

MCDR INSPECTION REPORT		
	Name of the inspecting officer Designation	Mr. D.Chandrasekhar Reddy, AME
	Date of inspection:	20/07/2024
	Accompanied mine official and designation	Sri. K. Elansurian (AGM), Sri.. J. Ravi (AGM)
	Mine file No.	TN/ALR/LST-49.MDS

General		
S.N.	Particulars	Details
1	Name of the Mine	Alathiyur Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Extent:- Non Forest- 14.68.5 Ha .
3	Mine code	38TMN24041
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Manakudayan, The Ramco Cements Limited, Alathiyur Works, Ariyalur District. Pin : 621730 Fax : 044 - 28478676, 28478677 E-mail : vssm@ramcocements.co.in Phone : 044 – 28478666, 28478656
6	Village	Manakudayan
7	Taluka/Mandal	Sendurai
8	District	Ariyalur
9	Pin code	621 730
10	State	Tamilnadu
11	Post office	Dalavoi
12	Nearest police station	Dalavoi
13	Nearest Railway station	Echangadu
14	Date of Grant of Mining Lease	31.03.2004
15	Date of Execution	24.08.2004
16	Date of opening of Mine	19.10.2004
17	Date of first Renewal, if applicable and its period & expiry	Not applicable.
18	Date of second Renewal, if applicable and its period & expiry	Not applicable.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	P.R.Venkatramarajah, Chairman, Auras Corporate Centre, V <sup>th</sup> Floor, 98-A, Dr.Radhakrishnan Salai, Mylapore, Chennai-600004. State : Tamilnadu Phone : 044 - 28478666, 28478656 Fax : 044 - 28478676, 28478677 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a>

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. R. Meenashisundaram, Senior Vice President, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 044 – 28478666, 28478656 Fax : 044 - 28478676, 28478677 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Date : 05/10/2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	R.Naren, Alathiyur Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 044 – 28478666, 28478656 Fax : 044 - 28478676, 28478677 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Date : 13/05/2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	P.Prabhu, Alathiyur Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Fax : 044 - 28478676, 28478677 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Phone : 044 – 28478666, 28478656 Date : 12/05/2022
24	Whether <b>Geologist</b> and <del>Mining Engineer</del> appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 &44.	R.Balamurugan, Alathiyur Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Fax : 044 - 28478676, 28478677 E-mail : <a href="mailto:mclalr@ramcocements.co.in">mclalr@ramcocements.co.in</a> Phone : 044 – 28478666, 28478656 Date : 21/03/2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	05.12.2018 (2019-20 to 2023-24)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

## II - OBSERVATION AND COMMENT OF INSPECTING OFFICER

### Exploration:

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil	Exploration completed for whole area
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	Entire area already explored upto G1 level
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area was explored to G1 category
1e	Balance reserves as on 01.04.2024 (111+121 Category)	--	69,238 tonnes	Production within proposed limits
1f	General comments of inspecting officer on geology, exploration etc.	—	—	Sufficient exploration done.

### Development:

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	ML 1 to 3 250-450	ML 1 to 3 200-450	Violation of Rule 11(1) pointed out. Mine is under Temp. Discontinuance from 25/10/2023.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil-1, Overburden-1, Mineral-3	Topsoil-1, Overburden-1, Mineral-3	Separate benched proposed & maintained
2c	Stripping ratio or ore to OB ratio	1 : 0.12	1 : 0.27	Violation of Rule 11(1) pointed out,
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal	Nil	NIL
2e	Quantity of overburden generation in m <sup>3</sup>	3,428	2019	Violation of Rule 11(1) pointed out. Mine is under Temp. discontinuance from 25/10/2023
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	—	—	Mine is under Temp. Dis continuance from 25/10/2023 and pit was water logged partly. Production and development lacking, Violation pointed out.

**Exploitation :**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	As proposed
3b	Quantity of ROM mineral production proposed	49,930	13,528	Violation of Rule 11(1) pointed out. Mine is under Temp. discontinuance from 25/10/2023
3c	Recovery of salable/usable mineral from ROM production	100 %	100 %	Entire ROM consumed.
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral reject generation.
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	NA
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Non-conventional method, surface minor deployed.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Nil.
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	Non-conventional mining proposed & carried out.
3k	Provision of mining machineries in mineral benches	Shovel (Hydraulic)-1, Tipper-3	Shovel (Hydraulic)-1, Tipper-3	Non-conventional mining using Surface Miners.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height – 5m, Width – 6m	Height – 5m, Width – 6m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits	4.78 Ha	4.78 Ha	Within UPL
3n	Ore to OB ratio for the pit/mine during the year	1:0.12	1 : 0	Violation pointed out.
3o	Total area put in use under different heads at the end of year	Minedout land – 4.78 Reclaimed – 2.84 Road & Infra – 0.48 Ha	Minedout land – 4.78 Reclaimed – 2.84	Within the proposed limits

			Other – 6.585 Ha	Road & Infra – 0.48 Ha Other – 6.585 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	49,930	48,507	Violation of Rule 11(1) pointed out. Mine is under Temp. discontinuance from 25/10/2023
		2020-21	49,930	38,850	
		2021-22	49,930	46,764	
		2022-23	49,930	31,827	
		2023-24	49,930	13,528	
3q	General Remarks of inspecting officer on method of mining etc.		—	—	Mine is under Temp. discontinuance from 25/10/2023

### Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	Backfilling is done.	Mine is under Temp. discontinuance from 25/10/2023
4b	Location of topsoil, OB & mineral reject dumps	200 to 400 backfilling proposed	200 to 400 backfilling carried out.	As proposed
4c	Number of dumps within lease area and outside lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL
4e	Number of active & alive dumps	NIL	NIL	NIL
4f	Number of dead dumps	NIL	NIL	NIL
4g	Number of dumps stabilized	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there	Garland Drain proposed	Garland Drain maintained	Existing Garland Drain maintained
4i	Length of Retaining wall or garland drain all along dump	Nil	420 m x 2m x 1.5m desilting of existing garland drain.	Desilting work
4j	Number of settling ponds	NIL	NIL	NIL.
4k	Specific comments of inspecting officer on waste dump management	—	—	Interstitial rejects used for back filling. Mine is under

				Temp. discontinuance from 25/10/2023
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**Solid Waste Management – Backfilling:**

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	All minerals are mined & taken before starting of Backfilling	All minerals are mined & taken before starting of Backfilling	Full extraction is adopted
5b	Area under backfilling of mined out area	0.02 Ha	0.02 Ha	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	NIL	No Topsoil produced during 2023-24.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Mining activities continuing.
5e	General Remarks of inspecting officer on backfilling, reclamation etc.,	—	—	Mine is under Temp. dis continuance from 25/10/2023. Mineral not excavated fully.

**Progressive Mine Closure Plan:**

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Yes	Yes	Submitted in time
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	Nil
6c	Afforestation done (ha)	0.02	plantation along boundary .	Mine is under Temp. dis continuance from 25/10/2023.
6d	No. of saplings planted during the year	300	300	Plantation carried out
6e	Cumulative no. of plants	-	15,705	For entire mine area
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	2,37,000	2,59,500	No additional area. Backfilling area on same location. RL only increased
6h	Compliance on reclamation and rehabilitation by backfilling	0.02 Ha	0.02 Ha	No additional area. Backfilling

	(i) Void filled (L x W x D )			area on same location. RL only increased
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids by waste/tailings	0.02 Ha	0.02 Ha	No additional area. Backfilling area on same location. RL only increased
6j	Compliance on reclamation and rehabilitation by backfilling(iii) Afforestation on the backfilled area	300	300	No additional area. Backfilling area on same location. RL only increased
6k	Compliance on reclamation and rehabilitation by backfilling iv) Rehabilitation by making water reservoir	After mining is completed will be making water reservoir.	Mineral not extracted completely..	As proposed
6l	Compliance on reclamation and rehabilitation by backfilling v) Any other specific means	Nil	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	No proposal.	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	No proposal.	Nil	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 & buffer zone)	Yes	Carried out quarterly	All parameters within statutory limits
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	—	—	Satisfactory. Mine is under Temp. dis continuance from 25/10/2023

**Mineral Conservation :**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	Entire ROM transported to beneficiation plant outside ML.	To enhance the grade of Low grade Limestone
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	Using Surface Miner
7c	Different grade of mineral sorted out at mines	High Grade, Low grade separation.	Entire ROM transported to beneficiation plant outside ML.,	As proposed
7d	Any beneficiation process at mines	Yes .Wet Beneficiation Technology is proposed	Being carried out as per proposal.	As per proposal
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	—	—	Mineral conservation is satisfactory.

**Environment :**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	NA
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Backfilling is proposed.	Back filling done.	Mine is under Temp. dis continuance from 25/10/2023
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	Interstitial waste is being used for reclamation of mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.,)	Yes	Yes	Reclamation is being practiced in a phased manner
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Specified	15,705 Cumulative	As proposed
8g	Survival rate	Not Specified	70 %	
8h	Water sprinkling on roads to control airborne dust	proposed	Carried Out	As proposed
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory.



## Compliance of Rule 45

S.N.	Item	Proposal	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted for the year 2023-24		Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	R.Prabhu- Mining engineer R.balamurugan- Geologist. R.Naren-manger	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Area under current workings: 4.78 Hc. Infrastructure: 4.80 Hc. Reclaimed&rehabilitated: 2.84 hc. Others : 6.585 Hc.	Mine is under temporary discontinuance.
9d	Scrutiny of Annual return on afforestation	Details given	300	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details given	No mineral reject generation.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	13527.880 tonnes	Violation of rule 11(1) pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details given	Rs.334.36	Reasonable.
9h	Scrutiny of Annual return on fixed assets	Provided in Annual Return	Fixed assets shown as Nil	Mine is under temporary discontinuance
9i	Scrutiny of Annual return on mining machineries <b>Name of the Machinery Capacity</b>	Details given	Shovel(Hydraulic)-1 Tipper-2	Non conventioanal method adopted.
<b>Details of violations observed during current inspection and compliance position of earlier violation pointed out:-</b>				
<b>violation observed</b>		<b>show cause position</b>		
Violation of Rule 11(1) pointed out vide letter no.TN/ALR/LST-49.MDS dated: 31/07/2024.				

D.Chandrasekhar Reddy

Assistant Mining Engineer.