

INDIAN BUREAU OF MINES

MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-49.MDS		Mine Code: 38TMN38009
	Name of the inspecting officer Designation	Matiul Islam, Assistant Controller of Mines
	Date of inspection:	12.12.2024
	Accompanied mine official and designation	Mr. S.Duraimurugan (Sr. DGM Mines), Mr. J.Ravi (DGM Geology)
PART-I: General Information		
S.N.	Particulars	Details
1	Name of the Mine	Tular Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	136.11.0 Ha
3	Mine code	38TMN38009
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Tular Limestone Mines, The Ramco Cements Limited, Alathiyur Works, Ariyalur District. Pin : 621730 Fax : 04329 - 248303 E-mail : ravij@ramcocements.co.in Phone : 04329 - 248305, 248306
6	Village	Tular & 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	02.07.2008
15	Date of Execution	18.09.2008
16	Date of opening of Mine	29.09.2008
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 : 04329 - 248305, 248306 Fax : 04329 - 248303 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 : 04329 - 248305, 248306 Fax : 04329 - 248303 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	T. Suresh kumar, Tular Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 Fax : 04329 - 248303 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	S. Karthick, Tular Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 Fax : 04329 - 248303 E-mail : mclalr@ramcocements.co.in Date : 21/03/2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 &44.	J.Ravi, Tular Limestone Mine, The Ramco Cements Limited, Alathiyur Works. District : Ariyalur State : Tamilnadu Pin : 621730 Phone : 04329 - 248305, 248306 Fax : 04329 - 248303 E-mail : mclalr@ramcocements.co.in Date : 01/04/2019
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 Review of Mining Plan/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	01/12/2022 (2023-24 to 2027-28)
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

II - OBSERVATION AND COMMENTS OF INSPECTING OFFICER

Exploration (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Potentially mineralized area already fully explored
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	Nil
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	Nil	Nil
1e	Balance reserves as on 01.04.2024 (111+121 Category)	23,72,098 T	30,46,523 T	More reserves than proposed due to less depletion during the plan period.
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease were found satisfactory

Development (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Ref With Grid)	1252200 N 306900 E to 1253200 N 308300 E	1252200 N 306900 E to 1253200 N 308300 E	As proposed
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil - 1, OB - 4, Mineral - 7	Topsoil - 1, OB - 4, Mineral - 7	As proposed
2c	Stripping ratio or ore to OB ratio	1 : 0.91	1 : 1.97	Within acceptable limit
2d	Quantity of topsoil generation in m ³	1,58,336 M3	1,54,992 M ³	Within limit
2e	Quantity of overburden generation in m ³	16,62,951 M3	16,25,191 M ³	Topsoil + Overburden quantity = 17,80,183.71 mentioned in Annual Return Form-G1
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Development w.r.t. type of deposit was found satisfactory

Exploitation (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	As proposed
3b	Quantity of ROM mineral production proposed	14,98,000 T	8,23,575 T	Violation pointed out
3c	Recovery of salable/usable mineral from ROM production	100 %	100 %	As proposed
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	Nil
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	Nil
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 practiced

				with Surface Miner
3k	Provision of mining machineries in mineral benches	Surface Miner-1, Shovel-3, Ripper Dozer-1, Tipper-10, Water Tanker-1, Explosive Van-1, Other HEMM-1 Blast Host Drill-1 Compressor-1	Surface Miner-1, Shovel-3, Ripper Dozer-1, Tipper-10, Water Tanker-1, Explosive Van-1, Other HEMM-1 Blast Host Drill-1 Compressor-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	59.21 Ha	45.088 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.91	1 : 1.97	Within acceptable limit
3o	Total area put in use under different heads at the end of year	Area under Mining- 59.21 Topsoil stacking-2.02 Overburden/Waste Dumping-16.00 Mineral Storage-2.17, Infrastructure (Workshop, Administrative Building etc.)- 0.65 Roads-5.20	Covered under current (O/C) Workings-45.088 Reclaimed/ Rehabilitated-32.097 Waste Disposal-6.988 Occupied by plant, buildings, & roads-5.850	Within limits
3p	Production of ROM mineral during last five-year period, as applicable	2019-20:14,90,017 2020-21:14,99,932 2021-22:12,98,900 2022-23:14,97,300 2023-24:14,98,000	2019-20:14,42,362 2020-21:8,60,497 2021-22:7,40,561 2022-23:12,24,555 2023-24:8,23,574	Within limits
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Violation pointed out for deviation from exploitation proposal

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-1, OB dump-1	Topsoil-1, OB dump-1	As proposed
4b	Location of topsoil, OB & mineral reject dumps	Top Soil 1253500 N 307300 E to 1253600 N 307500 E OB Dump 1252900 N 307200 E to 1253300 N 307700 E	Top Soil 1253500 N 307300 E to 1253600 N 307500 E OB Dump 1252900 N 307200 E to 1253300 N 307700 E	As proposed
4c	Number of dumps within lease area and outside lease area	Top soil - 1 OB - 1	Top soil - 1 OB - 1	Within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit limit	Outside Ultimate Pit limit	As proposed
4e	Number of active & alive dumps	2	2	As proposed
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	As proposed
4i	Length of Retaining wall or garland drain all along dump	Garland drain Proposed - 5732 mts	Garland drain maintained - 5732 mts	As proposed

4j	Number of settling ponds	Nil	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	Concurrent backfilling proposed under PMCP	Concurrent backfilling carried out under PMCP	As proposed
5b	Area under backfilling of mined out area	2.09 Ha	2.09 Ha – Freshly backfilled area 10.11 Ha – Backfilled over previously backfilled area	Total 12.22 Ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Storage proposed for the year	Topsoil stored for future use	As proposed
5d	Total area fully reclaimed & rehabilitated	2.09 Ha	2.09 Ha – Freshly backfilled area 10.11 Ha – Backfilled over previously backfilled area	Total 12.22 Ha
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). Details should be given in the format as given in Annexure-20.	NA	Submitted	Along with AR
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	Management of worked/mined out benches Afforestation done (ha)	Nil	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no. of plants	53,200 nos	80,741 nos	Within lease area
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	Rs 11,250	Rs 11,250	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Void filled (L x W x D)	20905 M2	20808 M2	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids by waste/tailings	2.09 Ha	2.09 Ha – Freshly backfilled area 10.11 Ha – Backfilled over previously backfilled area	Total 12.22 Ha
6j	Compliance on reclamation and rehabilitation by backfilling(iii) Afforestation on the backfilled area	Nil	Nil	Nil
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	150 nos saplings	150 nos saplings	Plantation
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	0.06 Ha	0.06 Ha	Plantation
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Plantation	Plantation	Plantation
6p	Compliance of Environmental monitoring (core zone & buffer zone)	NA	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	PMCP Compliance & progressive closure operations were found satisfactory

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 proposed.	Beneficiation plant location outside lease area.
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	No issues observed with Mineral conservation & beneficiation.

Environment (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil storage proposed for the year	Topsoil stored for future use	As proposed
8b	Concurrent use or storage of topsoil	Only storage proposed	Topsoil stored for future use	As proposed
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Simultaneous backfilling and dumping on the proposed area	Simultaneous backfilling and dumping on the proposed area	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	OB 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)	90,641 Nos planted 150 for Fy 2023-24	150 saplings planted for FY 2023-24	80,741 saplings within lease area and 9,900 saplings outside lease area.
8g	Survival rate	80 %	85 %	As proposed

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

Compliance of Rule 45

S.N.	Item	Details given in Annual Return	Comment by Inspection Officer	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	In time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: T. Suresh kumar Mining Engineer: S.Karthick Geologist: J.Ravi	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.	Covered under current (O/C) Workings-45.088 Reclaimed/ Rehabilitated-32.097 Waste Disposal-6.988 Occupied by plant, buildings, & roads-5.850 Other Purpose-46.087	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	150 saplings planted	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No reject	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock - 99,210.040 T	Given in Part VI, Sl 2 & 3(ii).	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price & Cost of Production - Rs 375.49/- per tonne	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	Furnished jointly for 6 mining leases along with 38TMN38006	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	Surface Miner-1, Shovel-3, Ripper Dozer-1, Tipper-10, Water Tanker-1, Explosive Van-1, Other HEMM-1 Blast Host Drill-1 Compressor-1	Given in Part V, Sl 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

Date:

(Matiul Islam)

Indian Bureau of Mines