

MCDR INSPECTION REPORT		
	Name of the inspecting officer Designation	Sri. D. Chandra sekhar Reddy, AME
	Date of inspection:	06/12/2024
	Accompanied mine official and designation	Sri. B.Radha Krishana Kanth (Asst.General Manager - Mines) & Sri.selvakumar , Geologist.
	Mine file No.	TN/TCR/LST-94.MDS

General		
S.N.	Particulars	Details
1	Name of the Mine	Kallakudi & Kovandakurichi Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Extent:- Non Forest- 10.54.5 Ha .
3	Mine code	38TMN 14072
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/929/2011
5	Name of the lessee, Address, phone, email and fax number	Kallakudi & Kovandakurichi Ist.mine Dalmia Cement (Bharat) Limited, Dalmiapuram. Lalgudi Taluk. Tiruchirapalli District. Tamil Nadu. t.enkatesan@dalmiacement Telephone No. : 04329 – 235459.
6	Village	Kallakudi
7	Taluka/Mandal	Lalgudi
8	District	Trichy
9	Pin code	621 651
10	State	Tamilnadu
11	Post office	kallakudi
12	Nearest police station	Kallakudi
13	Nearest Railway station	Kallakudi Palanganatham
14	Date of Grant of Mining Lease	19/11/2018
15	Date of Execution	30/11/2019
16	Date of expiry of Mining lease	31/03/2030
17	Date of first Renewal, if applicable and its period & expiry	Not applicable.
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	Not applicable.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri T. Venkatesan, Nominated Owner Dalmia Cement (Bharat) Limited Fagun Mansion, 4 <sup>th</sup> floor, 26, C in C Road, Chennai – 600 105.  044 – 28279933, FAX - 044 – 28276508, <a href="mailto:t.venkatesan@dalmiacement.com">t.venkatesan@dalmiacement.com</a> Date of appointment: 01.11.2007

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri.K.Vinayagamurthi Executive Director Mob: 9750963784 Email: k.vinayagamurthi@dalmiacement.com Date of Appointment – 06.01.2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	B.Radha Krishna Kanth Dalmia Cement (Bharat) Limited, Dalmiapuram, 04329 – 235099, <a href="mailto:b.radhakrishnakanth@dalmiacement.com">b.radhakrishnakanth@dalmiacement.com</a> Fax 04329-235111 Date of appointment :04.01.2016
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	B.Radha Krishna Kanth Qualification:: BE Mining Dalmia Cement (Bharat) Limited, Dalmiapuram, 04329 – 235099, <a href="mailto:b.radhakrishnakanth@dalmiacement.com">b.radhakrishnakanth@dalmiacement.com</a> Fax 04329-235111 Date of appointment :04.01.2016
24	Whether <b>Geologist</b> and <del>Mining Engineer</del> appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 &44.	S. Selvakumar - Geologist Qualification: M.Sc ( Applied Geology) DOA:
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	TN/TCR/MP/LST-1483/SZ, DATED 23.07.2003 Period: 01.04.2003 to 31.03.2008
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.TN/TCR/MP/LST-1483/SZ, DATED 06.02.2004 Period: 01.04.2004 to 31.03.2008 2.TN/TCR/LST/MS-645/SZ, DATED 18.03.2008 Period: 01.04.2008 to 31.03.2013 3.TN/TCR/LST/MS-1047.MDS, DATED 02.04.2014 Period: 01.04.2013 to 31.03.2018 4.TN/TCR/LST/ROMP-1443.MDS, DATED 13.11.2017 Period: 01.04.2018 to 31.03.2023 5.TN/TCR/LST/ROMP-1701-.MDS dated 07.12.2022 Period: 01.04.2023 to 31.03.2028
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 Mechanised
30	Captive/Non Captive	Captive

## II - OBSERVATION AND COMMENT OF INSPECTING OFFICER

### Exploration:

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Nil	No backlog.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	Entire area already explored upto G1 level
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	NA	Entire area was explored to G1 category
1e	Balance reserves as on 01.04.2024 (111+121 Category)	--	Limestone(111 cat)-3,42,714 tonnes Marl - 2,18,000 tonnes	NIL
1f	General comments of inspecting officer on geology, exploration etc.	—	—	Sufficient exploration done.

### Development:

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	During 2023-24 no proposal for development.	No development carried out.	NIL
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal	NIL	NIL
2c	Stripping ratio or ore to OB ratio	1:0	1:0	NIL
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal to generate top Soil .	No Top Soil generated.	NIL
2e	Quantity of overburden generation in m <sup>3</sup>	No Overburden available	No Overburden generated.	NIL
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	---	---	No OB/Topsoil removed.

**Exploitation :**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	As proposed
3b	Quantity of ROM mineral production proposed	115219 tonnes	86400 tonnes	Violation of Rule 11(1) pointed out.
3c	Recovery of salable/usable mineral from ROM production	ROM is suitable for cement grade	100 % consumed.	Entire ROM consumed.
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral reject generation.
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	NA
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Non-conventional method .
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 method of mining . Nodrilling&blasting.	As per proposal.	Non-conventional mining proposed & carried out.
3k	Provision of mining machineries in mineral benches	1) Hydraulic Excavator Bucket capacity 2.6. Cu.m – 1 Nos 2) Atlas Copco Breaker HB 5800- 1 Nos 3) Hydraulic Excavator Bucket capacity 2.1. Cu.m – 1 No 4) Komatsu D50 – 1 No 5) KSB Centrifugal	Machinery deployed as per proposal.	NIL.

			Pump 25 HP – 1 Nos 6) Tippers 110 HP – 3 Nos		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Height – 7.5m, Width – 8m	Height – 7.5m, Width – 8m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits		4.28 Ha	4.28 Ha	Within UPL
3n	Ore to OB ratio for the pit/mine during the year		1:0	1 : 0	No waste generation
3o	Total area put in use under different heads at the end of year		Area under Mining – 4.28 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt - 6.045 Ha	Area under Mining – 4.28 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt - 6.045 Ha	Within the proposed limits
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	130250	81400	Violation of Rule 11(1) pointed out. Mine is under Temp. discontinuance from 25/10/2023
		2020-21	110408	82000	
		2021-22	90170	36700	
		2022-23	75911	74600	
		2023-24	115219	86400	
3q	General Remarks of inspecting officer on method of mining etc.		—	—	Mine is under Temp. discontinuance from 25/10/2023

#### Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	No dumping done.	Nil
4b	Location of topsoil, OB & mineral reject dumps	No proposal	NIL	NIL
4c	Number of dumps within lease area and outside lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL
4e	Number of active & alive dumps	NIL	NIL	NIL
4f	Number of dead dumps	NIL	NIL	NIL

4g	Number of dumps stabilized	NIL	NIL	No Dump stabilised
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Garland Drain maintained	Existing Garland Drain maintained
4i	Length of Retaining wall or garland drain all along dump	Nil	150 m garland drain maintained.	NIL
4j	Number of settling ponds	NIL	NIL	NIL.
4k	Specific comments of inspecting officer on waste dump management	—	—	No proposal of dumping during 2023-24.

#### **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 for backfilling during 2023-24	No backfilling done.	NIL
5b	Area under backfilling of mined out area	No proposal.	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	NIL	NIL
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	NIL
5e	General Remarks of inspecting officer on backfilling, reclamation etc.,	—	—	No backfilling done. During 2023-2.

#### **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.	Yes	Yes	Submitted in time
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	Nil
6c	Afforestation done (ha)	0.02	plantation along the mine boundary .	NIL.
6d	No. of saplings planted during the year	200	200	Plantation carried out

6e	Cumulative no. of plants	-	4200	Inside and outside the lease area
6f	Any other specific method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch & care during the year	Not proposed	575970	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Void filled (L x W x D )	No backfilling proposed	No Backfilling done	Mining is in progress. No area is completely mined out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids 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	No proposal.	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	No waste land is within lease area
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)	Yes	Carried out quarterly	All parameters within statutory limits
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	—	—	Proposed production not achieved due to low offtake of cement plant.

**Mineral Conservation :**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone mineral production proposed as 115219.5 tonnes during 2023-24. No Mineral Sorting. The	86400 tonnes of Limestone mineral produced. Entire ROM transported to Cement plant.	Violation of Rule 11(1) pointed out..

		total ROM used for Production		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	There is no grade wise separation	Entire ROM consumed.	NIL
7c	Different grade of mineral sorted out at mines	The Limestone grade varies from 35%CaO.	The Limestone grade varies from 35%CaO..	NIL
7d	Any beneficiation process at mines	No beneficiation proposed at mines.	NIL	NIL
7e	General Remarks of inspecting officer on Mineral conservation & beneficiation issues	—	—	Mineral conservation is satisfactory.

**Environment :**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal to remove Topsoil during 2023-24.	No Topsoil generated.	NIL
8b	Concurrent use or storage of topsoil	No proposal.	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for dumping during 2023-24.	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	NIL	Mining operation continuing.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc..)	No backfilling proposed.	No backfilling done.	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	It is planned to plant 200 saplings for the current year 2023-24	Plantation done as per proposal both within and outside ML area.	NIL
8g	Survival rate	80%	80 %	NIL
8h	Water sprinkling on roads to control airborne dust	proposed	Carried Out	NIL
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory.

**Compliance of Rule 45**

S.N.	Item	Proposal	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted for the year 2023-24		Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	B.Radhakrishnakanth – Manager & Mining engineer S.Selvakumar-Geologist.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Area under current workings: 4.28 Hc. Infrastructure: 0.22Hc. Others : 6.045 Hc.	NIL.
9d	Scrutiny of Annual return on afforestation	Details given	200	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Details given	No mineral reject generation.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	86400 tonnes	Violation of rule 11(1) pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Details given	Rs. 332.24	Reasonable.
9h	Scrutiny of Annual return on fixed assets	Provided in Annual Return	Rs.254145669	Combinedly given.
9i	Scrutiny of Annual return on mining machineries Name of the Machinery Capacity	Details given	Back hoe - 2 Tipper-3 Pump-1	Non conventioanal method adopted.
Details of violations observed during current inspection and compliance position of earlier violation pointed out:-				
violation observed		show cause position		
Violation of Rule 11(1) pointed out vide letter no.TN/ALR/LST-94.MDS dated: 30/12/2024.				

D.Chandrasekhar Reddy

Assistant Mining Engineer.