

**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 : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr S Makesh - Sr General Manager (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 27/02/2019
- (v) Prev.inspection date : 14/10/2017

**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.co  
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 : 10.54
- (c) Period of lease : 10
- (d) Date of Expiry : 06/12/2001
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	The entire lease has explored under G1 level	NIL
1b	Exploration over lease area for geological axis 1 or 2	No proposal	The entire lease has explored under G1 level NIL	The entire lease has explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Not applicable	The entire lease has explored under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Balance area has to be explored	The entire lease has explored under G1 level	The entire lease has explored under G1 level
1e	Balance reserve as on 01/04/20	-----	Limestone - Marl  111- 435466 - 266575 211- 1159729 - 1461073 333- 1365768 - 1578706	Balance reserves as on 01.04.2018
1f	General remarks of inspecting officers on geology, exploration etc	--	---	The entire lease area has explored under G1 level

## 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.	No deviation observed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	The deposit area is devoid of any overburden,Top soil
2c	Stripping ratio or ore to OB ratio	Not applicable, since the deposit area is devoid of any overburden	Not applicable, since the deposit area is devoid of any overburden	the deposit area is devoid of any overburden
2d	Quantity of topsoil generation in m3	Not applicable, since the deposit area is devoid of any overburden	Not applicable, since the deposit area is devoid of any overburden	the deposit area is devoid of any overburden
2e	Quantity of overburden generation in m3	Not applicable, since the deposit area is devoid of any overburden	Not applicable, since the deposit area is devoid of any overburden	the deposit area is devoid of any overburden
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	---	development of pit Proposal is being followed

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**Exploitation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	One	one	NIL
3b	Quantity of ROM mineral production proposed	105680 tonnes	105300 tonnes	with in the limite
3c	Recovery of sailable/usable mineral from ROM production	Total ROM	Total ROM	ROM is well utilized and managed by blending the limestone from other own captive mines
3d	Quantity of mineral reject generation	Not applicable	No mineral reject generation	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	No mineral reject generation and threshold value declared
3f	Quantity of sub grade mineral generation.	NA	NA	Nosub-grade mineral generation
3g	Grade of sub grade mineral generation	NA	NA	No sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	sub-grade mineral generation hence segregating from ROM is doesnot arise
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	Rock Breaker used for excavation
3j	Provision of drilling and blasting in mineral benches	NA	NA	No drilling and blasting,only rockbrokead and Excavtor are used.

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- 1Nos 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 25 HP - 1 Nos 6)Contractor' Trucks Tat Benz ( Each 110 HP) -	Machineries as proposed is deployed for mining operation	The same are observed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 meters	7.5 meters	No deviation observed
3m	Total area covered under excavation/pits	181 × 137.5 × 31.5m	181 × 137.5 × 31.5m	NIL
3n	Ore to OB ratio for the pit/mine during the year.	Overburden does not arise	NA	Overburden does not exist. since there is no Topsoil and overburden,
3o	Total area put in use under different heads at the end of year	Area under Mining - 4.364Ha Infrastructures - 0.220Ha Roads - 0.14 Ha Green Belt - 4.18Ha Others - 0.625 Ha - 4.18Ha Others - 0.625 Ha	Area under Mining - 4.364Ha Infrastructures -0.220Ha Roads - 0.14 Ha Green Belt - 4.18Ha Others - 0.625 Ha	NIL

3p	Production of ROM mineral during the last five year period as applicable	Year Proposed	Year Actuals		During the year production is with in the limite
		2013-14	126097	2013-14	175885
		2014-15	102130	2014-15	111121
		2015-16	102140	2015-16	110983
		2016-17	105854	2016-17	115994
		2017-18	105680	2017-18	105300
		2018-19		2018-19	40100(up to
		160258		Feb2019)	
3q	General remarks of inspecting officers on method of mining etc.	---	--		method of mining is observed as per the proposals

## 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	As such there is no overburden or top soil to be mined, hence the management of waste dump does not arise.
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Not applicable	No overburden or top soil
4c	Number of dumps within lease area and outside of lease area	Not applicable	Not applicable	No overburden or top soil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	No overburden or top soil
4e	Number of active and alive dumps.	Not applicable	Not applicable	No overburden or top soil
4f	Number of dead dumps.	Not applicable	Not applicable	No overburden or top soil
4g	Number of dumps established.	Not applicable	Not applicable	No overburden or top soil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable	No overburden or top soil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	No overburden or top soil

4j	Number of settling ponds	Dewatering done through Nallah	Maintained	
4k	Specific comments of inspecting officer on waste dump management	--	--	No overburden or top soil

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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	No overburden or top soil, and minerl is not exhasted.
5b	Area under backfilling of mined out area	NA	NA	No overburden or top soil, and minerl is not exhasted.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No overburden or top soil, and minerl is not exhasted.
5d	Total area fully reclaimed and rehabilitated	NA	NA	No overburden or top soil, and minerl is not exhasted.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	--	No overburden or top soil, and minerl is not exhasted.

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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).	Proposals	Submitted	NIL



6b	Area available for rehabilitation (ha) .	NA	NA	Not at this stage
6c	afforestation done (ha).	NA	NA	NIL
6d	No. of saplings planted during the year	200	170	out side the lease area 50 nos
6e	Cumulative no .of plants	--	120	out side the lease area3230 nos
6f	Any other method of rehabilitation	NIL	NIL	Not at the stage
6g	Cost incurred on watch and care during the year	Not given	--	--
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Na	NA	There is no topsoil and overburden hence it doesnot arise
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	No backfilling Void filled by waste/tailings
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	No Backfilling
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NO rehabilitation by backfilling
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	No waste land within lease

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	No waste land within lease
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	No waste land within lease
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to carried out for every quarter	M/s Ensyscon Environmental laboratory, Chennai has been engaged for monitoring Environmental Data on Quarterly basis.	found to be within the limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	PMCP compliance & progressive closure operations is satisfactory

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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	ROM directly sent to factory	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	No sorting at mine head, ROM directly sent to factory
7c	Different grade of mineral sorted out at mines.	NA	NA	No sorting at mine head, ROM directly sent to factory
7d	Any beneficiation process at mines	NA	NA	No at beneficiation process at mines

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	--	ROM is fully used
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applivable	Not applivable	No topsoil occurance
8b	Concurrent use or storage of topsoil	NA	NA	No topsoil occurance
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	No dumps for overburden, waste rock, rejects
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	dumps for overburden, waste rock, rejects
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	dumps for overburden, waste rock, rejects
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200	170	
8g	Survival rate	90%	90%	nil
8h	Water sprinkling on roads to control airborne dust	Proposed	12KL water tanker is used for water sprinkling	Observed in the field

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	aesthetic beauty in and around mines area is good--
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer = Shri, Radhakrishna Kanth Geologist = N. Karthikeyan	As given in the AR	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use pattern furnished in appropriate column/ table	Observed As per the AR	The information was found correct
9d	Scrutiny of Annual return on afforestation	Given	The information was furnished in appropriate column/ table	The information was found correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	As per the AR	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	No stock of ROM at mine head	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Information furnished	
9h	Scrutiny of Annual return on fixed assets	yes	Information furnished	
9k	Scrutiny of Annual return on mining machineries	Yes	Information furnished	

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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

**Date :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines