

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

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-12.MDS		Mine code 38TMN24035
	Name of the inspecting officer, designation	Shri. Matiul Islam, ACOM
	Date of inspection:	02-09-2024
	Accompanied mine official and designation	Mr.K.Nagendran & Mr.P.Senthamilselvan Mine Manager & AGM (Geology)
S.N.	Particulars	
1	Name of the Mine	Kattupiringium Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	44.58.0 Ha (Non forest Land)
3	Mine code	38TMN24035
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/638/2011
5	Name of the lessee, Address, phone, email and fax number	Kattupiringium 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	Valajanagaram & PeriyanaGalur
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	17.09.1998
15	Date of Execution	16.03.2000
16	Date of opening of Mine	01.07.2002
17	Date of first Renewal, if applicable and its period & expiry	Nil
18	Date of second Renewal, if applicable and its period & expiry	Nil
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
20	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
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri.Madhusudan Kulkarni, SVP - Manufacturing / Agent 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

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri.K.Nagendran, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 Fax No: 28478676 nagendrank@ramcocements.co.in Date of Appointment: 27/07/2015
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	K.M.Ravikumar BE Mining Engineer, M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Phone No: 044-28477504 minesary@ramcocements.co.in Date of Appointment:01/10/2013
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	R.Senthilkumaran (Geologist) M/s. The Ramco Cements Limited, Govindapuram Works, Sendurai Road, Ariyalur. Mobile No: 9788859706 m03275@ramcocements.co.in Date of Appointment:04/05/2023
25	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: 27/09/1999
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1.Review of Mining Plan Letter no: TN/ALR/LST/ROMP-1574.MDS Dated:15.11.2019 (2020-21 to 2024-25) 2.Modification to the Approved Mining Plan Letter no: TN/ALR/LST/MMP-2116.MDS. Dated:30.07.2024 (2024-25)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast,Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	"A" category Fully Mechanised
30	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	2 Boreholes proposed during the current year 2024-25 as per the latest approved MMP.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	Entire potentially mineralised area already fully explored upto G1 level.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	Nil
1e	Balance reserves (111+121 Category)	1.95 Mil.Tonnes	1.95 Million Tons	Nil
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration 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)	No Proposal	Development has been done in SL-7-7"	Violation pointed out for deviation from development proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil-1 OB benches-3 L.st benches- 4	Topsoil-1 OB benches-3 L.st benches- 4	As proposed
2c	Stripping ratio or ore to OB ratio	1 : 0	1:0.53	Violation pointed out for deviation from development proposal
2d	Quantity of topsoil generation in m ³	No Proposal	29551	Violation pointed out for deviation from development proposal
2e	Quantity of overburden generation in m ³	No Proposal	370643	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

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit operation	Single pit operation	Done as per the proposal
3b	Quantity of ROM mineral production proposed	699920 Tons	699600.88 Tons	Within the approved limit
3c	Recovery of salable/usable mineral from ROM production	100 % mineral recovered from ROM (699920 Tons)	100 % mineral recovered from ROM (699600.88 Tons)	Done as per the proposal
3d	Quantity of mineral reject generation	Not Applicable as we proposed to consume on	As proposed, consumed on ROM (Run of Mine) basis	Not applicable
3e	Grade of mineral reject generation and threshold value declared	Not Applicable as we proposed to consume on	As proposed, consumed on ROM (Run of Mine) basis	Not applicable
3f	Quantity of sub-grade mineral generation	Not Applicable as we proposed to consume on	As proposed, consumed on ROM (Run of Mine) basis	Not applicable
3g	Grade of sub-grade mineral generation	Not Applicable as we proposed to consume on	As proposed, consumed on ROM (Run of Mine) basis	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	Not applicable
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	Non-conventional mining proposed with Xcentric Ripper-Dozer. Controlled Blasting proposed as contingency measure.	Non-conventional mining practiced with Xcentric Ripper-Dozer.	Done as per the proposal
3k	Provision of mining machineries in mineral benches	Pneumatic drilling machine & compressor - 1 No Ripper - 1 No Excavator - 2 No's Tipper - 18 No's Dozer - 1 No Water Tanker - 1 No	Pneumatic drilling machine & compressor - 1 No Ripper - 1 No Excavator - 2 No's Tipper - 18 No's Dozer - 1 No Water Tanker - 1 No	As per Plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m bench height proposed	8 m bench height maintained	As per Plan

3m	Total area covered under excavation/pits	24.62 Ha	7.53 Ha	14.58 Ha reclaimed and rehabilitated so far
3n	Ore to OB ratio for the pit/mine during the year	1 : 0	1:0.53	Violation pointed out for deviation from development proposal
3o	Total area put in use under different heads at the end of year	Area under mining 24.62.0 Storage for top soil 0.45.0 Overburden / dump 2.30.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 1.50.0 Others to be specified (Backfilling, green belt etc.,) 15.51.0 Total 44.58.0	Area under mining 7.53.0 Storage for top soil 0.00.0 Overburden / dump 1.03.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 1.25.0 Others to be specified (Backfilling, green belt etc.,) 34.57.0 Total 44.58.0	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20 - 899760 Tons 2020-21 - 699800 Tons 2021-22 - 699520 Tons 2022-23 - 699920 Tons 2023-24 - 699920 Tons	694281.18 Tons 699713.72 Tons 682795.11 Tons 699836.80 Tons 699600.88 Tons	Within the proposal
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Method of mining was found satisfactory

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	Separate dumping carried out	Violation pointed out for deviation from development proposal
4b	Location of topsoil, OB & mineral reject dumps (Ref to Grids)	Existing 1 No of OB dump located in - N 930 to 1080 & E 1360 - 1460	Existing 1 No of OB dump located in - N 930 to 1080 & E 1360 - 1460	Nil
4c	Number of dumps within lease area and outside lease area	One Dump	One Dump	Within the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active & alive dumps	1 No of Active Dump	1 No of Active Dump	Nil
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilised	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	No proposal	700m long garland drain has been maintained all along the dumps	Nil
4j	Number of settling ponds	No proposal	Maintained 2 No's of	Nil
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	No proposal	Mined out area backfilled using OB generated during the year	Violation pointed out for deviation from backfilling proposal
5b	Area under backfilling of mined out area	No proposal	1.37.0 Ha	Violation pointed out for deviation from backfilling proposal

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Topsoil has been used for green belt development on the backfilled area.	Violation pointed out for deviation from backfilling proposal
5d	Total area fully reclaimed & rehabilitated	0.50.0 Ha	1.00.0 Ha	Violation pointed out for deviation from backfilling proposal
5e	General Remarks of inspecting officer on backfilling, reclamation etc	-	-	Violation pointed out for deviation from backfilling proposal

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	Along with the Annual Return
6b	Area available for rehabilitation (ha)	0.50.0	1.00.0	Afforestation more than proposed
6c	Afforestation done (ha)	0.50.0	1.00.0	Afforestation more than proposed
6d	No. of saplings planted during the year	1000 No's	2000 No's	Afforestation more than proposed
6e	Cumulative no. of plants	Nil	39800 No's	As per Plan
6f	Any other specific method of rehabilitation	Not applicable	Not applicable	Nil
6g	Cost incurred on watch & care during the	Nil	1.50 Lakhs	As per Plan
6h	Compliance on reclamation and rehabilitation by backfilling (i) Void available for backfilling	No proposal	1.37.0 Ha	Violation pointed out for deviation from backfilling proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii)Void filled by waste/tailings	No proposal	1.37.0 Ha	Violation pointed out for deviation from backfilling proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on the backfilled area	1000 No's	2000 No's	Afforestation more than proposed
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	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)	Periodic monitoring proposed	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 were observed with mineral conservation. No beneficiation was proposed or carried out.

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Topsoil removed & used for green belt development on the backfilled area.	Violation pointed out for deviation from development proposal
8b	Concurrent use or storage of topsoil	No proposal	Topsoil removed & used for green belt development on the backfilled area.	Violation pointed out for deviation from development proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Overburden backfilled into mined out pits	Violation pointed out for deviation from backfilling proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Afforestation proposed over previously backfilled areas	Afforestation carried over backfilled areas	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-	39800 numbers saplings planted cumulatively	Nil
8g	Survival rate	90%	90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkler deployed	As proposed
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The 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 - K.M.Ravikumar Geologist - R.Senthilkumaran Mine Manager - K.Nagendran	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 7.53.0 Overburden / dump 1.03.0 Infrastructure (workshop, administrative building) 0.20.0 Roads 1.25.0 Others to be specified (Backfilling, green belt etc.,) 34.57.0 Total 44.58.0	Given in Part I, Sl 12	Nil

9d	Scrutiny of Annual return on afforestation	2000 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.296.60/-	Given in Part VI, Sl 3 (ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed assets: Rs.3,81,37,585/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	BACK HOE 0.900 CUM 2 Non Electrical Opencast TIPPER 10.000 CUM 8 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast DOZER 90.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 226.000 2 Non Electrical Opencast	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
11(1)	20-09-2024		

Date:

(Matiul Islam)
Indian Bureau of Mines