

**INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-30.MDS		Mine code - 38TMN24030
	Name of the inspecting officer Designation	Mr. Matiul Islam, Assistant Controller of Mines
	Date of inspection:	08/08/2024
	Accompanied mine official and designation	Mr. K.Elansurian (AGM Geology), Mr. J.Ravi (AGM Geology) & Mr. S.Duraimurugan (DGM Mines)
PART-I: General Information		
1	Name of the Mine	Alathiyur Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Extent:- Non Forest- 27.31.0 Ha .
3	Mine code	38TMN24030
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Adanakurichi and 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	Adanakurichi & 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	24.12.1999
15	Date of Execution	21.12.2000
16	Date of opening of Mine	28.03.2003
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, 98-A, Dr.Radhakrishnan Salai, Mylapore, Chennai-600004. State : Tamilnadu Phone : 044 - 28478666, 28478656 Fax : 044 - 28478676, 28478677 E-mail : mclalr@ramcocements.co.in

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 : mclalr@ramcocements.co.in Date : 05/10/2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	N.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 : mclalr@ramcocements.co.in 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	Abilash.V.S, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Fax : 044 - 28478676, 28478677 E-mail : mclalr@ramcocements.co.in Phone : 044 – 28478666, 28478656 Date : 01/12/2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	D.Ignatius Anthony, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Fax : 044 - 28478676, 28478677 E-mail : mclalr@ramcocements.co.in 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.	NA
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	ROMP No: TN/ALR/LST/ROMP-1536.MDS dt:03.12.2018 (2019-20 to 2023-24)
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Open cast, Underground)	Open Cast.
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised.
30	Captive/Non Captive	Captive.

II - OBSERVATION AND COMMENT OF INSPECTING OFFICER

Exploration (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog	Nil	A total of 9 boreholes for a total meterage of 439.32 m drilled.
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	Mine fully explored G-1 Level
1c	Exploration Agency & 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	Not Applicable	Nil
1e	Balance reserves as on 01.04.2024 (111+121 Category)	Limestone - 8,26,400	Limestone- 13,40,223.92	Due to less production from the ROMP period
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease was found satisfactory.

Development (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Ref With Grid)	ML- 8 to 10 900 - 1300	ML- 8 to 10 900 - 1300	As per proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil - 1, OB - 2, Mineral - 3	Topsoil - 1, OB - 2, Mineral - 3	Formed as per rule
2c	Stripping ratio or ore to OB ratio	1 : 0.58	1 : 0.90	Violation pointed out for deviation of ROM & waste quantities.
2d	Quantity of topsoil generation in m ³	Nil	Nil	Nil
2e	Quantity of overburden generation in m ³	64,142	48,106.67	Violation pointed out for deviation
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Violation pointed for deviation from development proposal.

Exploitation (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	As per proposal
3b	Quantity of ROM mineral production proposed	1,98,360 te	53,305.08 te	Violation pointed out for deviation
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As per proposal
3d	Quantity of mineral reject generation	Nil	NA	Nil
3e	Grade of mineral reject generation and threshold value declared	Nil	NA	Nil
3f	Quantity of sub-grade mineral generation	Nil	NA	Nil
3g	Grade of sub-grade mineral generation	Nil	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Nil

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	NA	Nil	
3j	Provision of drilling & blasting in mineral benches	Non-conventional mining without drilling & blasting proposed	Non-conventional mining without drilling & blasting carried out	As proposed	
3k	Provision of mining machineries in mineral benches	Shovel-1, Tipper-4, Wheel Loader-1	Shovel-1, Tipper-4, Wheel Loader-1	As proposed	
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	11.753 Ha	10.719 Ha	Within limit	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.58	1 : 0.90	Violation pointed out for deviation of ROM & waste quantities.	
3o	Total area put in use under different heads at the end of year	End of 5th year: Area under Mining- 11.753, Storage of topsoil – 2.67, Waste dump site- 1.09, Others -11.797	Mined out land – 10.720 Ha Reclaimed/ Rehabilitated -0.069 Ha Used for waste disposal-2.68 Ha Occupied by plant, buildings & roads-0.11 Other Purpose 13.731	Within limits	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19	57,000	8,997	Within limits
		2019-20	1,79,550	1,51,737	
		2020-21	1,78,524	83,274	
		2021-22	1,77,840	67,072	
		2022-23	3,49,980	1,64,569	
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Violation pointed for deviation from production proposals	

Solid Waste Management-Dumping (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Topsoil dumped separately. Simultaneous backfilling of OB Proposed	Topsoil dumped separately. Simultaneous backfilling of OB.	Separately stacked
4b	Location of topsoil, OB & mineral reject dumps (Ref to Grids)	Topsoil ML-0 to ML-2 200 to 400 OB Grid -400 to 0	Topsoil ML-0 to ML-2 200 to 400 OB Grid -400 to 0	As proposed
4c	Number of dumps within lease area and outside lease area	Top soil – 1	Top soil – 1	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL Topsoil ML-0 to ML-2 200 to 500	Outside UPL Topsoil ML-0 to ML-2 200 to 500	As proposed
4e	Number of active & alive dumps	Nil	Nil	Nil
4f	Number of dead dumps	1	1	Top Soil dump
4g	Number of dumps Stabilised	1	1	Top Soil dump

4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Garland drain as per proposal
4i	Length of Retaining wall or garland drain all along dump	1200 x 2 x 2	1200 x 2 x 2	Garland drain all along dump desilted
4j	Number of settling ponds	1	1	Existing settling pond de-silted.
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

Solid Waste Management – Backfilling (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Simultaneous backfilling of OB Proposed	Simultaneous backfilling of OB done	As per proposal
5b	Area under backfilling of mined out area	OB Grid 500 to 600	OB Grid 500 to 600	As per proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No topsoil removal proposed for the year	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	0.069	0.069	Backfilling proposed and done over previously backfilled area
5e	General Remarks of inspecting officer on backfilling, reclamation etc.,	-	-	Backfilling & reclamation activities were found satisfactory.

Progressive Mine Closure Plan (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly – Rule 23E(2)	Yes	Yes	Submitted
6b	i) Area available for rehabilitation (ha)	No proposal for the year	Nil	Nil
6c	Afforestation done (ha)	No proposal for the year	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no. of plants	15,899	16,299	Previous afforestation
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	Not specified	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Void filled (L x W x D)	No additional area proposed for the year	0.069 Ha	Backfilling carried over previously backfilled area
6i	Compliance on reclamation and rehabilitation by backfilling (ii)Void filled by waste/tailings	No additional area proposed for the year	0.069 Ha	Backfilling carried over previously backfilled area
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on the backfilled area	Nil	Nil	Backfilling not completed yet.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil

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	Not applicable	Not applicable	Not applicable
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	Not applicable	Not applicable	Not applicable
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Not applicable	Not applicable	Not applicable
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Periodic Monitoring Proposed	Periodic Monitoring carried out	All the monitored values are within limit.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	Progressive closure operations were compliant of PMCP.

Mineral Conservation (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Grade wise sorting carried out	As proposed
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, Very low grade, Very very low grade	High Grade, Low grade, Very low grade, Very very low grade	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	-	-	Entire ROM generated is consumed.

Environment (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Topsoil removal proposed	No Topsoil removed	As per the proposal
8b	Concurrent use or storage of topsoil	Nil	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Simultaneous backfilling of OB Proposed	Simultaneous backfilling of OB done	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling of OB Proposed	Simultaneous backfilling of OB done	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling of OB Proposed	Simultaneous backfilling of OB done	As per proposal
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	15,899	16,299	Previous afforestation since inception
8g	Survival rate	75	80	For previous afforestation

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling is being done
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines found satisfactory

Compliance of Rule 45

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Nil	Monthly & Annual returns submitted	In time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	N. Naren-Manager, Abilash.V.S-Mining Engineer, D.Ignatius Anthony-Geologist	Given in Part I, Sl 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mined out land - 10.720 Ha Reclaimed/ Rehabilitated -0.069 Ha Used for waste disposal-2.68 Ha Occupied by plant, buildings & roads-0.11 Other Purpose 13.731	Given in Part - I. Sl no.12	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Given in Part - V. Sl no.4.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Given in Part - V. Sl no.3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Given in Part - VI. Sl no.2 & 3	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs.335.98	Given in Part - VI. Sl no.3(ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Given in Part - IIA. Sl no.1	Nil
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	Shovel-1, Tipper-4, Wheel Loader-1	Given in Part - V Sec - 6	Nil

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

Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	23/08/2022				

Date:

(Matiul Islam)

Indian Bureau of Mines