

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/NPM/SSD-6/MDS

Mine code : 54TMN34008

- (i) Name of the Inspecting : **A027**) **A.S.SANJEEVA RAO**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Kalanidhi, Lessee's representative
Official with
Designation
- (iv) Date of Inspection : 19/09/2014
- (v) Prev.inspection date : 09/12/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THANIKOTTAGAM**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : TAMIL NADU
- District : NAGAPATTINAN
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 9443322078
- (e) Police Station : Vedaranyam
- (f) First opening date : 05/01/2005
2. Address for : No.98/59A, Mannai Road,
correspondance Thiruthuraipoondi post-614 713
Tiruvarur District
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : SILICA SAND Main

5. Name and Address of the

Lessee : S.T.RAVICHANDRAN
 No.98/59, MANNAI ROAD
 THIRUTHURAIPOONDI POST
 THIRUVARUR DISTRICT
 NAGAPATTINAN TAMIL NADU
 Phone:
 FAX :

Owner : S.T.RAVICHANDRAN
 NO:98/59-A, MANNAI ROAD,
 THIRUTHURAIPOONDI. NAMAKKAL
 TAMIL NADU
 Phone:
 FAX :

6. Date of approval of Mining : 04/09/2012
 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
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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.

Mine is reported to be closed for the past two years. During the current inspection violation of rule 24(1) of MCDR-1988 has been observed and communicated to lessee.

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 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		Not applicable.	Mine is closed for the past 20 months as lessee is indisposal due to health problems.
b.Total area covered : Nil		Not applicable.	

B. Working (Rule 13)

a.Number and size of each pit (LxWxH)	: Eastern pit-95mX38mX1.60m	Eastern pit-90mX38mX1.5m	
b.Bench size(LxWxH)length can be defined as regular/irregular	:	Below to the propoals as the mine is not working .	
c.Ore to waste ratio pit wise if possible otherwise for mine	: 5% of waste	Appears to be even less than 5% and mine is not in working condition.	
d.Total area covered under excavation/pits	:	0.90hect.	

C. Waste disposal (Rule 13)

a.Location of dumps	: Westen side of the lease area.	Westen side of the lease area.	
e.Yearly generation of waste quantity.	: 113tonnes /year	Not applicable.As the mine is not working reportedly .Hence,no generation of waste.	
b.Method of dumping whether advancing/retreat	:	Advancing.	
c.Total area covered under waste dump.	:	Area covered under dumping is about 0.15ha	
d.No.and size of each waste dump with No of steps/lift/bench	:	Over burden dump measures as 20mX12mX1.25m	

D. Production

b.Year wise production of last five year.	: 2009-10= 1596tonnes; 2010-11=-; 2011-12=-; 2012-13=2109tonnes;2013-14=2031tonnes.	2009-10=3000tonnes;2010-11=11150tonnes;2011-12=2880tonnes;2012-13=Nil;2013-14=Nil.	
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D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection.	: Available Reserve -19290tonnes	Mine is not working at the time of inspection and reported closed as the lessee is sick.	
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RESERVE POSITION AS ON 01/04/2014**SILICA SAND**

Category	Quantity in Tonnes	Grade
Proved	19290	
Probable		
Possible		
Total	19290	

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
SILICA SAND	0	TON

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

Efforts for improving low grade and sub grade mineral : No generation of low grades and sub grades.

Efforts for improving percentage of recovery of ore : Not applicable.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : It is reported to be 95% recovery.

Number of benches in ore and waste : One bench each in over burden and Ore. It is a shallow deposit, sand occurring below the over burden/topsoil for about 3-4m depth. The over burden/topsoil is not more than 1m height.

Sub/grade mineral/fines (Rule 16)

Qty of yearly generation and total qty available during inspection with grade : Not considerable quantity.

Number and size of each stack : A reject dump located on the southern end of lease measuring 10mX7mX1m.

Location of stacking : No generation of sub grade mineral. Hence, not applicable.

Separate stacking from waste : No generation of sub grade mineral.

Total area covered for stacking : A reject dump located on the southern end of lease measuring 10mX7mX1m.

Exploration data as on 31/03/ 2014

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

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.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Silicasand of tertiary (Pliocene) and wind blow sand and alluvial of recent age. Topsoil thickness is about 1m. The ML area represents Topo sheet no-58N/11 of Survey of India. Longitude is 79deg, 40minit, 05sec and Latitude is 10deg, 25minit, 10 sec:
- b. Aesthetic environment : Only few trees and thorny bushes are seen in the area. The broken area of lease hold has not been backfilled, and the mine is not developed at the full depth.
- c. Soil and land use pattern : The land is not put any other use than mining. The soil cover is thin and not suitable for cultivation. The current mining area was 0.96 ha dump area was about 0.015 ha road & infrastructure is about 0.01 ha approximately.
- d. Agriculture : The main crops are ground nut, maize, Coco nut and cereals. In some places agriculture is done with lift irrigation.
- e. Forest(flora and fauna) : There are no forests in the area. The land is private patta land.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : There are no public buildings, monuments and other places of public / tourist interest in the lease area. There is no impact due to mining.
- f. Vegetation : No change has been observed on vegetation.

B Water environment.

- b. Ground water : The ground water level in this area is 15m in rainy season and 25m in summer season.
- a. Surface water : There is no seasonal nalla, water body passes through/near the lease hold area. Hence there is no impact on due to mining activity.
- c. Quality of water : There is no change in the quality of water due to mining activity as the ground water is the source of drinking. The water table in the region is generally found at the depth of 15 mts in rainy season and 20 mts in summer season.

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.

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.

Mine is reported to be closed from the mid of 2012.

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.

The mining lease was granted by vide Rc. No-724/MM3/2004 dated 08/07/2004 over an area of 2.32.5 ha for Silica sand mineral for a period of 20 years and it is expiring on 09/01/2025.

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

Lessee was advised to submit discontinence notice.

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

Not applicable.

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.

Not applicable.

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

Yes.

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.

It is an opencast manual mine operated seasonally.

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

There is no threat to environment and lessee taken adequate measures.

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.

Not applicable.

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 :

(A.S.SANJEEVA RAO)

Indian Bureau of Mines