

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TNL/LST-42.MDS

Mine code : 38TMN15028

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. T. Venkatarajagopalan. Owner.
Official with
Designation
- (iv) Date of Inspection : 26/03/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THENMALAI**
- (b) Category : B Manual
- (c) Type of Working : Opencast
- (d) Postal address
- State : TAMIL NADU
- District : TIRUNELVELI
- Village : THENMALAI
- Taluka :
- Post office : SIVAGURI
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (e) Police Station :
- (f) First opening date : 17/07/1985
2. Address for : THENMALAI VILL
correspondance VIA RAJAPALAYAM
TIRUNELVELI DT
3. (a) Lease Number : TMN1246
- (b) Lease area : 1.44
- (c) Period of lease : 10
- (d) Date of Expiry : 09/09/2000
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S RENUGA CHEMICALS
 THOMBAKULAM POST (VIA)
 RAJAPALAYAM TIRUNELVELI
 TAMIL NADU
 Phone:04562-34442
 FAX :

Owner : R.RADHAKRISHNAN, PARTNER
 THOMBAKULAM VIA
 RAJAPALAYAM VIRUDUNAGAR DT
 VIRUDHUNAGAR TAMIL NADU
 Phone:
 FAX :

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
CONTRACT		
Workers	7	0
Supervisory	1	0

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					
Others	0.00	0.00	0.00	0.21	For local temple
Total	0.00	0.00	0.00	0.21	

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

On verification of office records violation cum showcause notice was issued under rules 12(3) of MCDR 1988 vide letter no-TN/TNL/LST-42/MDS dated 30/01/2015. But party has not replied than Order of suspension of mining operations under rule 13(2) of MCDR 1988 was issued on 22/04/2015 and awaiting for compliance.

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.

Since the party has not complied rule 12(3) of MCDR 1988, an Order of suspension of mining operations under rule 13(2) of MCDR 1988 was issued on 22/04/2015 and awaiting for compliance.

5. Scientific Mining

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

- a.Type of prospecting and exploration i.e. pitting, drilling : Plan year 2014-15: NA.
No exploration was proposed as per the approved scheme of mining since the mine has reached 65m depth from surface.
- b.Total area covered : Plan year 2014-15: NA.
Nil

B. Working (Rule 13)

- a.Number and size of each pit (LxWxH) : There is only one pit is proposed. Plan year 2014-15. is about 7m x 35m x 8 m depth
Threr is only one pit is developed with diamension are as proposed.
- b.Bench size(LxWxH)length can be defined as regular/irregular : Plan year 2014-15: Separated benches have been proposed in overburden & Ore.
There are eight benches have been formed. Benchs size and length is almost to the proposed.
- c.Ore to waste ratio pit wise if possible otherwise for mine : Plan year 2014-15: Proposed Ore to waste ratio is 1:1.06.
Mine is not working, as reported during inspection ratio is as proposed.
- d.Total area covered under excavation/pits : Plan year 2014-15 is about 0.011 ha.
The total area covered under excavation as on date of inspection is as proposed.

C. Waste disposal (Rule 13)

- a.Location of dumps : Plan year 2014-15: Location of dumps are on non-mineralised area.
There is only one waste dump existing in the area.Existing dumps is located on north-east side of lease area.(non-mineralised area)
- e.Yearly generation of waste quantity. : Plan period- 2014-15:The average waste proposed to be 5726 Ts .
Nil as mine is not working due to poor market.
- b.Method of dumping whether advancing/retreat : Plan period; Method of dumping advancing.
Advancing method .Method of dumping is almost as proposed.
- c.Total area covered under waste dump. : Plan period; about 0.02 ha
The area covered under waste dumps is 0.135 ha.Total area covered for waste dumps is almost as proposed.
- d.No.and size of each waste dump with No of steps/lift/bench : Plan period; One dump.
Only one waste dump is existing in the area with diamention of 55

m x 13 m x 4m height.

D. Production

b. Year wise production of last five year. : Plan period: About 3320 tonnes Year wise production of last five years are as under:
 a). 2010-11 production=Nil
 b). 2011-12 production=Nil
 c). 2012-13 production=445 tonnes.
 d). 2013-14 production=Nil
 e). 2014-15 production=Nil.

D. Reserve

a. Reserve position as per latest MP/MS and at the time of inspection. : The scheme of mining was approved for period 2010-11 to 2014-15: The up dated reserves as on 01/04/2012 is 7699 tonnes.(UNFC-111) and resources is about: 74164 tonnes (UNFC - 222)

RESERVE POSITION AS ON 01/04/2014

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	7699	Cao - 28.27%: Sio2 - 0.02%: Mgo - 12.9% and Al2O
Probable	0	
Possible	74163	
Total	81862	

PRODUCTION FOR THE PREVIOUS YEAR 2013 - 2014

Mineral	Production	Unit
LIMESTONE	0	TON

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

- Efforts for improving low grade and sub grade mineral. : There is no binification practised except manual sorting and breaking.
- Efforts for improving percentage of recovery of ore. : The recovery of ore is found to be good . The manual mine is done to get required size according buyers requirement.

Mineral Rule 15

- Percentage of recovery of ore : As reported, the recovery percentage of ore is 60% pitwise w.r.t. ROM and total material
- Number of benches in ore and waste. : There are eight benches in the pit, one on overburden and seven benches in limestone.

Sub/grd mineral/fines (Rule16)

- Qty of yearly generation and total qty available during inspection with grade : Not applicable .
- Number and size of each stack : Not applicable .
- Location of stacking. : Not applicable .
- Separate stacking from waste : The Limestone is of high grade. All the limestone produced is sold to chemical plant. Hence there is no stacking of subgrade mineral.
- Total area covered for stacking : Not applicable .

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. : During the inspection it has been observed that the mining area depicts undulating and filled with bushes and shrubs.
- b. Aesthetic environment : The mining operation is in small scale and the Aesthetic environment is in intact. The mine is not developed at full depth. After mined out the materal, the excavated areas has been back filled to maintain the aesthetic environment.
- c. Soil and land use pattern : Red soil of pertaing 0.5 m to1.0 m thickness is noted in the lease area.
- d. Agriculture : In a scattered way the agriculture land and the activities are seen and seasonal crops like cotton and ground nut are cultivated.
- e. Forest(flora and fauna) : With in the boundary line of lease hold forest does not exist. The common fauna are Rabitts, Jackal, wild bear and fox etc.No forest and flora within the lease area.
- f. Vegetation : During the inspection no change have been observed on vegetation.There are wild growth of the vegetation.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No Public building, places and monuments (protected, historical), placec of worship and places of tourist in the mining lease area.

B Water environment.

- a. Surface water : No surface water present in the area, as the area reveals the undulating and the gentle slopes.
- b. Ground water : The ground water level in the plateau area is too low. Hence due to mining activity in the lease hold area has not been made any impact on it and not encountered.
- c. Quality of water : There is no change in the quality of water due to mining activity as the source of drinking water is away from the area. Hence not applicable.

C. Air environment

- a. Noise : This is small open cast manual mine, drilling and blasting is done on contract basis with jack hammer, Tractor mounted compressure.Some noise is produce dut to movement of vehile, drilling and blasting which is insignificant.
- b. Air : Due to mining activity no air pollution, since it is small scale mining.
- c. Climatic condition : Due to mining operations there is no impact on climatic conditions in the mining lease area.The mining lease area reveals regular climatic condition.

D. Socio economic environment

- a. Social and demographic profile. : Due to mining operations people of the area have got a regular source of income by getting employment in the mine and their living standard have been changed in some extant in comparision to the past.The Social and demographic profile of the area reveals normal birth and death rate. The people depends on the

- cultivation and also local business in cotton and silk weaving.
- b. Recommending health and safety. : There is no change in health and safety due to mining operations of the people of this area. The normal health and safety condition prevails.
- c. Human settlement : There is no human settlement within the lease hold area. Hence there is no impact on mining activity. There are human settlements away from the ML area.
- d. Recreational facility. : No recreational facilities are observed. Locals have their own recreational facility.

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.

<u>TOP SOIL MANAGEMENT</u>	
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.

Annual returns of the mine in form H-8 for the year 2012-13 have not been received in this office.

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.

Not applicable since the mine is working under deemed extension..

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

Not applicable.

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.

Not applicable.

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.

Not applicable.

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

Not applicable.

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.)

During the inspection boundary pillars are seen.

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

Nil

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines