

**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 : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr S Makesh - Sr General Manager (Mines), Mr MR. Raja  
Official with  
Designation
- (iv) Date of Inspection : 28/02/2019
- (v) Prev.inspection date : 06/03/2018

**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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	lesae has fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Lease area fully explored in G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Fully explored	Fully explored
1e	Balance reserve as on 01/04/20	-----	Limestone Maral 111-4047305 489716 211-7383774 1385431 221-1448314 748493	As on 01.04.2018
1f	General remarks of inspecting officers on geology, exploration etc	---	---	Geology, exploration is satisfactory

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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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. The working faces of existing benches shall advance further towards lateral as well as vertical direction to exploit the limestone at its optimal.	As per the proposal mining activities are carried out	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Not applicable	Overburden does not occur.
2c	Stripping ratio or ore to OB ratio	NA	NA	NIL
2d	Quantity of topsoil generation in m3	NA	NA	NIL
2e	Quantity of overburden generation in m3	NA	NA	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	--	development of pit is found satisfactory

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits	2 pits operated	As per the proposal

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3b	Quantity of ROM mineral production proposed	746621 tonnes	107900 tonnes	Consent from TNPCB was obtained only in Feb 2018,Hence the production is lesss
3c	Recovery of sailable/usable mineral from ROM production	ROM is suitable for cement grade.	Total ROM is consumed	NIL
3d	Quantity of mineral reject generation	NA	NA	Total ROM is suitable for cement grade.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Total ROM is suitable for cement grade.
3f	Quantity of sub grade mineral generation.	NA	NA	Total ROM is suitable for cement grade.
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	No segregating from ROM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	No, not requird
3j	Provision of drilling and blasting in mineral benches	NA	NA	Nodrilling & blasting in mineral benches,the rock Breaker used.

3k	Provision of mining machineries in mineral benches	1) L&T CK 300 Model Hydraulic Excavator Bucket capacity 2.6. Cu.m - 2 Nos 2) Atlas Copco Breaker HB 5800- 2 Nos 3) L&T PC 300 Model Hydraulic Excavator Bucket capacity 2.1. Cu.m - 1 Nos 4) Komatsu D50 - 1 No 5) KSB Centripugal Pump 50 HP - 1 Nos 6) Contractor' Trucks Tat Benz ( Each 110 HP) - 10 Nos	Machineries as proposed is deployed for mining operation	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 meters	As proposed the height of the bench is maintained	NIL
3m	Total area covered under excavation/pits	Size of Pit 2- 475 × 188 × 21.5m Size of Pit 4- 237 × 87 × 37.5 Total area 10.9919	10.988 ha is covered under excavation	as per the proposal
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA	Overburden does not exist

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 1.3 Ha Others 0.625 Ha	Area under Mining - 10.988 Ha Roads - 0.382 Ha Green Belt - 1.3 Ha Others - 0.625 Ha	-	as per the proposal
3p	Production of ROM mineral during the last five year period as applicable	2013-14 748773 2014-15 748322 2015-16 747128 2016-17 749991 2017-18 746621	2013-14 -4780 2014-15 -48695 2015-16 -35300 2016-17 -46300 2017-18 -107900		
3q	General remarks of inspecting officers on method of mining etc.	--	--		method of mining is found satisfactory

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not applicable	Not applicable	No overburden or top soil
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No overburden or top soil
4c	Number of dumps within lease area and outside of lease area	NA	NA	No overburden or top soil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No overburden or top soil
4e	Number of active and alive dumps.	NA	NA	No overburden or top soil
4f	Number of dead dumps.	NA	NA	Not applicable
4g	Number of dumps established.	NA	NA	NA

4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	No dump
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	NIL
4j	Number of settling ponds	Dewatering done through Nallah	as per the proposal	settling ponds done through nallah
4k	Specific comments of inspecting officer on waste dump management	--	---	There is no waste dump all the ROM has used for cement manufacturin.

#### 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	Not at the stage
5b	Area under backfilling of mined out area	Na	Na	no proposal for backfilling and there is no waste generation in the mine.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No topsoil occurred
5d	Total area fully reclaimed and rehabilitated	NA	NA	Not at the stage
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	---	No backfilling

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	Submitted	Submitted the PMCP every year. For the year submitted on 25.02.2019
6b	Area available for rehabilitation (ha) .	NA	NA	NIL
6c	afforestation done (ha).	NIL	Na	no proposal for afforestation in mined out bench
6d	No. of saplings planted during the year	NA	NA	No saplings planted during the year proposed in benches
6e	Cumulative no .of plants	---	1748 saplings planted till date	Outside the lease area
6f	Any other method of rehabilitation	NIL	NIL	Backfilling and plantation in the backfilled area
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 reclamation and rehabilitation by backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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	No waste land is within lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	No waste land is within lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	No waste land is within lease area
6p	Compliance of environmental monitoring (core zone and buffer zone)	To be carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	No adwers report
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	---	PMCP compliance & progressive closure operations is found 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	NA	NA	The total ROM is used
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	The total ROM is used

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7c	Different grade of mineral sorted out at mines.	NA	NA	The total ROM is used
7d	Any beneficiation process at mines	NA	NA	The total ROM is used
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	--	The Total ROM is used for cement manufacturing

## 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 generation of topsiol and waste
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No generation of topsiol and waste
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	No generation of topsiol and waste

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 saplings for the current year 2017-18	130 saplings planted so far.	so	Plantation under progress.
8g	Survival rate	90%	90%		NIL
8h	Water sprinkling on roads to control airborne dust	Using water tanker	12KL water tanker is used for water sprinkling		found water tanker is used for water sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	---		aesthetic beauty in and around mines area is found satisfactory

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yas	Submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	The information was found representative as per the form submitio to office.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The landuse pattern furnished in appropriate column/ table	The information was found correct	NIL
9d	Scrutiny of Annual return on afforestation	The information was furnished in appropriate column/ table	The information was found correct	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The information was furnished in appropriate column/ table	The information was found correct	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	The information was furnished in appropriate column/ table	The information was found correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The information was furnished in appropriate column/ table	The information was found correct	NIL
9h	Scrutiny of Annual return on fixed assets	The information was furnished in appropriate column/ table	The information was found correct	nil
9k	Scrutiny of Annual return on mining machineries	yes information was furnished	The information was found correct	

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines