

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

**Mining Plan Modification REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-1, MDS

**Mine code :** 38TMN14014

- (i) Name of the Inspecting : **D009** ) **D.CHANDRA SEK HAR REDDY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : M R Raja Ranjith Singh DyGM (Mines) &QP and N.Karthik  
Official with  
Designation
- (iv) Date of Inspection : 22/07/2022
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KONVANDANAKURCHI(GO.2688**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUCHIRAPALLI
- Village : KOVANDANAKURCHI
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329 - 235111
- E-mail : s.makesh@dalmiacement.com
- Phone : 04329-235459, 9865165326
- (f) Police Station : DALMIAPURAM
- (g) First opening date : 01/07/1950
- (h) Weekly day of rest : SUN
2. Address for : DALMIA CEMENT (BHARAT) LIMITED  
correspondance DALMIAPURAM-621651
3. (a) Lease Number : TMN0106
- (b) Lease area : 25.91
- (c) Period of lease : 20
- (d) Date of Expiry : 18/06/2006
4. Mineral worked : MARL Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S DALMIA CEMENT (BHARAT) LIMITED  
 Fagun Mansion, 26, Ethiraj  
 salai Egmore, Chennai  
 CHENNAI CITY TAMIL NADU  
 Phone: 044 28279933  
 FAX : 044 28276508

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

Agent : S. Makesh  
 Dalmiapuram  
 TIRUCHIRAPALLI TAMIL NADU  
 Phone: 04329-235123  
 FAX : 04329-235123

## Mining Engineer

Name : M.R.Raja Ranjith Singh, Full Time  
 Qualification : B.E. Mining Engineering  
 Appointment/ : 03/12/2012  
 Termination date

## Geologist

Name : N.Karthikeyan, Full Time  
 Qualification : MSc., (Applied Geology)  
 Appointment/ : 03/12/2012  
 Termination date

## Manager

Name : M R RAJA RANJITH SINGH  
 Qualification : B.TECH-MINING, FIRST CLASS CERTIFICATE  
 Appointment/ : 11/03/2013  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	23/07/2003
		Modif.of approved Mining Plan	06/02/2004
		Renewal under rule 24 MCR1960	06/02/2004
		Mining Scheme rule 12 MCDR1988	18/03/2008
		Mining Scheme rule 12 MCDR1988	02/04/2014
		MP review under 17(1) MCR 2016	18/12/2018
		MP modif under 17(3) MCR 2016	29/05/2019

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	During the year 2021-22 ,11 no.of bore holes proposed in the year 2019-20 were drilled upto a total depth of 300 mts to prove the non-mineralised area for dumping purpose.	NIL
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	Entire mining lease area was explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	9.90 Lakhs spent during 2021-22 to cover backlog.	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire ML area explored.
1e	Balance reserve as on 01/04/20	--	Limestone (111)-32249027 tonnes Marl -32236679 tonnes Total -64485706	As on 01/04/2022
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Satisfactory. Entire Ml area explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	5 pits	4 pits	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	topsoil-1 bench, Mineral 4-8 benches.	As per proposal only.	NIL
2c	Stripping ratio or ore to OB ratio	1:0.2	1:0	No topsoil/OB handling .

2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	111506 cu.m.	NIL	No OB handled during the year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	No development work.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 pits	3 pits in operation	NIL
3b	Quantity of ROM mineral production proposed	4534748 tonnes out of which Limestone - 3012663 tonnes, Marl - 1522085 tonnes.	1798700 tonnes of Limestone produced.	Violation of Rule 11(1) of MCDR 2017 pointed out.
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is proposed to utilise.	Entire ROM is transported to plant to blend and utilise with Limestone from other own captive cement plants.	NIL
3d	Quantity of mineral reject generation	71248 cu.m of mineral rejects proposed.	NIL	No mineral rejects generated.
3e	Grade of mineral rejects generation and threshold value declared.	CaO-11%, SiO2-38%, Fe2O3 - 12%, Al2O3 - 9%.	No mineral rejects generated.	NIL
3f	Quantity of sub grade mineral generation.	470617 tonnes	No subgrade generated.	Violation of Rule 11(1) of MCDR 2017 pointed out.
3g	Grade of sub grade mineral generation	CaO-28%, SiO2-26%	No subgrade mineral generated.	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	Entire ROM transported to cement plant.

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	Envisaged.	Drilling and blasting adopted selective places using ANFO. Rock breaker is deployed.	NIL
3k	Provision of mining machineries in mineral benches	Yes.	As proposed Rock breaker , dozer and Tippers were deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9m benches proposed.	pm heigh benches maintained.	NIL
3m	Total area covered under excavation/pits	103.68 Hc	103.68 Hc.	Lease covered in 4 pits in different locations.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.2	1:0	No OB handled during the year 2021-22.
3o	Total area put in use under different heads at the end of year	Area under mining - 103.680 Hc.Waste dump- 6.76 Hc.,Plant & building - 1.624 Hc. Greenbelt &others - 53.941 Hc.	Area under mining - 103.680 Hc.Waste dump- 6.76 Hc.,Plant & building - 1.624 Hc. Greenbelt &others - 53.941 Hc.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 1990590 tonnes 2018-19- 1998738 '' 2019-20- 1999995 '' 2020-21- 3510711 '' 2021-22- 4534748 ''	2017-18 -1988800 tonnes. 2018-19-1637800 '' 2019-20-1565200 '' 2020-21-1701700 '' 2021-22-1798700 ''	Violation of Rule 11(1) of MCDR 2017 pointed out for not adhering to the proposals of 2021-22.

3q	General remarks of inspecting officers on method of mining etc.	—	—	proposed Production was not acheived due to low offtake of cement plant. similarly No OB/Waste/subgrade mineral were produced.Violation pointedout.
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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)	proposed.	As per proposal	NIL
4b	Location of topsoil, OB and mineral reject dumps	Dumps proposed with in Lease area.	AS per proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	6 no of dumps with in ML area.	Asper proposal 6 no of dumps only.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	with in UPL.	with in UPL.	NIL
4e	Number of active and alive dumps.	6 Nos	6 Nos	All dumps are active.
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	No proposal.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	Garland drains made earlier and maintained.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Not specified.	NIL	NIL
4j	Number of settling ponds	2 nos	As per proposal 2 nos maintained.	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Separate dumps are maintained .

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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.	NIL	NIL	NIL
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	Top soil utilised for plantation along lease boundary and stacked for future use.	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	No part of mine area is matured for backfilling and reclamation & rehabilitation.

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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).	Submitted.	Annual Repory submitted for the year 2021-22.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	1.5 Hc area was proposed for afforestation during 2021-22.	3500 saplings planted.	NIL
6d	No. of saplings planted during the year	3000 saplings proposed.	3500 saplings planted	NIL

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6e	Cumulative no .of plants	—	37974 nos.	6350 plants outside ML area.
6f	Any other method of rehabilitation	NIL	NIL	Mine is in advancing stage.
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	NIL	NIL	NIL
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)Afforestati on on backfilled area	No proposal	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	NA	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	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5 Hc.	Plantation along ML boundary.	NIL



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed periodical monitoring.	As per proposal quarterly monitoring done.	Parameters are within permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mine pits are in active state. 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	4534748 tonnes	1795095 tonnes	captive purpose only.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	Entire ROM mineral transported to cement plant for blending and fed to plant.	No separate sorting.
7c	Different grade of mineral sorted out at mines.	No sorting at mines.	Entire ROM mineral sent to cement plant.	Lime stone ,Marl are transported for blending at plant.
7d	Any beneficiation process at mines	NIL	No beneficiation at mines.	Entire ROM transported to plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Entire ROM mineral supplied to captive cement plant.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No topsoil removal during the year 2021-22.
8b	Concurrent use or storage of topsoil	NIL	NA	No topsoil removal during the year 2021-22.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes.	separate dumps are maintained as per proposals.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal given.	OB,wste,rejects and fines stacked separately in respective dumps.	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals given.	Mine pits are in advancing state .	Not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not envisaged.	34521 saplings.	NIL
8g	Survival rate	Not specified	70%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	water sprinkling on haul roads and transit points done.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory.

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**Compliance of Rule 45:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	submitted.	Monthly and Annual return for the year 2021-22 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished.	present during inspection.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details furnished.	Area under mining- 103.680 Hc., Dumps-6.760 Hc., plant&,building & roads-1.624 Hc., Green belt safety barrier- 53.941 Hc.	NIL
9d	Scrutiny of Annual return on afforestation	Details furnished.	7350 nos plantation done.( with in and out side ML area).	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished.	No mineral rejects generated during the year under review.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	1798700 tonnes.	ROM production on lower side than proposed.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Ex-mine price & cost of production shown as Rs.271.59.	Found reasonable.
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.233230860.	NIL
9k	Scrutiny of Annual return on mining machineries	Details given.	Back hoe (2.1 cu.m)-3 Nos, Dozer (165 HP)-1 no., Back hoe (2.7 cu.m)- 6 nos., Tipper (14 cu.m) -23 nos.	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)	01/08/2022			
MCDR17	Rule 31(4)	01/08/2022			

**Date :**

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines