

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST.94-MDS

**Mine code :** 38TMN14072

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : M.R.Raja Ranjith Singh -Deputy General Manager, B R  
Official with  
Designation
- (iv) Date of Inspection : 24/11/2020
- (v) Prev.inspection date : 29/10/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KALLAKUDI 10.54 HA**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUCHIRAPALLI
- Village : KALLAKUDI
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329235111
- E-mail : t.venkatesan@dalmiacement.()
- Phone : 04329235459
- (f) Police Station :
- (g) First opening date : 06/12/2001
- (h) Weekly day of rest : SUN
2. Address for : DALMIAPURAM, TIRUCHY-621651  
correspondance
3. (a) Lease Number : TMN0104
- (b) Lease area : 10.55
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : DALMIA CEMENT (B) LTD.  
M/S. DALMIA CEMENT (B) LTD  
DALMIAPURAM-621651 TRICHY.  
ARIYALUR TAMIL NADU  
Phone:04329-35123.  
FAX :

Owner : DALMIA CEMENT (B) LTD.  
DALMIAPURAM TRICHT-621651.  
TIRUCHIRAPALLI TAMIL NADU  
Phone:  
FAX :

Agent : R.A.KRISHNAKUMAR  
M/s Dalmia Cement(B) ltd.,  
Dalmiapu Trichy, Kallakudi  
ARIYALUR TAMIL NADU  
Phone: 04329-235123  
FAX : 04329-235111

## Manager

Name : N.KARTHIKEYAN  
Qualification : M.Sc GEOLOGY  
Appointment/ : 04/01/2016  
Termination date

## Manager

Name : B.RADHAKRISHNA KANTH  
Qualification : B.E MINING  
Appointment/ : 04/01/2016  
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	02/04/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	10/11/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Entire area fully explored
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Entire area fully explored
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	Nil
1e	Balance reserve as on 01/04/20	-	Category Limestone Marl Proved Mineral Reserve (111) 303066 266575 Feasible Mineral Resources (211) 1159729 1461073 Pre-Feasible Mineral Resources (221) 1365768 1578706 Total 2828563 3306354	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The deposit area is devoid of any overburden and limestone is exposed all over the area. As such no development is proposed.	No development is carried out.	As per proposal.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	Top Soil/OB do not exist
2c	Stripping ratio or ore to OB ratio	1:0	1:0	Nil
2d	Quantity of topsoil generation in m3	NA	NA	No top soil
2e	Quantity of overburden generation in m3	NA	NA	No OB
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	As proposed
3b	Quantity of ROM mineral production proposed	1,30,250 te	81,400 te	Less production due to less off-take from cement plant
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM is cement grade and is utilised by blending with limestone from other captive mines.
3d	Quantity of mineral reject generation	NA	NA	No Mineral Reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	NA	NA	No Sub-grade generation

3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Non-conventional mining with rock-breakers carried out without drilling & blasting
3k	Provision of mining machineries in mineral benches	1) L&T CK 300 Model Hydraulic Excavator Bucket capacity 2.6. Cu.m - 1 Nos 2) Atlas Copco Breaker HB 5800- 1 Nos 3) L&T PC 300 Model Hydraulic Excavator Bucket capacity 2.1. Cu.m - 1 No 4) Komatsu D50 - 1 No 5) KSB Centripugal Pump 50 HP - 1 Nos 6) Contractor' Trucks Tat Benz ( Each 110 HP) - 3 Nos	1) L&T CK 300 Model Hydraulic Excavator Bucket capacity 2.6. Cu.m - 1 Nos 2) Atlas Copco Breaker HB 5800- 1 Nos 3) L&T PC 300 Model Hydraulic Excavator Bucket capacity 2.1. Cu.m - 1 No 4) Komatsu D50 - 1 No 5) KSB Centripugal Pump 50 HP - 1 Nos 6) Contractor' Trucks Tat Benz ( Each 110 HP) - 3 Nos	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 m	7.5 m	Suitable

3m	Total area covered under excavation/pits	4.364 ha (by the end of the plan period)	4.28 ha		Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0		Nil
3o	Total area put in use under different heads at the end of year	Area under Mining - 4.364 Ha Plant,Buildings - 0.220 Ha Roads - 0.14 Ha Green Belt - 4.180 Ha Others - 1.641 Ha (by the end of the plan period)	Area under Mining - 4.280 Ha Plant,Buildings - 0.080 Ha Roads - 0.14 Ha Green Belt - 4.404 Ha Others - 1.641 Ha	- - - - - -	Within limit
3p	Production of ROM mineral during the last five year period as applicable	Year Proposed 2015-16 102140 2016-17 105854 2017-18 105680 2018-19 160258 2019-20 130250	Year Actuals 2015-16 110983 2016-17 115994 2017-18 105300 2018-19 51000 2019-20 81400		Within limits. Less production due to less off-take by cement plant.
3q	General remarks of inspecting officers on method of mining etc.	-	-		Satisfactory

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	No Top Soil/OB/Rejects
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No Top Soil/OB/Rejects
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	No Top Soil/OB/Rejects

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No Top Soil/OB/Rejects
4e	Number of active and alive dumps.	Nil	Nil	No Top Soil/OB/Rejects
4f	Number of dead dumps.	NA	NA	No Top Soil/OB/Rejects
4g	Number of dumps established.	NA	NA	No Top Soil/OB/Rejects
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	No Top Soil/OB/Rejects
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	No Top Soil/OB/Rejects
4j	Number of settling ponds	Nil	Nil	Dewatering done through nallah
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	Mineral not exhausted yet
5b	Area under backfilling of mined out area	No backfilling proposed	No backfilling carried out	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No occurrence of top soil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Mineral not exhausted yet

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	Submitted on 01.07.2020
6b	Area available for rehabilitation (ha) .	Nil	Nil	Mineral not exhausted yet.
6c	afforestation done (ha).	0.22 Ha	Nil	Violation issued for inadequate afforestation
6d	No. of saplings planted during the year	200 nos	Nil	Violation issued for inadequate afforestation
6e	Cumulative no .of plants	-	2,980 saplings planted till date	Plantation carried out inside as well as outside the lease area
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA	No backfilling proposed as mineral not exhausted yet
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Nil



6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on 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	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to be carried out every quarter	M/s.ITC labs, Chennai is engaged for monitoring Environmental data on a Quarterly basis	Complied.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Satisfactory

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	No sorting, entire ROM is utilised.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	No sorting
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 and beneficiation issues	-	-	Satisfactory

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	No Top Soil
8b	Concurrent use or storage of topsoil	NA	NA	No top soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	No OB/Waste/Rejects/Fines
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No OB/Waste/Rejects/Fines

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Mineral not exhausted yet
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 nos of saplings proposed to be planted during the year.	2980 saplings planted till date. No sapling planted during the year.	Violation issued for inadequate afforestation during the year.
8g	Survival rate	90%	NA	No plantation carried out during the year. Violation issued.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed using water tanker	12 KL water tanker used for water sprinkling	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation issued for inadequate afforestation.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager B. Radha Krishna Kanth Mining Engineer in charge B. Radha Krishna Kanth Geologist in charge N.Karthikeyan	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	Under forest forest (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.280 4.280 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.220 0.220 (vi) Other Purpose (road & afforestation) 0.000 6.045 6.045 (vii) Work done under progressive mine	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 4. Mining Operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 0 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 0.00	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 81400.000 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-mine Price / Cost of Production - Rs 222.16/-	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Assets - Rs 27,94,48,015/-	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast BACK HOE 2.700 CUM 1 Non Electrical Opencast PUMPS (ELEC.) 300.000 L/MN 1 Electrical Opencast TIPPER 14.000 CUM 3 Non Electrical Opencast	Nil

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	12/01/2021	MCDR17	Rule 11(1)	12/01/2021

**Date :**

**(Matiul Islam)**

Indian Bureau of Mines