

INDIAN BUREAU OF MINES  
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/VRD/LST-5.MDS		Mine Code: 38TMN30002
	Name of the inspecting officer designation	Shri. Matiul Islam Assistant Controller of Mines
	Date of inspection:	06-12-2024
	Accompanied mine official and designation	Mr. K.Saravanan (SDGM-Mines) Mr. S.KESAVAN, DGM - Mine Manager Mr. RAVIKUMAR G, Manager - Mining Engineer Mr.R.Rengaraj - AGM - Geologist
PART-I: General Information		
S.N.	Particulars	Details
1	Name of the Mine	PANDALGUDI LIMESTONE MINE (G.O.Ms.No.26 dated 26.03.2018)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	186.68.0
3	Minecode	38TMN30002
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	Pandalgudi
7	Taluka/Mandal	Aruppukottai
8	District	Virudhunagar
9	Pin code	626113
10	State	Tamilnadu
11	Post office	Pandalgudi
12	Nearest police station	Pandalgudi
13	Nearest Railway station	Aruppukottai
14	Date of Grant of Mining Lease	11.05.1971
15	Date of Execution	05.08.1971
16	Date of opening of Mine	1979
17	Date of first Renewal, if applicable and its period & expiry	05.08.1991 to 04.08.2001 (20 Years)
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	Renewal application dt.08.08.2000 As per the section 8A (5) of MM(D&R) Amendment Act-2015,The Lease period is extended upto 31.3.2030 vide G.O.Ms.No.26 dated 26.3.2018 and the Lease deed executed on 14.08.2020 and the same was registered on 10.09.2020
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 <sup>th</sup> 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	S.KESAVAN, Dy.General Manager (Mines) The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: sksn@ramcocements.co.in Date of Appointment: 01.04.2015
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	RAVIKUMAR G 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: 11.01.2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	R. RENGARAJ, Asst.General Manager (Geology) The Ramco Cements Limited, Ramasamy Raja Nagar, Virudhunagar District. Phone: 04562-256201, 202 and 203 Email: rengarajb@ramcocements.co.in Date of Appointment: 16-08-2019
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/VRD/MP/Lst/1221/SZ dated 31.05.2000. Period 2000-2006.
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/VRD/LST/ROMP-1644.MDS dated 18-03-2021 Plan Period - 2021-22 to 2025-26
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	Entire potentially mineralised area fully explored.
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	Sufficient drilling of about 7379 mts of DDH drilled so far.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	Explored by TRCL & ACC
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Total mineralized area fully explored
1e	Balance reserves as on 01.04.2024 (111+121 Category)	2,11,429 Tons	3,23,614 Tons	Less depletion of reserves during the plan period
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease was found satisfactory

**Development (2023 to 2024)**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit No-5 ML - 42 to 47.50 Above+26 RL	Pit No-5 ML - 42 to 47.50 Above+26 RL	As proposed
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Pit No.5 OB-4 Limestone-2	Pit No.5 OB-4 Limestone-2	Separate benches are maintained in OB and Mineral
2c	Stripping ratio or ore to OB ratio	1:3.80	1:2.66	Violation pointed out for deviation from development proposal
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	Nil
2e	Quantity of overburden generation in m <sup>3</sup>	405617	283932	Violation pointed out for deviation from development proposal
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Violation pointed out for deviation from development proposal

**Exploitation (2023 to 2024)**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Pit No-5 ML - 44 to 47 +63 TO 17 RL	Pit No-5 ML - 44 to 47 +63 TO 17 RL	As proposed
3b	Quantity of ROM mineral production proposed	305364 Tonnes	304983.28 Tonnes	Within proposal
3c	Recovery of salable/usable mineral from ROM production	90 %	100 %	100% ROM quantity has been consumed.
3d	Quantity of mineral reject generation	Nil	NA	100% ROM quantity has been consumed.
3e	Grade of mineral reject generation and threshold value declared	<34 CaO	<34 CaO	Nil
3f	Quantity of sub-grade mineral generation	Nil	NA	No subgrade mineral generation.
3g	Grade of sub-grade mineral generation	Nil	NA	No subgrade mineral generation.
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 - 3.5 m Burden - 2.5 m Depth - 10 m Dia - 115 mm	Spacing - 3.5 m Burden - 2.5 m Depth - 10 m Dia - 115 mm	As proposed
3k	Provision of mining machineries in	Excavator -1	Excavator -1	Nil

	mineral benches	Backhoe loader-2, Air Compressor-2, Drill- 2, Rock Breaker-1, Tipper-16	Backhoe loader - 3, Air Compressor-1, Drill-1, Tipper-7	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 9 m Width - 9 m Ramp - 12 m	Bench height - 9m Width - 9m Ramp - 12 m.	As proposed
3m	Total area covered under excavation/pits	64.95 Ha	63.70 Ha	Within proposal
3n	Ore to OB ratio for the pit/mine during the year	1:3.80	1:2.66	Violation pointed out for deviation from development proposal
3o	Total area put in use under different heads at the end of year	108.82 Ha	106.83 Ha	Within proposal
3p	Production of ROM mineral during last five-year period, as applicable (2019-24)	2019-20=3,05,188 2020-21=3,05,500 2021-22=3,04,978 2022-23=3,04,892 2023-24=3,05,364	2019-20=3,02,069 2020- 21=303815.84 2021-22 =2,88,586 2022-23 =2,09,480.50 2023-24 =3,04,983.28	Within proposal
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Violation pointed out for deviation from development proposal

#### 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)	No dumping proposed for the year	No dumping carried out during the year.	Nil
4b	Location of topsoil, OB & mineral reject dumps	DUMP-1 : 180180E-180300E to 1040346N-1040494N  DUMP-2 : 180341E-180475E to 1040093N-1040287N  DUMP-3 : 180411E-180652E to 1039683N-1039924N  DUMP-4 : 181120E-181382E to 1038655N-1039120N  DUMP-6 : 181994E-182102E to 1037310N-1037409N  DUMP-7 : 182103E-182284E to 1036967N-1037396N  DUMP-8 : 180483E-180800E to 1038996N-1039423N  DUMP-9 : 181019E-181092E to 1038584N-	DUMP-1 : 180180E-180300E to 1040346N-1040494N  DUMP-2 : 180341E-180475E to 1040093N-1040287N  DUMP-3 : 180411E-180652E to 1039683N-1039924N  DUMP-4 : 181120E-181382E to 1038655N-1039120N  DUMP-6 : 181994E-182102E to 1037310N-1037409N  DUMP-7 : 182103E-182284E to 1036967N-1037396N  DUMP-8 : 180483E-180800E to 1038996N-1039423N  DUMP-9 : 181019E-181092E to 1038584N-	Dumps - 5 & 10 are situated outside lease area.

		1038749N  DUMP-11 : 181503E-181974E to 1037109N-1037775N  DUMP-12 : 181818E-182276E to 1036765N-1037153N  DUMP-13 : 182286E-182380E to 1036702N-1036814N  DUMP-14 : 182383E-182538E to 1036567N-1036802N  DUMP-15 : 182452E-182634E to 1036306N-1036533N	1038749N  DUMP-11 : 181503E-181974E to 1037109N-1037775N  DUMP-12 : 181818E-182276E to 1036765N-1037153N  DUMP-13 : 182286E-182380E to 1036702N-1036814N  DUMP-14 : 182383E-182538E to 1036567N-1036802N  DUMP-15 : 182452E-182634E to 1036306N-1036533N	
4c	Number of dumps within lease area and outside lease area	Within ML-2 Nos, Partly Outside ML-11 Nos & Outside ML-2 Nos.	Within ML-2 Nos, Partly Outside ML-11 Nos & Outside ML-2 Nos.	Nil
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	Nil	Nil	Nil
4f	Number of dead dumps	11	11	Nil
4g	Number of dumps stabilized	4	4	Stabilized
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Nil	Desilting of Existing Garland drain for about 1800 m has been carried out.
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	1800mX2mX1m
4j	Number of settling ponds	Nil	Nil	Existing Settling Pond Dimension (2. Nos) 50m x 30m x 3m
4k	Specific comments of inspecting officer on waste dump management	-	-	No waste dumping was proposed or carried out during the year.

#### 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	Partial backfilling proposed in Pit No-6 after complete exhaustion of mineral.	Partial backfilling carried out in Pit No 6.	As proposed
5b	Area under backfilling of mined out area	Partial backfilling proposed in Pit No-6	Partial backfilling proposed in Pit No-6	Only proposed location for backfilling specified in last approved ROMP, area to be backfilled not specified

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	NA	No topsoil generation.
5d	Total area fully reclaimed & rehabilitated	Nil	NA	Already 2.80 Ha. of Mined out Area Refilled & Reclaimed
5e	General Remarks of inspecting officer on backfilling, reclamation etc	-	-	Backfilling & reclamation activities were found satisfactory.

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.	Periodically Submitted	Periodically Submitted	Nil
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	Partial backfilling proposed in pit no 6	Partial backfilling carried out in pit no 6	Only proposed location for backfilling specified in last approved ROMP, area to be backfilled not specified.
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	2200 Nos	2350 Nos	As proposed
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	1.80 Ha	1.80 Ha	As proposed
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Afforestation	Afforestation	As proposed
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Periodic monitoring proposed	Periodic monitoring carried out	All 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 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	Optical Sorting carried out mechanically at plant located outside lease area.
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	-	-	No issues were observed with mineral conservation. No beneficiation proposed or carried out within lease. Entire ROM generated is consumed.

**Environment (2023 to 2024)**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil removal, storage or utilization proposed for the year	No topsoil removal, storage or utilization carried out during the year	Nil
8b	Concurrent use or storage of topsoil	No topsoil removal, storage or utilization proposed for the year	No topsoil removal, storage or utilization carried out during the year	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only Backfilling Proposed	Only Backfilling carried out	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling Proposed	Backfilling carried out	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling Proposed	Backfilling carried out	As proposed
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation with 2200 No. of Saplings	Plantation with 2350 Nos of Neem, Pungai, Vagai, etc.,	Nil
8g	Survival rate	Not specified	95 %	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling carried out	10 KL Water Tanker deployed for Dust Suppression
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	Mine Manager - Shri.S.Kesavan Mining Engineer - Shri. G.Ravikumar Geologist - Shri. R.Rengaraj	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.	Area covered under current workings-60.90 Ha, Reclaimed Area-2.80 Ha, Waste Dump-26.33 Ha, Others (Road, Infrastructure, Green Belt & Area to be mined) - 93.85 Ha.	Given in Part I, Sl 12.	Nil

9d	Scrutiny of Annual return on afforestation	2350 Saplings were 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.514.74 / Ton	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 4,70,18,490/-.	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	FRONT END LOADER 3.000 CUM- 1, BACK HOE 1.800 CUM - 2, TIPPER 12.000 CUM -7, BLAST HOLE DRILL 115 MM -1, AIR COMPRESSOR 400 CUM/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
11(1)	01/01/2025				

Date:

(Matiul Islam)

Indian Bureau of Mines