

INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/TKD/LST-7.MDS		Mine code - 38TMN15045
	Name of the inspecting officer designation	Shri. Matiul Islam Assistant Controller of Mines, IBM, Chennai
	Date of inspection:	06-10-2024
	Accompanied mine official and designation	Mr. K.Saravanan (SDGM-Mines) R.Rengaraj - Qualified Person Masoom Basha - Mine Manager & Engineer E.Suresh - Geologist
PART-I: General Information		
S.N.	Particulars	Details
1	Name of the Mine	Sivalarpatti Limestone Mine-Lease-I G.O.Ms.No-34 (Previous G.O.Ms.No.334)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	150.11.0 Ha.-Non Forest
3	Mine code	38TMN15045
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	Pudur, Kullakattankurichi, Sivalarpatti and Muthusampuram
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	23.12.1994
15	Date of Execution	22.05.1995
16	Date of opening of Mine	01.04.1996
17	Date of first Renewal, if applicable and its period & expiry	G.O.Ms.No.34 dated 02.04.2018. As per the Section 8A (5) of the MM (D&R) Amendment Act, 2015, the validity of the lease period was extended upto 21-05-2045
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	Shri. 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: 01.04.2004
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 appointment in mines	Shri. SMD MASOOM BASHA, Asst.General 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: 01.04.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. SMD MASOOM BASHA, Asst.General 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: 01.04.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri. E. SURESH, Sr.Manager (Geology), The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: suresh@ramcocements.co.in Date of Appointment: 01.02.2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/KMJ/MP/L.ST-289-MDS, Dt. 23-10-1989
26	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	TN/TKD/LST/ROMP-1591.MDS dated 30/07/2020 for the period from 2020-21 to 2024-25.
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised – “A Category”
30	Captive/Non Captive	Captive

PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER

Exploration (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	6 Boreholes for a total meterage of 563 metres drilled during the year 2022-23	A total of 157 boreholes for a total meterage of 8280 metres has been drilled so far
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	Potentially Mineralised Area fully explored upto G1 Level
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	6 No. of core bore holes drilled for a total meterage of 563 metres with expenditure of Rs.10.80 Lakhs in 2022-23	Geological Report submitted to AD Mines Office, Thoothukudi
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	NA	Area fully explored upto G1 Level
1e	Balance reserves as on 01.04.2024 (111+121 Category)	1.60 Mil.Tons (as per the proposed depletion from the previous reserve estimation)	1.88 Mil.Tons (as reported in last filed Annual Return)	3.466 Mil.Tons Proved Reserves (111) available as on 01-09-2024 as per Latest Geological Report.
1f	General comments of inspecting officer on geology, exploration etc.	-	-	The lessee has revised reserve and resource estimation with a Geological Report based on fresh exploration of the lease and has submitted the same along with ROMP that is currently being processed.

Development (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<u>Pit 1A-</u> ML 30.00 to 33.50 above -12 RL <u>Pit 1B</u> ML 26 to 28.50 above +31.50 RL <u>Pit-2</u> ML 4.50 to 13.60 above -14 RL	<u>Pit 1A-</u> ML 30.00 to 33.50 above -12 RL <u>Pit 1B</u> ML 26 to 28.50 above +31.50 RL <u>Pit-2</u> ML 4.50 to 13.60 above -14 RL	As proposed
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	<u>Pit 1A</u> OB-9,Limestone-3 <u>Pit 1B</u> OB-3,Limestone-1 <u>Pit 2</u> OB-9,Limestone-2	<u>Pit 1A</u> OB-9,Limestone-3 <u>Pit 1B</u> OB-3,Limestone-1 <u>Pit 2</u> OB-9,Limestone-2	As proposed
2c	Stripping ratio or ore to OB ratio	1 : 2.22	1 : 2.00	Within acceptable limit
2d	Quantity of topsoil generation in m ³	Nil	Nil	Nil
2e	Quantity of overburden generation in m ³	536400	482138	Within acceptable limit
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	The development of the pit was found satisfactory.

Exploitation (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	<p>Pit 1A- ML 30.00 to 33.50 above -12 RL</p> <p>Pit 1B ML 26 to 28.50 above +31.50 RL</p> <p>Pit-2 ML 4.50 to 13.60 above -14 RL</p>	<p>Pit 1A- ML 31.5 to 36.5 above -12 RL</p> <p>Pit 1B ML 26 to 28.5 above +40 RL</p> <p>Pit-2 ML 4.5 to 13.5 above -14 RL</p>	As proposed
3b	Quantity of ROM mineral production proposed	689800 Tonnes	689654.38 Tonnes	Within limit
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	<34 CaO	<34 CaO	Threshold value maintained.
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	Deep hole drilling and blasting. Spacing-3.5 m, Burden-2.5 m, Depth-10 m	Deep hole drilling and blasting. Spacing-3.5 m, Burden-2.5 m, Depth-10 m	Controlled Blasting Techniques utilised
3k	Provision of mining machineries in mineral benches	Front End Loader 3.2 Cu.M - 1, Back Hoe 0.900 Cu.M - 3, Tipper 12 Cu.M - 8, Blast Hole Drill 115 mm -1, Air Compressor 400 Cu.M/Min-1	Front End Loader 3.2 Cu.M - 1, Back Hoe 0.900 Cu.M - 3, Tipper 12 Cu.M - 8, Blast Hole Drill 115 mm -1, Air Compressor 400 Cu.M/Min-1	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m height benches proposed both in Ore and OB.	9 m height benches proposed both in Ore and OB.	Suitable
3m	Total area covered under excavation/pits	51.12 Ha	51.12 Ha	As proposed
3n	Ore to OB ratio for the pit/mine during the year	1:2.22	1:2.00	Within acceptable limit
3o	Total area put in use under different heads at the end of year (2023-24)	87.85 Ha	85.84 Ha	Excluding Green Belt
3p	Production of ROM mineral during last five-year period, as applicable (2018-19 to 2023-24)	2019-20=6,89,995 2020-21=6,89,725 2021-22=6,89,400 2022-23=6,89,960 2023-24=6,89,800	2019-20=6,86,378 2020-21=5,95,304 2021-22=5,23,033 2022-23=6,09,421.62 2023-24=6,89,654.38	Within limits.
3q	General Remarks of inspecting officer on	-	-	The method of mining was

method of mining etc.			found satisfactory.
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Solid Waste Management-Dumping (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	2 nos. new Dump on the Hanging wall Side & Southern Side of Pit No-1A	2 nos. new Dump on the Hanging wall Side & Southern Side of Pit No-1A	Nil
4b	Location of topsoil, OB & mineral reject dumps	2 OB Dumps ML 22 to 26 & ML 27 - 29	2 OB Dumps ML 22 to 26 & ML 27 - 29	As proposed
4c	Number of dumps within lease area and outside lease area	Within ML Area-6 Partly within ML-5	Within ML Area-6 Partly within ML-5	Some old dumps lying partly outside the lease area since before restriction of outside dumping, as per counter-affidavit filed by this office in a connected court case, observed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit Limit	Outside Ultimate Pi Limit	As proposed
4e	Number of active & alive dumps	5	5	Nil
4f	Number of dead dumps	6	6	Nil
4g	Number of dumps stabilized	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Nil	5 Nos of Existing Garland Drains maintained.
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Nil	8700 m length of Existing Garland Drains maintained.
4j	Number of settling ponds	Nil	Nil	2 Nos of existing settling ponds maintained
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory. Some old dumps lying partly outside the lease area since before restriction of outside dumping, as per counter-affidavit filed by this office in a connected court case, observed.

Solid Waste Management - Backfilling (2023-2024)

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

Progressive Mine Closure Plan (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
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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.	Periodical Submission proposed	PMCP report submitted along with Annual Return	Nil
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	Management of worked/mined out benches No. of saplings planted during the year	Nil	Nil	Nil
6e	Management of worked/mined out benches Cumulative no. of plants	Nil	Nil	Nil
6f	Management of worked/mined out benches Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Management of worked/mined out benches Cost incurred on watch & care during the year	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling Void filled by waste/tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling 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	5200 Nos	7025 Nos	As proposed
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	4.70 Ha	4.70 Ha	As proposed
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Afforestation	Afforestation	Neem, Pungai & Vagai Saplings were Planted
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Periodical Monitoring proposed	Periodical monitoring carried out	All the parameters within norms.
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	PMCP Compliance and progressive closure operations were found satisfactory.

Mineral Conservation (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	NA	No mineral sorting at pit level. Entire ROM is being transported to beneficiation plant located outside the ML area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	NA	Nil
7c	Different grade of mineral sorted out at mines	Nil	NA	No segregation of mineral at mine head.
7d	Any beneficiation process at mines	Nil	NA	Beneficiation plant located outside ML area.

7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues			
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Environment (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed	Separate dumps maintained	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)	Nil	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	5200 Nos saplings proposed for the year	7025 Nos saplings planted during the year	81,698 nos saplings planted cumulatively
8g	Survival rate	90%	90 %	90 % of Survival Rate maintained
8h	Water sprinkling on roads to control airborne dust	Water Tanker Deployment proposed	Water tanker deployed	As proposed
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area found satisfactory.

Compliance of Rule 45 (2023-2024)

S.N.	Item	Details given in AR	Observations	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 : SHRI S MD MASOOM BASHA Mining Engineer in charge: SHRI S MD MASOOM BASHA Geologist in charge : SHRI E SURESH	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.	51.12 Ha. Under current workings, 32.18 Ha. for waste disposal, 2.54 Ha for office etc,	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	7025 Nos	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	Ex Mine Price @ Rs.551.90	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs.3,10,07,343/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	Front End Loader 3.2 Cu.M - 1, Back Hoe 0.900 Cu.M - 3, Tipper 12 Cu.M - 8, Drill 115 mm -1, Air Compressor 400 Cu.M/Min-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