

INDIAN BUREAU OF MINES  
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-5(a).MDS	Mine code - 38TMN24002
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Name of the inspecting officer & designation	Matiul Islam Assistant Controller of Mines Indian Bureau of Mines - Chennai
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Date of inspection:	04.09.2024
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Accompanied mine official and designation	M R Raja Ranjith Singh - General Manager TC Gopi Rajesh Kumar - Sr. Manager
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PART-I: General Information

S.N.	Particulars	Details
1	Name of the Mine	Aminabad & Khairulabad Limestone Mines ML-1
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest - 95.34.5 H.a Forest - Nil Total - 95.34.5 H.a
3	Mine code	38TMN24002
4	IBM Registration Number under rule 45 of MCDR, 1988	929/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Dalmia Cement (B) Ltd, Dalmiapuram-621651, Trichy District.
6	Village	Aminabad & Khairulabad
7	Taluka/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621704
10	State	Tamilnadu
11	Post office	Astinapuram
12	Nearest police station	Ariyalur
13	Nearest Railway station	Ariyalur
14	Date of Grant of Mining Lease	20.08.2018
15	Date of Execution	11.10.2019
16	Date of opening of Mine	03.10.1970
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	Nil
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	T. Venkatesan Nominated Mine Owner M/s. Dalmia Cement (Bharat) Limited Fagun Mansion, 26, Ethiraj Salai, Egmore, Chennai - 600008. Phone - 044 28279933 Fax - 044 28276508 t.venkatesan@dalmiacement.com Date of Appointment - 09.08.2012

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: 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	Name: T.C.Gopi Rajesh kumar Mob: 9865170056 Email: tc.gopirajeskumar@dalmiacement.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name: A.Ananthakrishnan Mob: 9600919351 Email: a.ananthakrishnan @dalmiacement.com Date of Appointment: 30.07.2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes. Ganesan G (Geologist) and A.Ananthakrishnan (Mining engineer) appointed as per 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.	TN/PBR/MP/Lst-1170/SZ dated: 20/04/2000 01.04.1999 to 31/03/2003
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	TN/PBR/MS/-192/SZ dated: 31/12/2003 01.04.2003 to 31.03.2008 TN/PBR/LST/MS/463/SZ dated: 18.03.2008 01.04.2008 to 31.03.2013 TN/ALR/LST/MS-799-SZ/957 dated: 08.07.2013 01.04.2013 to 31.03.2018 TN/ALR/LST/ROMP-1444.MDS dated: 10.11.2017 01.04.2018 to 31.03.2023 TN/ALR/LST/ROMP - 1700.MDS dated: 15.12.2022 01.04.2023 to 31.03.2028
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)	Fully Mechanised
30	Captive/Non Captive	Captive

PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER

Exploration (2023-2024)

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.	G-1	G-1	Entire potentially mineralized area already fully explored upto G-1 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	Nil	Nil
1e	Balance reserves as on 01.04.2024(111+121 Category)	Proposed Mineral Reserve (111) - 58,13,227 Tons	Proved Mineral Reserve (111) - 62,63,940 Tons	More reserves remaining than proposed due to less depletion over the past.
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the mine were found satisfactory.

Development (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Nil	Along the western corner of the lease	Violation pointed for deviation from development proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed	Separate benches maintained	As proposed
2c	Stripping ratio or ore to OB ratio	1:0	1: 0.04	Violation pointed for deviation from development proposal.
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	Nil
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	41,086 cu.m.	Violation pointed for deviation from development proposal.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	-	-	Violation pointed for deviation from development proposal.

Exploitation(2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	As proposed
3b	Quantity of ROM mineral production proposed	14,70,635 MT	10,99,900 MT	Violation pointed for deviation from Excavation proposal.
3c	Recovery of salable/usable mineral	75%	100%	Violation pointed for deviation

	from ROM production			from Excavation proposal.
3d	Quantity of mineral reject generation	370635 MT	0	Violation pointed for deviation from Excavation proposal.
3e	Grade of mineral reject generation and threshold value declared	> 6% of Fe in limestone	> 6% of Fe in limestone	As Proposed
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	As proposed
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	For Drilling ICM260 drill machine is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	For Drilling ICM260 drill machine is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	As proposed
3k	Provision of mining machineries in mineral benches	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurus tippers are used	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurus tippers are used	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Ht - 6 m Width - 9 m	Ht - 6m Width - 10 m	As proposed
3m	Total area covered under excavation/pits	63.56 H.a	64.97 H.a	Within limit
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0.4	Violation pointed for deviation from development proposal
3o	Total area put in use under different heads at the end of year	83.59 H.a	81.74 H.a	Within limit
3p	Production of ROM mineral during last Fiveyear period, as applicable (2023-24)	2018-19:1098874 2019-20: 1099581 2020-21: 1096045 2021-22: 1098184 2022-23: 1099948 2023-24: 1100000	2018-19: 1096000 2019-20: 1079100 2020-21: 1085200 2021-22: 1096000 2022-23: 1099716 2023-24: 1099900	Within limits
3q	General Remarks of inspecting officer on method of mining etc.	-	-	Violations pointed for deviation from excavation proposals.

**Solid Waste Management-Dumping (2023-2024)**

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of rejects proposed	Separate dumping of waste done	Nil
4b	Location of topsoil, OB & mineral reject dumps	N 5600-5700 E 3000-3300	N 5600-5700 E 3000-3300	As per plan
4c	Number of dumps within lease area and outside lease area	1 (within lease area)	1 (within lease area)	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	West part of the lease	West part of the lease	As per plan
4e	Number of active & alive dumps	1	1	As per plan
4f	Number of dead dumps	1	1	As per plan
4g	Number of dumps stabilised	1	1	As per plan
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and garland drain proposed	Retaining wall and garland drain Provided	As per plan
4i	Length of Retaining wall or garland drain all along dump	Retaining wall - 300 (mtr) Garland Drain - 500(Mtr.)	Retaining wall - 300 (mtr) Garland Drain - 500(Mtr.)	Earthen bund provided as Retaining wall
4j	Number of settling ponds	0	0	As per plan
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

**Solid Waste Management - Back filling(2023-2024)**

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting back filling	NA	NA	No waste material is available for backfilling
5b	Area under back filling of mined out area	NA	NA	No waste material is available for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	No topsoil is available for backfilling
5d	Total area fully reclaimed & rehabilitated	NA	NA	No waste material is available for backfilling
5e	General Remarks of inspecting officer on back filling, reclamation etc	-	-	No backfilling or reclamation was proposed or carried out.

**Progressive Mine Closure Plan (2023-2024)**

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	YES	Submitted	Along with AR
6b	(i) Area available for rehabilitation (ha)	Nil	Nil	Nil
6c	(ii) Afforestation done (ha)	0.15	0.30	As proposed
6d	(iii) No. of saplings planted during the year	150	350	As proposed
6e	(iv) Cumulative no. of plants	7100 Saplings Proposed	8268 saplings planted till date	Both inside & Out side the lease area
6f	(v) Any other specific method of rehabilitation	Nil	Nil	Nil

6g	(vi) Cost incurred on watch & care during the year	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling Void filled by waste/tailings	No backfilling proposed	No backfilling carried out	Nil
6j	Compliance on reclamation and rehabilitation by backfilling Afforestation on the backfilled area	Nil	Nil	Nil
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)	Nil	Periodic monitoring carried out	All parameters within norms
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	-	-	PMCP Compliance & progressive closure operations were found satisfactory.

#### Mineral Conservation (2023-2024)

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 (2023-2024)

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil is present	No topsoil is present	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for rejects proposed	Separate dump for waste maintained	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and	No proposal	Nil	Nil

	rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	150 nos. saplings proposed for the year	350 nos. saplings planted during the year	8,268 nos saplings planted cumulatively.
8g	Survival rate	85%	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Provided	Provided	Nil
8i	General Remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area was found satisfactory.

#### Compliance of Rule 45 (2023-2024)

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted: Annual Return: 29.06.2024	PMCP Return: 28.06.2024 Monthly Return(July'24) :05.08.2024	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1.Mining Engineer – C.P Hariprasad 2.Geologist – Bishampar Singh	1. Mining Engineer – A. Ananthakrishnan 2. Geologist – G.Ganesan	Notice of appointment was sent on 1.Mining Engineer- A. Ananthakrishnan - 30.07.2024 2.Geologist - G. Ganesan – 02.09.2024
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already Exploited & (i)Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings -64.97 ha (iii) Reclaimed / Rehabilitated - 0 ha (iv) Used for Waste Disposal – 15.39 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 1.38 ha (vi) Other Purpose (Green belt, Road, area, non Mineral Bearing Land for future dumps, Afforestation, Infrastructure) – 13.605 ha	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area during FY 23 - 24  350  Survival Rate - 80%	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject Generated - 0 tons	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Cement Grade Limestone Closing Stock – 2,523.00 tonnes	Given in Part VI, Sl 3(ii)	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex.Mine Price - Rs. 244.93 Cost of production - Rs.. 244.93	Given in Part VI, Sl 3(ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 8,56,15,312/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	BACK HOE 2.400 CUM 1 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast WHEEL LOADER 1.700 CUM 1 Non Electrical Opencast AIR COMPRESSOR 210.000 CUM/MN 1 Non Electrical Opencast TIPPER 18.000 CUM 8 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 2 Non Electrical Opencast OTHERS (NON-ELEC.) 2.200 1 Non Electrical Opencast DOZER 165.000 HP 1 Non Electrical Opencast PUMPS (ELEC.) 2500.000 L/MN 1 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 No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	30/09/2024				

Date:

(Matiul Islam)

Indian Bureau of Mines