

INDIAN BUREAU OF MINES

MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/TKD/LST-34.MDS		Mine Code: 38TMN29001
Name of the inspecting officer designation	Shri. Matiul Islam Assistant Controller of Mines	
Date of inspection:	08-12-2024	
Accompanied mine official and designation	Mr. K.Saravanan (SDGM-Mines) – Mine Manager Mr. Godavarthy Umasankar, – Mining Engineer Mr.R.Rengaraj – AGM Geology	

PART-I: General Information

S.N.	Particulars	Details
1	Name of the Mine	SIVALARPATTI LIMESTONE MINE - LEASE III
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	7.66.5
3	Minecode	38TMN29001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District, Tamilnadu Phone: 04562-256201, 202 and 203 Email: saravanankmtd@ramcocements.co.in
6	Village	Sivalarpatti
7	Taluka/Mandal	Vilathikulam
8	District	Thoothukudi
9	Pin code	626113
10	State	Tamilnadu
11	Post office	Pudur
12	Nearest police station	Pudur
13	Nearest Railway station	Aruppukottai
14	Date of Grant of Mining Lease	03.06.1983
15	Date of Execution	22.08.1983
16	Date of opening of Mine	07.02.1994
17	Date of first Renewal, if applicable and its period & expiry	G.O.Ms.No.513 dt. 19-12-1991 / 10 Years from 22.08.1987 to 21.08.1997
18	Date of second Renewal, if applicable and its period & expiry	Rc.No.9712 dt. 28-02-2014 / 20 Years from 22.08.1997 to 21.08.2017
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	As per the section 8A (5) of MM (D&R) Amendment Act-2015, The Lease period is extended upto 21.08.2033 vide G.O.No.107 dated 18.09.2018. Transfer of Lease granted vide G.O.Ms.No.247dt.23-11-2020 from M/s Lovely Chemicals to M/s. The Ramco Cements Limited
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	P.R.VENKETRAMA RAJA, Managing Director, The Ramco Cements Limited, 5 th Floor, Auras Corporate Centre, 98-A, Dr.Radhakrishnan Salai, Mylapore, Chennai-600004. Phone:044 28478666 Date of Appointment: 01-12-2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. S.LAKSHMANAN, Assistant Vice President (Mfg), The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202and 203 Email: sln@ramcocements.co.in Date of Appointment: 18.05.2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of	K.SARAVANAN, Sr.DGM-Mines,

	appointment in mines	The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: saravanankmtd@ramcocements.co.in Date of Appointment: 04-07-2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	GODAVARTHY UMASANKAR, Dy. Manager-Mines, The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: saravanankmtd@ramcocements.co.in Date of Appointment: 04-07-2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	M.ASWIN, Geologist The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: rengarajb@ramcocements.co.in Date of Appointment: 22-04-2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/VOC/MP/LST-1028-MDS Dt. 14-10-1997 Period 1997-98 to 2001-02.
26	Date of Approval Review of Mining Plan/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	TN/TKD/LST/ROMP-1667.MDS Dt. 26-11-2021 Period 2022-23 to 2026-27
27	Mineral(s) granted in lease and proved for mining	LIMESTONE
28	Method of Mining(Open cast, Underground)	OPENCAST
29	Category (Fully Mechanised, Others or Manual)	FULLY MECHANISED – A Category
30	Captive/Non Captive	CAPTIVE

Exploration (2023 to 2024)

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.	G-1	G-1	Nil
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	Nil
1e	Balance reserves as on 01.04.2024 (111+121 Category)	0.129 Mil.Tons	0.129 Mil.Tons	Reserves as on 01.04.2024
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease were found satisfactory

Development (2023 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	ML - 20.5 to 23 Above +45 RL	ML - 20.5 to 23 Above +45 RL	Nil
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed	Separate benches maintained	OB -1 Limestone-2
2c	Stripping ratio or ore to OB ratio	1:3.42	1:3.39	Within limit
2d	Quantity of topsoil generation in m ³	5,654	5,371	Within limit
2e	Quantity of overburden generation in m ³	71,460	70,745	Within limit
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Development of the pit was found satisfactory

Exploitation (2023 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit	Single Pit	As proposed
3b	Quantity of ROM mineral production proposed	62,500 T	62,310.98 T	Within limit
3c	Recovery of salable/usable mineral from ROM production	90 %	100 %	Entire ROM generated consumed by blending
3d	Quantity of mineral reject generation	6,250 T	Nil	Entire ROM generated consumed by blending
3e	Grade of mineral reject generation and threshold value declared	<34 CaO	<34 CaO	Threshold value maintained.
3f	Quantity of sub-grade mineral generation	Nil	NA	Nil
3g	Grade of sub-grade mineral generation	Nil	NA	Nil
3h	Manual / Mechanized 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	Spacing - 4.0 m Burden - 3.0 m Depth - 10 m Dia - 115 mm	Spacing - 4.0 m Burden - 3.0 m Depth - 10 m Dia - 115 mm	Slurry Explosives with ANFO proposed and utilised
3k	Provision of mining machineries in mineral benches	Excavator -2, Air Compressor-1, Drill-1, Tipper-10	Excavator -2, Air Compressor-1, Drill-1, Tipper-10	HEMM proposed & deployed
3l	Whether height of benches in over -burden and mineral suitable for method of mining proposed in MP/SOM	Height - 9 m Width - 9 m	Height - 9 m Width - 9 m.	Suitable
3m	Total area covered under excavation/pits	3.99 Ha	2.92 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year	1:3.42	1:3.39	Within limit

3o	Total area put in use under different heads at the end of year	7.665 Ha	7.665 Ha	Within limit
3p	Production of ROM mineral during last five-year period, as applicable (2019-20 to 2023-24)	2019-20=61,200 2020-21=61,884 2021-22=33,338 2022-23=48,805 2023-24=62,500	2019-20= Nil 2020-21= Nil 2021-22=33,336.44 2022-23=48787.52 2023-24=62310.98	Nil
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Method of mining was found satisfactory.

Solid Waste Management-Dumping (2023 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping proposed	Separate dumping carried out	As proposed
4b	Location of topsoil, OB & mineral reject dumps	OB Dump N9° 18' 55.96" E78° 09' 10.23"	OB Dump N9° 18' 55.96" E78° 09' 10.23"	As proposed
4c	Number of dumps within lease area and outside lease area	2 Nos. Within ML	2 Nos. Within ML	As proposed
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	No Proposal Made	Nil	Existing Garland Drain has been desilted
4i	Length of Retaining wall or garland drain all along dump	No Proposal Made	Nil	500mX2mX1m
4j	Number of settling ponds	No Proposal Made	Nil	1 No.(outside ML)
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste Dump Management was found satisfactory

Solid Waste Management - Backfilling (2023 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Nil	Nil
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	Nil
5e	General Remarks of inspecting officer on backfilling, reclamation etc	-	-	No backfilling or reclamation was proposed or carried out.

Progressive Mine Closure Plan (2023 to 2024)

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.	No proposal	Periodically Submitted	Along with AR
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	Nil	NA	Nil
6c	Management of worked/mined out benches Afforestation done (ha)	Nil	NA	Nil
6d	Management of worked/mined out benches No. of saplings planted during the year	Nil	NA	Nil
6e	Management of worked/mined out benches Cumulative no. of plants	Nil	NA	Nil

6f	Management of worked/mined out benches Any other specific method of rehabilitation	Nil	NA	Nil
6g	Management of worked/mined out benches Cost incurred on watch & care during the year	Nil	NA	Nil
6i	Compliance on reclamation and rehabilitation by backfilling Void filled by waste/tailings	Nil	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling Afforestation on the 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	360 Nos	367 Nos	As proposed
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	0.30 Ha	0.30 Ha	As proposed
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Afforestation	Afforestation	Neem, Pungai & Vagai
6p	Compliance of Environmental monitoring (core zone & buffer zone)	No proposal	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 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines	Nil	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	ROM is being transported to crusher located outside ML, where color-based sorting technology is being used for beneficiation of Limestone.

Environment (2023 to 2024)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil removal & storage proposed	Topsoil removed & stored	As proposed
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump ML-16 to 17 Location Near: N9° 18' 55.96" E78° 09' 10.23"	OB Dump ML-16 to 17 Location Near: N9° 18' 55.96" E78° 09' 10.23"	As proposed

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.30 Ha	0.30 Ha	As proposed
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	360 Nos	367 Nos	As proposed
8g	Survival rate	80 %	90 %	As proposed
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	-	-	Aesthetic beauty in and around mines area was found satisfactory

Compliance of Rule 45 (2023-2024)

S.N.	Item	Details Given in AR	Comments of I/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	Shri. K.Saravanan (Mine Manager), Shri. Godavarthy Umasankar (Mining Engineer) & Shri. M.Aswin (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.	2.92 Ha. Under current workings, 0.360 Ha. for waste disposal, 0.10 Ha for office etc, as per AR 2023-24.	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	367 Nos Sapplings planted	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil Stock	Given in Part VI, Sl 2 & 3(ii).	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production & Ex Mine Price @ Rs.550.24	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.29229519 shown as fixed asset value in AR 2023-24.	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	BACK HOE 0.900 CUM - 1, TIPPER 12 CUM -2	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