

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Chennai regional office**

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

**Mine code :** 38TMN15028

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr. P.B.Chinnavenkata Raja, Director  
Official with  
Designation
- (iv) Date of Inspection : 01/12/2020
- (v) Prev.inspection date : 26/02/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THENMALAI**
- (b) **Registration NO.** : **IBM/6659/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : TAMIL NADU  
District : TIRUNELVELI  
Village : THENMALAI  
Taluka :  
Post office : SIVAGURI  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 17/07/1985
- (h) Weekly day of rest : SUN
2. Address for : THENMALAI VILL  
correspondance : VIA RAJAPALAYAM  
TIRUNELVELI DT
3. (a) Lease Number : TMN1246
- (b) Lease area : .58
- (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	:	Mining Scheme rule 12 MCDR1988	12/05/1998
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	29/06/2005
		Mining Scheme rule 12 MCDR1988	17/12/2013
		Mining Scheme rule 12 MCDR1988	18/12/2015
		MP modif under 17(3) MCR 2016	07/06/2017

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Mine fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	The area is fully explored under G1 category
1e	Balance reserve as on 01/04/20	111 - 25202 221 - 5267652	111 - 25202 221 - 5267652	As per the approved document
1f	General remarks of inspecting officers on geology, exploration etc	----	----	Geology, exploration is found to be satisfactory

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	one	one	Mine not working due to EC clearance
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden-01 Ore - 3 Benches	Overburden-01 Ore - 3 Benches	Durint inspection mine not working
2c	Stripping ratio or ore to OB ratio	1:1.5	NIL	Mine not working due to EC clearance
2d	Quantity of topsoil generation in m3	NIL	NA	No topsoil generation
2e	Quantity of overburden generation in m3	1020cum	NIL	Mine not working due to EC clearance

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	---	Mine not working due to EC clearance
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	Mine not working due to EC clearance
3b	Quantity of ROM mineral production proposed	ROM 2550Ts	nil	Mine not working
3c	Recovery of sailable/usable mineral from ROM production	1530 ts	NIL	Mine not working
3d	Quantity of mineral reject generation	1020 ts	NIL	Mine not working
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	nil	Mine not working
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No other any analysis or beneficiation study proposed
3j	Provision of drilling and blasting in mineral benches	Yes	NIL	Mine not working

3k	Provision of mining machineries in mineral benches	Tractor Mounted compressor-2 Portable compressor-2 Hydraulic excavator-1	NIL	Mine not working
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-4mtr, Width-4mtr	Height-4mtr, Width-4mtr	Mine not working
3m	Total area covered under excavation/pits	0.56.0	0.56.0	Mine not working due to EC clearance
3n	Ore to OB ratio for the pit/mine during the year.	1:1.5	NIL	Mine not working due to EC clearance
3o	Total area put in use under different heads at the end of year	0.58.0	0.58.0	Mine not working due to EC clearance
3p	Production of ROM mineral during the last five year period as applicable	2015-16 922 2016-17 919 2017-18 1246 2018-19 1200 2019-20 1530	2015-16 347 2016-17 5022 2017-18 NIL 2018-19 NIL 2019-20 NIL	Mine not working Since 2017 ,due to EC clearance
3q	General remarks of inspecting officers on method of mining etc.	----	---	No development during inspection mine temporally closed.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes for OB & mineral reject	NIL	Mine not working
4b	Location of topsoil, OB and mineral reject dumps	NIL	Na	Not avilable

4c	Number of dumps within lease area and outside of lease area	NIL	NA	Not furnishe
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	Na	Not furnished
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	Retaining wall or garland drain all along dumps are not prosed
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	Retaining wall or garland drain all along dumps are not proposed
4j	Number of settling ponds	NIL	NA	No settling ponds
4k	Specific comments of inspecting officer on waste dump management	-----	-----	Nine is not working during ROMP inspection

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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NIL	NA	Nine is not working during ROMP inspection
5b	Area under backfilling of mined out area	NIL	NA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL

5d	Total area fully reclaimed and rehabilitated	NIL	NA	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	---	Backfilling, reclamation does not arise at this stage.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	ubmitted	ubmitted	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	minerl not exhasted.
6c	afforestation done (ha).	NIL	Na	Not furnished
6d	No. of saplings planted during the year	NIL	NIL	No proposal in the approved mining plan
6e	Cumulative no .of plants	NIL	Na	Not given
6f	Any other method of rehabilitation	NIL	NA	No other specific method of rehabilitation
6g	Cost incurred on watch and care during the year	NIL	NA	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	NIL	NA	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	----	PMCP compliance & progressive closure operations not at this stage

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NA	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	-----	Mine not working during the time of inspection

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No top soil generation
8b	Concurrent use or storage of topsoil	NIL	Na	No top soil generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	NIL	Mine not working
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	na	Mine not working

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	Mine not working
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NA	Mine not working
8g	Survival rate	70%	70%	Mine not working
8h	Water sprinkling on roads to control airborne dust	Proposed	NIL	Mine not working
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	----	Mine not working during the time of inspection

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	NIL Report Submitted in time	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Not given	Part-I No. 8&9 & Part-II, employment & wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	Area under pits- 0.56 Ha Area under reclamation- Nil Area under dumps-NIL Area under Plantation - 0 ha.	Part-I Sl. No 12
9d	Scrutiny of Annual return on afforestation	Given in the format	NIL	Part-I Para 4.4

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	NIL	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	NIL	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	NIL	Part - VI Grade wise production & Part - VII(cost of Production)-
9h	Scrutiny of Annual return on fixed assets	Given in the format	Not furnished	PART II (A) (Capital Structure)
9k	Scrutiny of Annual return on mining machineries	Given in the format	Tractor Mounted compressor-2 Portable compressor-2 Hydraulic	PART - V (General Geology & Mining

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines