

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/PBR/LST- 46.MDS

**Mine code :** 38TMN38004

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr. E. Vasudevan, Asst. General Manager (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 08/10/2018
- (v) Prev.inspection date : 02/08/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KAIRULABAD(2.25)**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : TAMIL NADU  
District : ARIYALUR  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. :  
E-mail : s.makesh@dalmiacement.com  
Phone :
- (f) Police Station : ARIYALUR
- (g) First opening date : 25/08/2004
- (h) Weekly day of rest : SUN
2. Address for : KAIRULABAD VILL.  
correspondance : ARIYALUR TK& DT
3. (a) Lease Number : TMN0934
- (b) Lease area : 2.25
- (c) Period of lease : 30
- (d) Date of Expiry : 20/07/2034
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : DALMIA CEMENT (BHARAT) LIMITED  
 TIRUCHIRAPALLI TAMIL  
 NADU  
 Phone:  
 FAX :

Owner : T. VENKATESAN  
 Dy. Managing Director  
 Dalmia Cement (B) Ltd  
 CHENNAI CITY TAMIL NADU  
 Phone: 044-28279933, 9  
 FAX : 044-28276508

Agent : J. V. GUNGANE  
 Executive Director Dalmia  
 Cement(B) Ltd Dalmiapuram  
 TIRUCHIRAPALLI TAMIL NADU  
 Phone: 04329-235123, 9865139444  
 FAX : 04329-235111

## Mining Engineer

Name : E.VASUDEVAN, Full Time  
 Qualification : B.E (MINING), MBA  
 Appointment/ : 03/12/2012  
 Termination date

## Geologist

Name : S. Selvakumar, Full Time  
 Qualification : M.Sc. (Applied Geo)  
 Appointment/ : 03/12/2012  
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 01/04/2009  
 Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 02/04/2014

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1-2.25	G1-2.25	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Geo Exploration & Mining Solutions, Salem	
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	Geology, exploration of the mine is found good.	
1e	Balance reserve as on 01/04/20			
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No Proposal	NIL	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No presence of top soil / Overburden	No presence of top soil / Overburden	
2c	Stripping ratio or ore to OB ratio	Not applicable	Not applicable	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	Development of pit is found systematically
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	6000 MT	Nil	due to market flexuvation
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	SIO2 7.10 - 8.20 AL2O3 2.25 - 3.70 FE2O3 8.10 - 12.35 CAO 42.10 - 45.40	SIO2 10.11 AL2O3 3.50 FE2O3 7.31 CAO 42.33	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	

3j	Provision of drilling and blasting in mineral benches	Proposed	As per the proposal	
3k	Provision of mining machineries in mineral benches	proposed in SOM	As per proposed in SOM	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 3 m, Width - 15 m	As per proposal	
3m	Total area covered under excavation/pits	2.25 H.a	2.25 H.a	
3n	Ore to OB ratio for the pit/mine during the year.	Not Applicable	Not Applicable	No Presence of OB
3o	Total area put in use under different heads at the end of year	2.25 H.a	2.25 H.a	
3p	Production of ROM mineral during the last five year period as applicable	30075 MT	18800 MT (as on 2017-18)	
3q	General remarks of inspecting officers on method of mining etc.		Method of mining is found systematicaly	

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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)	Nil	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided	Provided
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil
4j	Number of settling ponds	Nil	nil
4k	Specific comments of inspecting officer on waste dump management	--	waste dump management is found 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.	Not applicable	Not applicable	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable	
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable	

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5e General remarks -- back filling,  
of inspecting officers on reclamation does not  
backfilling and arise at the stgsge.  
reclamation etc.

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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).	NIL	NIL	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	The mine is in operation and all the benches are being worked
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	To be carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Proposed	PMCP measures found satisfactory

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA
7c	Different grade of mineral sorted out at mines.	NA	NA
7d	Any beneficiation process at mines	NA	NA
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	Mineral conservation & beneficiation is found to be satisfactory, Mineral is not wasted.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable since no top soil	Not applicable since no top soil	
8b	Concurrent use or storage of topsoil	NIL	not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	The is no generation of overburden, waste rock, rejects
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Not at the stage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NIL
8g	Survival rate	Not applicable	Not applicable
8h	Water sprinkling on roads to control airborne dust	Provided	Provided
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	Aesthetic beauty in and around mines are is found 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	Submitted	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Mining Engineer, Geologist and Manager appaointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	As per the proposals	
9d	Scrutiny of Annual return on afforestation	yes	As per the proposals	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not applicable	Not applicable
9f	Scrutiny of Annual return on ROM stock and/or graded ore	detail fuernished	detail fuernished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Given
9h	Scrutiny of Annual return on fixed assets	given	given
9k	Scrutiny of Annual return on mining machineries	given	1 Nos ofFront end loader (Capacity in cubic meters)HM 2021, 1 Nos of Atlas Copco BVB 25 ( I ) Wagon Drill, anore number od Portable Atlas copco XAH 210

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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