

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

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-37.MDS		Mine code 38TMN24039
	Name of the inspecting officer, designation	Sri.Matiul Islam, ACOM
	Date of inspection:	03.09.2024
	Accompanied mine official and designation	Mr.K.Abraham & Mr.R.Senthamilselvan Mine Manager & Geologist
S.N.	Particulars	
1	Name of the Mine	Periyagalur Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	35.96.0 Ha (Non forest Land)
3	Mine code	38TMN24039
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Periyagalur Limestone Mine, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur District. Phone No: 044-28477504 Fax No: 28478676 Email id: magesh@ramcocements.co.in
6	Village	Periyagalur
7	Taluka/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621713
10	State	TamilNadu
11	Post office	V.Kaikatti
12	Nearest police station	Kairulabad
13	Nearest Railway station	Ariyalur
14	Date of Grant of Mining Lease	13-01-2003
15	Date of Execution	02-06-2003 & Supplementary lease deed executed on 28.06.2019
16	Date of first Renewal, if applicable and its period & expiry	Extension of Mining Lease obtained vide G.O.(Ms) No.77 Ind.(MMA.2) Department Dated 26.07.2018 & Valid upto 19.08.2053.
17	Date of second Renewal, if applicable and its period & expiry	Nil
18	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
19	Name of the Nominated Owner with Address, phone, email, fax number and Date of appointment	Shri.P.R. Venketrama Raja, The Ramco Cements Limited, Auras Corporate Centre, No:98A, 5 th Floor, Mylapore, Chennai. Telephone No: 044-28478666 Fax No: 28478676
20	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Madhusudan Kulkarni Sr.Vice President (Manufacturing) M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 Fax No: 28478676 madhusudan.k@ramcocements.co.in Date of Appointment: 16/09/2019
		Shri.K.Abraham,

21	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 Fax No: 28478676 abraham@ramcocements.co.in Date of Appointment: 01/02/2018
22	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri.Upparapalli Venkateswarlu, B.Tech Mining Engineer, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 minesary@ramcocements.co.in Date of Appointment:01/09/2018
23	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	S.Arun, Geologist M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. thamizh@ramcocements.co.in Date of Appointment: 09/04/2024
24	Date of Approval of Mining Plan /Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Approval date: 12/05/2000
25	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of the Mining Plan approval date: 14.12.2023 Letter No. TN/ALR/LST/ROMP-1704. MDS for the Period 2023-24 to 2027-28
26	Mineral(s) granted in lease and proved for mining	Limestone
27	Method of Mining(Open cast,Underground)	Open cast
28	Category (Fully Mechanised, Others or Manual)	"A" category Fully Mechanised
29	Captive/Non Captive	Captive Purpose

II - OBSERVATION AND COMMENTS OF INSPECTING OFFICER

Exploration

S.No	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Potentially mineralised area already fully explored upto G1 level.
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	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)	0.13 Mill.Tonnes	0.13 Mill.Tonnes	As proposed
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exporation of the lease were found satisfactory.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Ref With Grid)	Between Section Line 2 to Section Line-3	Between Section Line 2 to Section Line-3	As proposed
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	OB benches-3 L.st benches- 5	OB benches-3 L.st benches- 5	Separate benches maintained.

2c	Stripping ratio or ore to OB ratio	1:079	1:0	Violation pointed out for deviation from development proposals.
2d	Quantity of topsoil generation in m ³	21800	0	Violation pointed out for deviation from development proposals.
2e	Quantity of overburden generation in m ³	379150	0	Violation pointed out for deviation from development proposals.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit	-	-	Violation pointed out for deviation from development proposals.

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit operation	Single pit operation	As proposed
3b	Quantity of ROM mineral production proposed	299500 Tons	299352.73 Tons	Within limit
3c	Recovery of salable/usable mineral from ROM production	100 % mineral recovery proposed (299500 Tons)	100 % mineral recovered (299352.73 Tons)	As proposed
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	NA	NA	Nil
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	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	Drilling & Blasting proposed	Drilling & Blasting carried out	As proposed
3k	Provision of mining machineries in mineral benches	Pneumatic drilling machine & compressor - 1 No Excavator - 2 No's Tipper - 5 No's Dozer - 1 No Water Tanker - 1 No	Pneumatic drilling machine & compressor - 1 No Excavator - 2 No's Tipper - 7 No's Dozer - 1 No Water Tanker - 1 No	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Max Height - 8 m, Min Width - 8 m proposed	Max Height - 8 m, Min Width - 8 m maintained	As proposed
3m	Total area covered under excavation/pits	20.53.0 Ha	20.40.0 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year	1:0.79	1:0	Violation pointed out for deviation from development proposals.
3o	Total area put in use under different heads at the end of year	Area under mining 20.53.0 Storage for top soil 0.17.0 Overburden / dump 6.60.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Others to be specified (green belt etc.,) 7.96.0 Total 35.96.0	Area under mining 20.40.0 Storage for top soil 0.17.0 Overburden / dump 6.60.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Others to be specified (green belt etc.,) 8.09.0 Total 35.96.0	Within limits
3p	Production of ROM mineral during last five-year period, as applicable	2019-20 - 293912 Tons 2020-21 - 342100 Tons 2021-22 - 298540 Tons 2022-23 - 299280 Tons 2023-24 - 299500 Tons	2019-20 -289131.560 Tons 2020-21 -341572.540 Tons 2021-22 - 298456.54 Tons 2022-23 - 299204.90 Tons 2023-24 - 299352.73 Tons	Within limits

3q	General Remarks of inspecting officer on method of mining etc.	-	-	Method of mining was found satisfactory
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Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Concurrent utilisation of topsoil over backfilled area proposed	Nil	Violation pointed out for deviation from development proposals.
4b	Location of topsoil, OB & mineral reject dumps (Ref to Grids)	1230000 to 1230450 N / 297450 to 297900 E	1230000 to 1230450 N / 297450 to 297900 E	As per plan
4c	Number of dumps within lease area and outside lease area	Within the lease area - 5	Within the lease area - 5	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As per plan
4e	Number of active & alive dumps	1 No	1 No	As per plan
4f	Number of dead dumps	4 No's	4 No's	As per plan
4g	Number of dumps stabilised	4 No's	4 No's	As per plan
4h	Whether Retaining wall or garland drain all along dumps are there	Garland Drain proposed	Garland Drain constructed	As per plan
4i	Length of Retaining wall or garland drain all along dump	1500 mt proposed for the year	1500m long garland drain provided all along the dumps	As per plan
4j	Number of settling ponds	No Proposal for the year	Nil	Maintained 2 No's of settling ponds on the eastern side of the mining
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

Solid Waste Management - Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Along the northern side of the lease	Along the northern side of the lease	As proposed
5b	Area under backfilling of mined out area	2.92.0 Hectares	1.37.0 Hectares	Violation pointed out for deviation from backfilling proposal.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use proposed	No top soil generated	Violation pointed out for deviation from development proposals.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Nil
5e	General Remarks of inspecting officer on backfilling, reclamation etc	-	-	Violation pointed out for deviations from backfilling & development proposals.

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2)	Nil	Submitted the PMCP report vide Rule 23 E(2) of MCDR 2017	Along with Annual Return
6b	i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	Afforestation done (ha)	0.30.0 Ha	0.50.0 Ha	Nil
6d	No. of saplings planted during the year	750 No's	750 No's	As proposed
6e	Cumulative no. of plants	25000 No's	45585 No's	Nil
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	1.0 Lakhs	0.50 Lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Void available for backfilling	2.92.0 Hectares	1.37.0 Hectares	Violation pointed out for deviation from backfilling proposal.

6i	Compliance on reclamation and rehabilitation by backfilling (ii)Void filled by waste/tailings	2.92.0 Hectares	1.37.0 Hectares	Violation pointed out for deviation from backfilling proposal.
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	Proposed after exhaustion of mineral	Proposed after exhaustion of mineral	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	Nil	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	Nil	Nil	Nil
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Nil	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	Violation pointed out for deviation from backfilling proposal.

Mineral Conservation:

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	NA	NA	Nil
7c	Different grade of mineral sorted out at mines	NA	NA	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	No issues observed with mineral conservation. Entire ROM generated is consumed. No beneficiation proposed or carried out within the lease.

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal & utilisation of top soil proposed	Nil	Violation pointed out for deviation from development proposals.
8b	Concurrent use or storage of topsoil	Concurrent use proposed	Nil	Violation pointed out for deviation from development proposals.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumping proposed	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed by rehandling existing dump	Backfilling carried out by rehandling existing dump	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed by rehandling existing dump	Backfilling carried out using rehandling the existing dump	As proposed

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Within the lease area - 44,835 No's plantation done earlier	Within the lease area - 750 No's plantations done during the year	As proposed
8g	Survival rate	90%	90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling carried out	As proposed
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines was found satisfactory.

Compliance of Rule 45

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Nil	Submitted	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Upparapalli Venkateswarlu, Geologist - P.Sethamilselvan Mine Manager - K.Abraham	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 under mining 20.40.0 Storage for top soil 0.17.0 Overburden / dump 6.60.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 0.50.0 Others to be specified (green belt etc.,) 8.09.0 Total 35.96.0	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	750 No's	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No reject	Given in Part VI, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No 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.296.47/-	Given in Part VI, Sl 3 (ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed assets: Rs.12739213	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	Pneumatic drilling machine & compressor - 1 No Excavator - 2 No's Tipper - 7 No's Dozer - 1 No Water Tanker - 1 No	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 Issued on	Compliance on	Issued on	Compliance on
11(1) 20-09-2024			