

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-93-MDS

**Mine code :** 38TMN14074

- (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 - DGM Mines, V Aravinthan - Ma  
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 & KOVANDAKURICH**
- (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 & KOVANDAK
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329 - 235459.
- E-mail : ra.krishnakumar@dalmiaceme
- Phone : 04329-235111
- (f) Police Station : Kallakudi
- (g) First opening date : 05/10/1939
- (h) Weekly day of rest : SUN
2. Address for : Dalmia Cement (Bharat) Limited,  
correspondance
3. (a) Lease Number :
- (b) Lease area :
- (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 : T. VENKATESAN  
Dy. Managing Director  
Dalmia Cement (B) Ltd  
CHENNAI CITY TAMIL NADU  
Phone: 044-28279933, 9  
FAX : 044-28276508

Agent : R. A. KRISHNAKUMAR  
Executive Director Dalmia  
cements(B) Ltd.,  
Dalmiapuram TIRUCHIRAPALLI  
TAMIL NADU  
Phone: 04329-294632  
FAX : 04329-235111

## Mining Engineer

Name : M R.RAJARANJITH SING,Full Time  
Qualification : B.E Mining  
Appointment/ : 11/03/2013  
Termination date

## Geologist

Name : N.Karthikeyan,Full Time  
Qualification : MSc., (Applied Geology)  
Appointment/ : 03/12/2013  
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04/07/2013
Plan/Scheme of Mining		MP modif under MCR 1960	08/07/2015
		MP modif under 17(3) MCR 2016	28/03/2018
		MP review under 17(1) MCR 2016	11/12/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Lease area fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Lease area fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	Nil	Nil
1e	Balance reserve as on 01/04/20	-	Category Limestone Reserves Marl Reserves Proved Mineral Reserve (111) 3945869 1643197 Feasible Mineral Resources (211) 0 0 Pre-Fesible Mineral Resources (221) 7361909 1068758	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.	Working faces of existing benches advanced laterally and vertically for mineral exploitation.	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	No occurrence of Top Soil/OB

2c	Stripping ratio or ore to OB ratio	1:0	1:0	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	No Top Soil
2e	Quantity of overburden generation in m3	Nil	Nil	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	2	2	As proposed
3b	Quantity of ROM mineral production proposed	7,49,831 te	7,38,000 te	Within limit
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	As proposed
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	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	Not proposed	Not carried out	Non-conventional mining with rock-breakers practiced
3k	Provision of mining machineries in mineral benches	1 Rock Breakers Atlas Copco Braeker HB5800 2 640 2 Hydraulic Excavator L&T PC-300 Model Hydraulic Excavator 2.1 cum BC 1 240 3 Dozer Komatsu D50 1 165 4 Transport Vehicles Contractor' Trucks Tat Benz 10 1100	1 Rock Breakers 6 tons breaker mounted on 60 ton class hydraulic excavator 3 320 2 Hydraulic Excavator 30 / 38 MT class backhoe excavator of 2.0m3 bucket capacity. 3 240 20 MT class backhoe excavator of 0.9m3 bucket capacity. 1 160 3 Dozer 1 165 4 Transport Vehicles Contractor' Trucks Tat Ben & Ashok Leyland 11 1100	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 m high benches proposed	7.5 m high benches maintained	Suitable
3m	Total area covered under excavation/pits	10.988 Ha	11.040 ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/Waste/Reject/Top Soil generated

3o	Total area put in use under different heads at the end of year	Area under Mining - 10.988 Ha Roads 0.382 Ha Green Belt 1.300 Ha Others 0.625 Ha	Area under Mining - 11.040 Ha Roads - 0.382 Ha Green Belt - 1.248 Ha Others - 0.625 Ha	-	Within limit
3p	Production of ROM mineral during the last five year period as applicable	Year Proposed 2015-16 747128 2016-17 749991 2017-18 746621 2018-19 749993 2019-20 749831	Year Actuals 2015-16 35300 2016-17 46300 2017-18 107900 2018-19 745300 2019-20 738000		Within limit
3q	General remarks of inspecting officers on method of mining etc.	-	-		Satisfactory

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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/Mineral Rejects
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No Top Soil/OB/Mineral Rejects
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	No Top Soil/OB/Mineral Rejects
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No Top Soil/OB/Mineral Rejects
4e	Number of active and alive dumps.	Nil	Nil	No Top Soil/OB/Mineral Rejects
4f	Number of dead dumps.	NA	NA	No Top Soil/OB/Mineral Rejects

4g	Number of dumps established.	NA	NA	No Top Soil/OB/Mineral Rejects
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	No Top Soil/OB/Mineral Rejects
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	No Top Soil/OB/Mineral Rejects
4j	Number of settling ponds	NA	NA	Dewatering done through nallah
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	Mineral not yet exhausted
5b	Area under backfilling of mined out area	No backfilling proposed	No backfilling carried	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	No reclamation/r ehabilitation proposed for the year	No reclamation/rehabilitat ion carried during the year	Mineral not yet exhausted
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory

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Progressive Mine Clousre Plan:

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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	Mining is in progress
6c	afforestation done (ha).	0.2 ha	0.1 ha	Violation issued for inadequate afforestation
6d	No. of saplings planted during the year	300 nos	100 nos	Violation issued for inadequate afforestation
6e	Cumulative no .of plants	-	1,998 saplings planted till date	Plantation done outside 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	No backfilling proposed	No Backfilling done	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 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)	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 and buffer zone)	Proposed to be carried out quarterly	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:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Total ROM is transported to cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil

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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

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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

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	300 saplings proposed to be planted during the year 2019-20	100 saplings planted during the year 2019-20. Total 1,998 saplings planted outside the lease till date.	Violation issued for inadequate afforestation during the year.
8g	Survival rate	90%	90%	As proposed
8h	Water sprinkling on roads to control airborne dust	Yes	Carried out	12KL water tanker deployed for water sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Satisfactory

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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 Shri M.R.Raja Ranjith Singh Mining Engineer in charge Shri M.R.Raja Ranjith Singh Geologist in charge Shri 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 Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 11.040 11.040 (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 0.382 0.382 (vi) Other Purpose (Green belt & Safety barrier) 0.000 1.873 1.873 (vii) Work done under progressi	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 100 (b) Outside lease area 0 (ii) Species 90 (iii) Survival rate in percentage 90.00	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	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 738000.000 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 2.700 CUM 3 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast TIPPER 14.000 CUM 11 Non Electrical Opencast BACK HOE 0.900 CUM 1 Non Electrical Opencast DOZER 165.000 HP 1 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