

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-49.MDS

**Mine code :** 38TMN38009

- (i) Name of the Inspecting : **G039** ) **G.C.Sethi**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. Durai Murugan, GM-Mines  
Official with  
Designation
- (iv) Date of Inspection : 18/12/2023
- (v) Prev.inspection date : 23/09/2022

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TULAR LIMESTONE MINE(136**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : TULAR MANAKUDAYAN
- Taluka : SENDURAI
- Post office : CEMENT NAGAR
- Pin Code : 621730
- FAX No. : 04329-248303
- E-mail : mclalr@madras cements.co.i
- Phone : 04329-248305, 248306
- (f) Police Station : DALAVOI
- (g) First opening date : 29/10/2008
- (h) Weekly day of rest : SUN
2. Address for : GENERAL MANAGER (MINES)  
correspondance : RAMCO CEMENTS LIMITED, (FORMERLY:MADRAS CEMENTS)  
ALATHIYUR, DALAVOI, TEH-SENDURAI, DISTT- ARIYALU
3. (a) Lease Number : TMN1044
- (b) Lease area : 136.11
- (c) Period of lease : 50
- (d) Date of Expiry : 20/09/2058
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : THE RAMCO CEMENTS LTD  
 AURAS CORPORATE CENTRE 98-  
 A,RADHAKRISHNAN ROAD  
 MYLAPORE,CHENNAI CHENNAI  
 CITY TAMIL NADU  
 Phone:  
 FAX :

Owner : P.R.VENKETRAMA RAJA  
 98-A,AURAS CORPORATE CENTRE  
 RADHAKRISHNAN  
 SALAI,MYLAPORE CHENNAI  
 CHENNAI CITY TAMIL NADU  
 Phone:  
 FAX :

Agent : ASHISH KUMAR SRIVASTAVA  
 ALATHIYUR CEMENT WORKS  
 CEMENT NAGAR POST ARIYALUR  
 DT. ARIYALUR TAMIL NADU  
 Phone:  
 FAX :

## Mining Engineer

Name : A. Santhosh,Full Time  
 Qualification : B.E mining  
 Appointment/ : 01/07/2015  
 Termination date

## Geologist

Name : T.RAMAN,Full Time  
 Qualification : M.Sc- geology  
 Appointment/ : 31/03/2019  
 Termination date

## Geologist

Name : J. Ravi,Full Time  
 Qualification : M.Sc Geology  
 Appointment/ : 01/04/2019  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21/04/2006
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/06/2013
		Modif.approved Mining Scheme	08/07/2015
		MP modif under MCR 1960	14/06/2016
		MP review under 17(1) MCR 2016	06/11/2017
		MP modif under 17(3) MCR 2016	12/01/2021
		MP modif under 17(3) MCR 2016	06/12/2021
		MP review under 17(1) MCR 2016	01/12/2022

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1.	Geological axis - 1.	Entire lease area 136.11 hectares are under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	So far 144 boreholes have been drilled in the lease upto 2020-2021. Total expenditure towards exploration is 11.50 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not applicable	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	19.41 million tons of Reserves & Resources as per the RMP approved on 01.12.2022	4.63 million tons of Reserves as per approved RMP	Cement Grade Limestone.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	No exploration has been done during 2022- 23. Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1252200 / E-306900 to N-1253200 / E-308300	N-1252200 / E-306900 to N-1253200 / E-308300	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	One bench in Topsoil, Four benches in OB & Seven benches in Ore.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 2.89	1 : 3.06	Due to less production the stripping ratio is more

2d	Quantity of topsoil generation in m3	131800 m3 of topsoil has proposed.	113606 m3 of topsoil has generated.	Topsoil has dumped separately.
2e	Quantity of overburden generation in m3	2402849 cu.m of Overburden has proposed.	1981911 cu.m of waste generation	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	The Mine development is confined for the proposed location.	Nil

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production proposed in two pits	Worked in two pits	Nil
3b	Quantity of ROM mineral production proposed	1497300 tons	1224555 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	100% Recovery	Nil
3d	Quantity of mineral reject generation	No Proposal	Nil	Not Applicable
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Not Applicable
3f	Quantity of sub grade mineral generation.	No Proposal	Not generated	Not Applicable
3g	Grade of sub grade mineral generation	Nil	Nil	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable	No beneficiation is carried out	Not applicable
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting are proposed.	Drilling & Blasting are done as per proposal.	Rock breakers are used for production.
3k	Provision of mining machineries in mineral benches	Excavator, Backhoe, Tippers, Rock Breakers Dozer	As proposed the machineries are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 5m	Bench height -5m	Nil
3m	Total area covered under excavation/pits	38.078 ha	38.078 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.89	1 : 3.06	Due to less production the stripping ratio is more
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 38.078 hect Dump = 6.96 hect	Land use Pattern as on 01.04.2023. Mines = 38.078 hect Dump = 6.96 hect	Nil
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 1497300 tons 2021-2022 = 1298900 tons 2020-2021 = 1499932 tons 2019-2020 = 1490017 tons 2018-2019 = 1491224 tons	2022-2023 = 1224555 tons 2021-2022 = 832858 tons 2020-2021 = 860497 tons 2019-2020 = 1442362 tons 2018-2019 = 1432789 tons	Nil
3q	General remarks of inspecting officers on method of mining etc.	Nil	Mining operation is being done by opencast mechanised means.	Nil

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping proposed for Topsoil & Overburden	As per proposal the dumping are carried out.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Topsoil: N-1253500 to N-1253600/ E-307300 to E-307500 Overburden dump: N-1252500 to N-1253200/ E-306900 to E-307600	Topsoil: N-1253500 to N-1253600/ E-307300 to E-307500 Overburden dump: N-1252500 to N-1253200/ E-306900 to E-307600	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = 3 Non Lease area = Nil	Lease area = 3 Non Lease area = Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	Existing dumps
4e	Number of active and alive dumps.	3 Nos	3 Nos	One Topsoil dump & two Ob dumps
4f	Number of dead dumps.	No Proposal	Nil	Nil
4g	Number of dumps established.	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drainage is proposed.	As per proposal Garland drain are constructed.	Nil
4i	Length of Retaining wall or garland drain all along dumps	2590 m garland drainage proposed.	2590m garland drainage is constructed.	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	2590m garland drainage is constructed around dump periphery.	Existing old dumps are present for OB

## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Partly backfilling has proposed	Backfilling done	Nil
5b	Area under backfilling of mined out area	12.200 ha	12.200 ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of topsoil	Concurrent use of topsoil	Nil
5d	Total area fully reclaimed and rehabilitated	32.097 ha	32.097 ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Backfilling done as per proposal.	Nil

#### Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	PMCP report for the year 2022-23 has been submitted
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	12.200 ha	12.200 ha	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	12.200 ha	12.200 ha	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	200 nos of saplings proposed	200 nos of saplings planted	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.40 ha	0.40 ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	Nil



6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Periodical monitoring.	Environmental parameters are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environmental monitoring is being done in quarterly basis all parameters for ambient air, water, noise, vibration are within the permissible limits.	Plantations done as per the proposed number for compliance to PMCP proposals.	PMCP proposals have been complied.

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#### Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1497300 tons	1224555 tons	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	Nil
7c	Different grade of mineral sorted out at mines.	No Mineral sorted out	No Mineral sorted out	Nil
7d	Any beneficiation process at mines	No Proposal	No processing of mineral is involved.	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Achieved ROM Production is 1224555 tons during 2022- 2023 against proposal of 1497300 tons.	The limestone are produced from the mine is utilized for cement making in the captive plant of the company. So, there is no mineral conservation problem in the mine.

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#### Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	131800 m3 of topsoil has proposed.	113606 m3 of topsoil has generated.	Topsoil has dumped separately.
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping proposed for Topsoil & Overburden	As per proposal the dumping are carried out.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Partly backfilling has proposed	As per proposal backfilling has done	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Partly backfilling has proposed	As per proposal backfilling has done	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 saplings proposed.	200 saplings planted.	Plantation has been done as per proposal.
8g	Survival rate	No Such proposal in document	85%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling	Water Sprinkling is being done on roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Plantation has been done as per proposal.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Geologist & mining engineer are appointed.	During inspection Mining Engineer, Geologist is present.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 38.078ha; Reclaimed - Rehabilitated 32.097ha; Used for waste disposal 6.961ha; Occupied by plant, buildings, residential, welfare buildings & roads-2.570ha; Other Purpose (Green Belt , Safety Zone & Others)- 56.403ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	200 saplings	Furnished under part-V.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1224555 tons	Furnished in part- VI	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs.386/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Furnished in part- II-A	Nil

9k	Scrutiny of	Surface Miner, Furnished in part- V sec	Nil
	Annual return on	Tipper, Water	6
	mining	Tanker, Back	
	machineries	Hoe, Shovel.	

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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 :**

**(G.C.Sethi)**

Indian Bureau of Mines