

INDIAN BUREAU OF MINES MINERAL DEVELOPMENT AND REGULATION DIVISION		
MCDR INSPECTION REPORT		
Chennai Regional Office		
Mine file No. TN/PBR/LST-53.MDS		Mine code - 38TMN24047
(i)	Name of the inspecting officer & Designation	Matiul Islam Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri. B. Vikram Pyus - AGM (Mines)
(iii)	Date of inspection	06/09/2024
S. N.	Particulars	Details
1	Name of the Mine	Alanthuraiyarkattalai Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	22.26.0 Ha(No Forest Land)
3	Mine code	170/38TMN24047
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/170/2011
5	Name of the lessee, Address, phone, email and fax number	Alanthuraiyarkattalai Limestone Mines Chettinad Cement Corpn (P) Ltd, Trichy-Ariyalur Road, Kilapaluvur - 621707 PhNo. 04329-250011 Email- arymines@chettinadcement.com Fax: 04329-250011
6	Village	Keelapalur
7	Taluk/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621707
10	State	Tamilnadu
11	Post office	Keelapalur
12	Nearest police station	Keelapalur
13	Nearest Railway station	Ariyalur
14	Date of Grant of Mining Lease	09.10.2003
15	Date of Execution	29.11.2006
16	Date of opening of Mine	01.04.2007
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Mohan Muthukaruppan M/s. Chettinad Cement Corporation Private Ltd, 4th Floor, Sigappi Aachi Building, 18/3, Rukmani Lakshmiopathy Road, Egmore, Chennai -08 Date of appointment :01.04.2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. R.P.Muthiah M/s Chettinad Cement Corporation (P) Ltd, Trichy-Ariyalur Road, Keelapalur, Ariyalur - 621707 Date of appointment :01.12.2022
22	Name of the Mines Manager with Address, phone, email, fax number	-

	and date of appointment in mines	
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	-
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	-
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan: TN/PBR/MP/LST-MP/1502/ Dated : 15.09.2003.
26	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 Mining Plan: TN/ALR/ROMP-1605.MDS dated five-year period 2020-21 To 2024-25
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/ Non captive	Captive

## PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER

## Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Mine already fully explored upto G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	G 1 Level	G 1 Level	21 Bore holes were drilled for a metre age of 252.50 m during 2012 to 2022.
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	No Movable reserve 1524380 T Blocked reserve (221)	No Movable reserve 1524380 T Blocked reserve (221)	As per approved FMCP.
1f	General remarks of inspecting officer on geology, exploration etc.	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	No Proposal	Nil	Nil
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Nil	Nil
2c	Stripping ratio or ore to OB ratio in m3	No Proposal	Nil	Nil
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Nil
2e	Quantity of overburden generation in m3	No Proposal	Nil	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	Existing 1 Pit	Mine inoperational since 18.06.2022 due to uneconomic mining conditions.

				FMCP implementation under progress.
3b	Quantity of ROM mineral production proposed	23-24 -250008 T	Nil	-do-
3c	Recovery of salable/usable mineral from ROM production	100%	Nil	-do-
3d	Quantity of mineral reject generation	Nil	Nil	-do-
3e	Grade of mineral reject generation and threshold value declared	NA	NA	-do-
3f	Quantity of sub-grade mineral generation	NA	NA	-do-
3g	Grade of sub-grade mineral generation	NA	NA	-do-
3h	Manual / Mechanized method adopted for segregating from ROM	NA	NA	-do-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	-do-
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	-do-
3k	Provision of mining machineries in mineral benches	Rock Breakers- 2 Nos Excavator - 0.90m <sup>3</sup> - 2 Nos - Tippers- 15 T-6Nos	Nil	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	-do-
3m	Total area covered under excavation/pits	19.10 Ha	18.38 Ha	-do-
3n	Ore to OB ratio for the pit/mine during the year	No Proposal in FMCP	Nil	-do-
3o	Total area put in use under different heads at the end of year	22.26 Ha	22.26 Ha	-do-
3p	Production of ROM mineral during last five-year period, as applicable	2019-20-400000 Ts 2020-21-200000 Ts 2021-22-250008 Ts 2022-23-150100 Ts 2023-24-50056Ts Total -470172	2019-20-252649 Ts 2020-21-117777Ts 2021-22- Nil 2022-23- Nil 2023-24- Nil Total - Nil	-do-
3q	General remarks of inspecting officer on method of mining etc.	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal in ROMP	No work done	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
4b	Location of topsoil, OB & mineral reject dumps	Existing top soil dump N 1221110-12212410 E 299215-299570	Existing top soil dump N 1221110-12212410 E 299215-299570	-do-
4c	Number of dumps within lease area and outside lease area	1	1	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-do-
4e	Number of active & alive dumps	Nil	Nil	-do-
4f	Number of dead dumps	1	1	-do-
4g	Number of dumps stabilized	1	1	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	-do-
4i	Length of Retaining wall or garland drain all along dump	No Proposal In FMCP	Nil	-do-
4j	Number of settling ponds	No Proposal in FMCP	Nil	-do-
4k	Specific comments of inspecting officer on waste dump management.	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## 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	Nil	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
5b	Area under backfilling of mined out area	No Proposal	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	-do-
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	-do-
5e	General remarks of inspecting	-	-	Mine inoperational

	officer on backfilling, reclamation etc			since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
--	---	--	--	---

## 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). Details should be given in the format as given in Annexure-20.	Periodically Submitted	For the year 2023-24 Annual returns along with PMCP submitted on 26.04.2024.	Nil
6b	Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	Afforestation done (ha)	Nil	Nil	Nil
6d	No. of saplings planted during the year	100	Nil	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
6e	Cumulative no. of plants	7300	9600	Nil
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	75000	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	Nil	Nil	Nil
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	Nil	Nil	Water found accumulated in the pit.
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	As proposed
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## 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	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not applicable	Not applicable	-do-
7c	Different grade of mineral sorted out at mines	Nil	Nil	-do-
7d	Any beneficiation process at mines	Nil	Nil	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal in ROMP	Nil	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.
8b	Concurrent use or storage of topsoil	No Proposal in ROMP	Nil	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal in ROMP	Nil	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal in ROMP	Nil	-do-
8e	Phased restoration, reclamation and	Nil	Nil	-do-

	rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed cumulative 7300	Till date cumulative proposal 9600 Nos .	-do-
8g	Survival rate	80%	80%	-do-
8h	Water sprinkling on roads to control airborne dust	Not applicable		-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Mine inoperational since 18.06.2022 due to uneconomic mining conditions. FMCP implementation under progress.

## Compliance of Rule 45

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks					
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Date 05.09.2024	Annual Returns: 26.04.2024						
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Given in Annual return part (I) section (3) Serial No -7, 8,9						
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-18.380 Ha Reclaimed-rehabilitated-0.00 Ha Waste Disposal-0.0 Ha Roads-0.10 Ha Afforestation Safety Zone- 3.380 Ha	Given in Annual return part (I) (12)						
9d	Scrutiny of Annual return on afforestation	Cumulative Afforestation -4800 With the lease area	PART-V (General Geology & Mining Section 5						
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject- Nil	PART-V (General Geology & Mining Section 3						
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	PART-VI (PRODUCTION, DESPATCHES AND STOCKS) (LIMESTONE) Section 2						
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	PART-VI (Production, despatches and stocks) (limestone) section 3						
9i	Scrutiny of Annual return on fixed assets	Nil	PART-II A (Capital Structure) Section 1						
9k	Scrutiny of Annual return on mining machineries	<table border="1"> <thead> <tr> <th>Type of Machinery</th> <th>Capacity of each unit</th> <th>No.of Units</th> </tr> </thead> <tbody> <tr> <td>Back Hoe</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Type of Machinery	Capacity of each unit	No.of Units	Back Hoe	0	0	PART-V (General Geology &
Type of Machinery	Capacity of each unit	No.of Units							
Back Hoe	0	0							



		Other HEM Machinery	0	0		Mining) Section 6
		Tipper	0	0		

\*\*\*\*\*

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