

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KRL/QLN/Min-SAND-8/BNG

Mine code : 55KRL09005

- (i) Name of the Inspecting : **J002**) **V.D.JALNAPURKAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : **SRI.S.JAYACHAND, MANAGER, C.SUNDER, MINING ENGINEER.**
Official with
Designation
- (iv) Date of Inspection : 20/12/2013
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AZHEEKAL ILMENITE MINE**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
- State : KERALA
- District : KOLLAM
- Village : ALPPAD
- Taluka : KARUNAGAPALLY
- Post office : CHERIAZHEKAL
- Pin Code :
- FAX No. : 0476 - 2680141
- E-mail : cgm-ch@IREL.gov.in
- Phone : 0476 - 2680701 to 5
- (e) Police Station : KARUNAGAPALLY
- (f) First opening date : 20/11/2011
2. Address for : DR.R.N.PATRA,CMD
correspondance PLOT NO 1207, OPP SIDDIVINAYAK TEMPLE, PRABHADEV
VEER SAVARKAR MARG, MUMBAI-400028
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : ZIRCON Main
RUTILE Associated

5. Name and Address of the

Lessee : INDIAN RARE EARTHS LIMITED
 CHAVARA, KOLLAM, KOLLAM
 KERALA
 Phone:0476-680701,680702
 FAX :0476-680141

Owner : INDIAN RARE EARTHS LIMITED
 CHAVARA, KOLLAM, KOLLAM
 KERALA
 Phone: 0476-680701,680
 FAX : 0476-680141

Agent : A.J.JANARTHANAN
 KOLLAM KERALA
 Phone:
 FAX :

Mining Engineer

Name : C.SUNDER,Full Time
 Qualification : B.TECH(MINING)
 Appointment/ : 01/04/2008
 Termination date

Manager

Name : K.N.RAJU
 Qualification : DIP.IN MINING ENGG.SCC(R)
 Appointment/ : 27/04/2010
 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	3	

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.

During last inspection under RMGS mcdr Rule24(1) was pointed out & the same has been complied by the lessee vide dt 07.06.2013. No outstanding violations are noticed during the 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, 1988, if recommended.

No such recommendation have been made under 56 of MCDR 1988.
Not applicable.

5. Scientific Mining

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

a.Type of prospecting : NIL
and exploration i.e.
pitting, drilling NIL

b.Total area covered : NIL NIL

B. Working (Rule 13)

a.Number and size of : 1NO 100x 50m
each pit (LxWxH) NIL Mining
operations
havebeen
discontinued
due to
villagers
objection.

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

c.Ore to waste ratio : NA
pit wise if possible
otherwise for mine NA

d.Total area covered : NA
under excavation/pits NA

C. Waste disposal (Rule 13)

a.Location of dumps : NA NA

e.Yearly generation : 90000T
of waste quantity. NIL

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

c.Total area covered : NA
under waste dump. NA

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

D. Production

b.Year wise : 2008-09- 120000 2008-09- NIL
production of last
five year. tonnes 2009-10- NIL
2009-10- 2010-11- NIL
120000tonnes 2011-12- NIL
2010-11- 120000 2012-13 -NIL
tonnes
2011-12- 120000
tonnes
2012-13 -
120000tonnes

D. Reserve

a.Reserve position as : 120000 tonnes(111) 120000 tonnes(111)
per latest MP/MS and ofUNFC ofUNFC

at the time of
inspection.

RESERVE POSITION AS ON 01/04/2013

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
RUTILE	0	TON

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

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

Efforts for improving percentage of recovery of ore. : NA

Mineral Rule 15

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

Number of benches in ore and waste. : NA

Sub/grd mineral/fines (Rule16)

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

Number and size of each stack : NA

Location of stacking. : NA

Separate stacking from waste : NA

Total area covered for stacking : NA

Exploration data as on 31/03/ 2013

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

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013**Utilisation of Sub Grade Mineral and Mineral Rejects**

<u>Generated</u>	<u>Utilised</u>	<u>Stacked</u>	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Area ia part of beach deposit & the land is flat and mostly covered by patta land owned by private persons.
- b. Aesthetic environment : T.S canal in the area. The pattaland area was covered by coconut plantation.
- c. Soil and land use pattern : Soil is sandy in nature . People were constructed houses in most of area.
- d. Agriculture : No agriculture except coconut plantation.
- e. Forest(flora and fauna) : No forest land & no pronounced fauna in the area.
- f. Vegetation : Coconut & vegetables.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : There are no such Public building, places and monuments (protected, historical), placec of worship and places of tourist found.

B Water environment.

- a. Surface water : Backwaters obsereved in canal.
- b. Ground water : There are no effluents from the operations.
- c. Quality of water : No change in water quality.

C. Air environment

- a. Noise : No drilling & blasting.Noise due to operation of HEMM is within norms.
- b. Air : No generation of dust. The mineral sand is handled in slurry moist condition.
- c. Climatic condition : The operation does noteffect the climatic conditions.

D. Socio economic environment

- a. Social and demographic profile. : Most of the people in the area are dependent on sand mining, fishing, etc for their income.Agriculture provides only a small portion of their income.
- b. Recommending health and safety. : The radioactive mineral monazite is exploited from the mineral deposit along with other minerals leaving the area free of radiation.
- c. Human settlement : Construction of road supply of drinking water electricity are done in the resettled colonies.
- d. Recreational facility. : All recreational facilities are available at Kollam.

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

PLANTATION DURING THE PREVIOUS YEAR 2012 - 2013

Area in Hect.

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.

The annual return for the 2012-13 has been scrutinised and the following observations were made:

Opening stock is - Nil.

Production - Nil .

PMV is 9000 /metric tonne .

Closing stock - Nil.

Cost of operation is - Nil

Despatches - Nil

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.

NA

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

NA

c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.

NA

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.

NA

e. Whether production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.

NA

f. Whether adequate investment has been made by the lessee on the development of mine on mining machinery, operational and administrative building, residential accommodation for the employees.

NA

g. Measures taken by the lessee for protection of environment and ecology.

NA

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

NA

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

NIL

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

NIL

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

NIL

Date :

(V.D.JALNAPURKAR)

Indian Bureau of Mines