

**MCDR INSPECTION REPORT (2023-24)**

	Name of the inspecting officer designation	<b>Shri.Arun Vivek.V,</b> Junior Mining Geologist, IBM, Chennai,
	Date of inspection	<b>26.09.2024</b>
	Name of accompanying mine officials with designation	Mr.M.M.Ramesh, DGM (Mines) Mr.V.Sasikumar, Sr.Manager (Geology) Mr.S.Vijaya Prakash, Mining Engineer, Mr.M.Karthick Kumar, Geologist
<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	<b>Seethainagar Limestone Mine</b> <b>GO: 22/Ind/D2 dept. dated: 09.01.1989</b>
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	125.48.5 Hect. (Non Forest area)
3	Mine code	<b>38TMN33046</b>
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/170/2011
5	Name of the lessee, Address, phone, email and fax number	Chettinad Cement Corpn. Private Ltd., Meyyammai Building ,17/35, Gandhi Nagar, 2 <sup>nd</sup> Main Road, Adyar,Chennai - 600 020.
6	Village	Karikkali
7	Taluk	Guziliamparai
8	District	Dindigul
9	Pincode	624703
10	State	Tamilnadu
11	Post office	Alambadi
12	Nearest police station	Guziliamparai
13	Nearest Railway station	Palayam
14	Date of Grant of Mining Lease	09.01.1989
15	Date of Execution	01.03.1989
16	Date of opening of Mine	01.03.1989
17	Date of first Renewal, if applicable and its period & expiry	02.01.2008
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	As per Section 8 (A) of MMDR Amendment Act 2015, we are submitted application for extension of Mining lease on 02.08.2017. Supplementary lease deed is pending with State Government.  As per MMDR Amendment Act 2015, the validity of lease period is upto 28.02.2039 (i.e. 50 years from 01.03.1989 to 28.02.2039).

20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Shri.Mohan Muthukaruppan</b> Chettinad Cement Corpn. Private Ltd, Meyyammai Building ,17/35, Gandhi Nagar, 2nd Main Road, Adyar,Chennai - 600 020. Phone – 044-28292727, 42149955. Date of Appointment – 01.04.2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Shri.V.Krishnan,</b> Agent (Mines) & Joint President (Works-Unit Head) Chettinad Cement Corpn. Private Ltd, Karikkali Post, Dindigul district-624703, Phone-9788858216. Email-krishnan.v@chettinadcement.com. Date of Appointment - 06.10.2020
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<b>Shri.M.M.Ramesh</b> Manager (Mines), Chettiand Cement Corpn. Private Ltd., CCC Quarry, Guziliamparai (via), Guziliamparai (T.K), Dindigul – 624 703. Phone- 04551-220720. Date of Appointment – 31.03.2023.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<b>Shri.S.Vijayaprakash</b> Mining Engineer, Chettinad Cement Corpn. Private Ltd, CCC Quarry, Guziliamparai (via), Guziliamparai (T.K), Dindigul – 624 703. Phone- 04551-220720. Date of Appointment – 14.08.2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	<b>Shri.M.Karthickkumar</b> Geologist Chettinad Cement Corpn. Private Ltd, CCC Quarry, Guziliamparai (via), Guziliamparai (T.K), Dindigul – 624 703. Phone- 04551-220720. Date of Appointment – 02.07.2020
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/DGL/MP/LST1683 SZ/903, dated: 03.06.2010
26	Date of Approval of Scheme of Mining/Review of Mining Plan/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	ROMP: TN/DGL/LST/ROMP-1530.MDS, Dated:14.11.2018 (Period :2019-20 to 2023-24)  New ROMP : TN/DGL/LST/ROMP-1725.MDS, Dated:14.12.2023 (Period :2024-25 to 2028-29)
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
30	Captive/Non Captive	Captive

### Exploration (2023-24)

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	The area is fully explored under G1 category.
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	10.59 M.T (111)		Nil
1f	General remarks of inspecting officer on geology, exploration etc.	Nil	Nil	Nil

### Development (2023-24)

S.No	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	<b>Karikkali-III Pit:</b> N-1183807 to N-1183964 E-179021 to E-179277 <b>Karikkali-II Pit:</b> N-1184041 to N-1184483 E-179729 to E-180257 <b>Nadaparai Pit:</b> N-1185345 to N-1185507 E-180374 to E-180468 <b>Samy Pit:</b> N-1185386 to N-1185487 E-180059 to E-180093	<b>Karikkali-III Pit:</b> N-1183842 to N-1183894 E-179111 to E-179274  <b>Karikkali-II Pit:</b> N-1184044 to N-1184481 E-179733 to E-180247	Nil
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	<b>II KK Pit :</b> No.of Bench in Ore & OB –6 Bench <b>III KK Pit :</b> No.of Benches in Ore & OB – 7 Benches <b>Samy Pit :</b> No.of Benches in Ore & OB – 2 Benches <b>Nadaparai Pit :</b> No.of Benches in Ore & OB – 3 Benches	<b>II KK Pit :</b> No.of Bench in Ore & OB –6 Bench  <b>III KK Pit :</b> No.of Benches in Ore & OB – 7 Benches	Nil
2c	Stripping ratio or ore to OB ratio	1:1.15	1:0.45	Nil

2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	5,20,590 M <sup>3</sup>	<b>66,211 M<sup>3</sup></b>	<b>Violation letter issued</b>
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil	Nil	Nil

<b>Exploitation (2023-24)</b>				
<b>S.No</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
3a	Number of pits proposed for production	4	2	Nil
3b	Quantity of ROM mineral production proposed	18,74,921 Ts	<b>4,50,510.85 Ts</b>	<b>Violation letter issued</b>
3c	Recovery of salable/usable mineral from ROM production	14,99,937 Ts	3,78,580.85 Ts	-
3d	Quantity of mineral reject generation	3,74,984 Ts	<b>71,930 Ts</b>	<b>Violation letter issued</b>
3e	Grade of mineral reject generation and threshold value declared	<34 CaO	<34 CaO	Nil
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized Method	As per plan
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Not applicable
3j	Provision of drilling & blasting in mineral benches	BH dia-115mm BH depth-10m Spacing -3.5m Burden -2.5m Slurry type of Explosives with ANFO will be used for blasting. Detonators-Delay & Nonel detonator	BH dia-115mm BH depth-10m Spacing -3.5m Burden -2.5m Slurry type of Explosives with ANFO will be used for blasting. Detonators-Delay & Nonel detonator	As per plan

3k	Provision of mining machineries in mineral benches	Type of Machinery	Capacity of each unit	No. of Units	Type of Machinery	Capacity of each unit	No. of Units	As per plan
		(ii) Hydraulic Excavator	1.5CU M	1	(ii) Hydraulic Excavator	1.5CU M	1	
		(i) Hydraulic Excavator - Breaker)	1.2CU M	1	(i) Hydraulic Excavator - Breaker)	1.2CU M	1	
		Front End Loader	1.7 CUM	1	Front End Loader	1.7 CUM	1	
		Tipper	25 Tonnes	08	Tipper	25 Tonnes	08	
		Compressor	450 CFM	1	Compressor	450 CFM	1	
		Water Tanker	8000 Litre	1	Water Tanker	8000 Litre	1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-10 mtr, Width-10mtr		Height-10 mtr, Width-10mtr		Followed as per plan.		
3m	Total area covered under excavation/pits	54.16.0 Ha		54.16.0 Ha		As per plan		
3n	Ore to OB ratio for the pit/mine during the year	1:1.30		1:0.45		Nil		
3o	Total area put in use under different heads at the end of year	82.463 Ha		66.37 Ha		Followed as per plan		
3p	Production of ROM mineral during last five-year period, as applicable	2019-20-10,00,937Ts 2020-21-12,59,663Ts 2021-22-10,00,884 Ts 2022-23 -10,09,813 Ts 2023-24 -14,99,937 Ts		2019-20-3,94,615.5 Ts 2020-21-3,45,893 Ts 2021-22-4,91,453Ts 2022-23 -7,72,873 Ts 2023-24 -3,78,580.85 Ts		Within limit		
3q	General remarks of inspecting officer on method of mining etc.	Nil		Nil		Nil		

### Solid Waste Management-Dumping (2023-24)

S. No	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	1 Dump	1 Dump	Followed as per plan
4b	Location of topsoil, OB & mineral reject dumps	N 2150 to N 2510 & E 2782 to E 3033  N 1811 to N 1981 & E 3235 to E 3524	N 2150 to N 2510 & E 2782 to E 3033  N 1811 to N 1981 & E 3235 to E 3524	Followed as per plan & No topsoil generated
4c	Number of dumps within lease area and outside lease area	Within lease – 1	Within lease – 01	Followed as per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N 2150 to N 2510 & E 2782 to E 3033 & N 1811 to N 1981 & E 3235 to E 3524	N 2150 to N 2510 & E 2782 to E 3033 & N 1811 to N 1981 & E 3235 to E 3524	Followed as per plan.
4e	Number of active & alive dumps	Active = 1	Active = 1	Nil
4f	Number of dead dumps	-	-	
4g	Number of dumps stabilized	-	-	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	-	Garland Drainage provided all along the dump	Nil
4i	Length of Retaining wall or garland drain all along dump	-	Provided	150 mts
4j	Number of settling ponds	-	-	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	Nil

### Solid Waste Management-Backfilling (2023-24)

S.No	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Backfilling proposed	Not Applicable	Nil
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Applicable	Not Applicable	Nil
5d	Total area fully reclaimed & rehabilitated	Not Applicable	Not Applicable	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil	Nil	Nil

### Progressive Mine Closure Plan

S.No.	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.	Yes	Submitted on 17.06.2023	Nil
6b	i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	Afforestation done (ha)	1.80.0Ha	1.80.0 Ha	Nil
6d	No. of saplings planted during the year	1800	1900	Nil
6e	Cumulative no. of plants	-	15800	Nil
6f	Any other specific method of rehabilitation	NA	NA	Nil
6g	Cost incurred on watch & care during the year	Rs.80,000/-	Rs. 95,000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling(LxBxD)	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii)Void filled by waste/tailings	NA	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on the backfilled area	NA	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	NA	NA	Nil
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	NA	NA	Nil
6n	Compliance of Rehabilitation of waste land within lease ii) Area rehabilitated (ha)	NA	NA	Nil
6o	Compliance of Rehabilitation of waste land within lease iii) Method of rehabilitation	NA	NA	Nil
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Done as per proposal	Periodically Monitored
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil	Nil	Nil

### Mineral Conservation (2023-24)

S.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines	NA	NA	Nil
7d	Any beneficiation process at mines	NA	NA	Nil

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil	Nil	Nil
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### Environment (2023-24)

S.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste Dump proposed-1 No.	Waste Dump Provided-1 No.	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1800 Nos	1900 Nos.	Nil
8g	Survival rate	80%	85 %	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling is done	As per plan
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil	Nil

### Compliance of Rule 45

S.No.	Item	Comments	Remarks	
9a	Status of submission of Monthly and Annual returns	Submitted in Time	M.R. Submitted upto Date 06.09.2024. A.R. submitted upto Date 17.06.2024	Nil
S.No.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri.M.M.Ramesh Manager (Mines),  Shri.M.Karthick Kumar – Geologist  Shri.S.Vijayaprakash – Mining Engineer	Shri.M.M.Ramesh Manager (Mines),  Shri.M.Karthick Kumar – Geologist  Shri.S.Vijayaprakash – Mining Engineer	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits- 54.160 Ha Area under dumps- 5.05 Ha Area under Plant buildings, roads and green belt- 66.275 Ha	Area under pits- 54.160 Ha Area under dumps- 5.05 Ha Area under Plant buildings, roads and green belt- 66.275 Ha	Nil



9d	Scrutiny of Annual return on afforestation	1800 Nos	1900 Nos	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	71,930 Ts SiO <sub>2</sub> > 27.0	71,930 Ts SiO <sub>2</sub> > 27.0	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No ROM stock	Not applicable	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs.368.25 /Ton	Rs.368.25 /Ton	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 3,97,34,494	Rs. 3,97,34,494	Nil
9i	Scrutiny of Annual return on mining machineries	Shovel-2, Tippers-08, Loader -1, Air Compressor-1 & Water tanker-1	Shovel-2, Tippers-08, Loader -1, Air Compressor-1 & Water tanker-1	Nil

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-**

Violation observed			Show cause position		
Rule	Issued on	Compliance on	Rule	Issued on	Compliance on
11(1)	09/10/2024				

**Arun Vivek V**  
**Junior Mining Geologist**  
**IBM Chennai**

**24/12/2024**

(Name of inspecting officer with designation and date)