
- (d) Date of Expiry : 21/03/1999
4. Mineral worked : KYANITE Main

5. Name and Address of the

Lessee : INDIAN RARE EARTHS LTD.
 IRE LTD, SHERBANOO 6TH
 FLOOR, 111, M.K. ROAD MUMBAI -
 400020 GREATER BOMBAY
 MAHARASHTRA
 Phone:
 FAX :

Owner : INDIAN RARE EARTH LTD
 IRE LTD, SHERBANOO 6TH
 FLOOR, 111, M.K. ROAD MUMBAI -
 400020 GREATER BOMBAY
 MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining : 16/06/2014
 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	82	365
Supervisory	54	
Others	36	
Workers	551	
Ministrial	17	
CONTRACT		
Supervisory	15	

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.

There was no outstanding violations for the lease area during earlier inspection. During current inspection, 13(10, 47 and 48 of MCDR 1988 was pointed out to the party. Party complied vide letter dated 15.12.2015. Compliance status of violation of Rule 48 of MCDR 1988 in respect of maintaining of exploratory bore hole details needs to be observed during next 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, 1988, if recommended.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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C. Waste disposal (Rule 13)

a. Location of dumps : concurrent backfilling of mined out area
 concurrent backfilling of mined out area

D. Production

b. Year wise : MT of
 production of last Sillimanite
 five year. MT of Garnet

PRODUCTION FOR THE PREVIOUS YEAR		-
Mineral	Production	

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

Efforts for improving percentage of recovery of ore. : ROM is subject to wet beneficiation

Efforts for improving low grade and sub grade mineral. : ROM is subjected to beneficiation. Various minerals are seperated as per flow sheet

Mineral Rule 15

Percentage of recovery of ore : 20%
pitwise w.r.t. ROM and total material

Sub/grd mineral/fines (Rule16)

Separate stacking from waste : Yes

Exploration data as on 31/03/

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR**-****Utilisation of Sub Grade Mineral and Mineral Rejects**GeneratedUtilisedStacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- b. Aesthetic environment : restoration of natural environment by backfilling of the mined out area will be levelled and afforested with Casurina, Palm, Nilgiri and Cashew species at the rate of 2000 sapplings per Hectare. which contributed to improve aesthetic beauty of mined out area
- c. Soil and land use pattern : There is no top soil.
Land use :
area already exploited and abandoned by open cast mining 291 Ha
under current opencast working 5.0 Ha
reclaimed and rehabilitated 206 Ha
occupied by plant, building etc 46 Ha
- f. Vegetation : IREL is taking steps to restore pre-mining condition, is working in liasion with several concerned expert agencies in this regard and systematic plantation programme is being carried out in order to have thick green belt.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : no such Public building, places and monuments (protected, historical), placec of worship and places of tourist exist within lease area

B Water environment.

- c. Quality of water : Potable

C. Air environment

- a. Noise : as per the monitoring data, noise level is within permissible limit

D. Socio economic environment

- a. Social and demographic profile. : OSCOM provides direct employment to more than 1200 persons besides indirect employment to few hundreds. the welfare of the employees and and the member of their family are given utmost importance to have an overall healthy growth.
- b. Recommending health and safety. : medical services with health care centres provide preventive, curative and promotional health care to employees, members of the family and also to the people of neighbouring villages. a housing colony provided with english medium and local language schools.
- c. Human settlement : no human settlement within lease area
- d. Recreational facility. : recreation centre, play grounds, marketting centre etc., makes the environment lively.

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

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

(i) Cost of Production : Rs. 2736.00 per tonne

(ii) Reserves :

ROM Ore	Silimanite:	Monazite:	Zircon:	Rutile	Ilmenite	Garnet
111 185905621.000	3.0816%	0.1309%	0.2604%	0.2855%	6.6273%	4.5506%
121 and 122 16343954.000	2.6169%	0.0757%	0.1	0.2170%	5.0965%	3.5801%

(iii) Production (in Tonnes) :

Silimanite: 18311.00

Monazite: 1403.00

Zircon: 5769.00

Rutile : 7249.00

Ilmenite : 200102.00

Garnet : 11999.00

(iv) Pit Mouth value (Rs.) :

Silimanite: 6492.00

Monazite: Not furnished

Zircon : 51875.0

Rutile : 50660.00

Ilmenite : 6119.00

Garnet: 6102.00

(v) Land use pattern :

Area in Ha

(i) Already exploited & abandoned by opencast (O/C) mining	380		
(ii) Covered under current (O/C) workings		5	
(iii) Reclaimed/rehabilitated			252
(iv) Occupied by plant, buildings, residential, welfare buildings & roads			
	55		
(v) Work done under progressive mine closure plan during the			year
	35		

(vi) Value of Fixed Assets* (Rs.'000) : 431982.00

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines