

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

**Review and updation of Mining Plan REPORT**

**Chennai regional office**

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

**Mine code :** 38TMN14014

- (i) Name of the Inspecting : **K08** ) **G.SORNADURAI KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. Mayilrajan, GM-Mines  
Official with  
Designation
- (iv) Date of Inspection : 05/08/2023
- (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.makeish@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
		MP modif under 17(3) MCR 2016	19/08/2022

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Boreholes has been proposed during 2022-23.	No Boreholes has drilled during 2022-23.	No Boreholes has drilled during 2022-23.
1b	Exploration over lease area for geological axis 1 or 2	No additional exploration was proposed during 2022-23 in the lease area for Geological axis - 1	No additional exploration was carried out in the lease area for Geological axis - 1 during 2022-23	Entire lease area 166.005 hectares are under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2022-23	No Exploration during 2022-23.	So far 48 boreholes have been drilled in the lease upto 2021-22. Total expenditure towards exploration is 10 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2022-23.	No Exploration has been carried out during 2022-23.	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	Limestone & Marl as on 01.04.2023 Proved Mineral Reserves (111) = 62487913 tons Pre-Feasibility Mineral Resources (221) = 62057019 tons	Limestone & Marl as on 01.04.2023 Proved Mineral Reserves (111) = 62504659 tons Pre-Feasibility Mineral Resources (221) = 62057019 tons	The available grade of Limestone in this lease area is Cement Grade.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Cretaceous formations	Limestone deposits are of sedimentary origin of marine transgressional series of Maestrichtian age.	Limestone is yellowish colour and shallow marine sedimentary deposit.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During 2022-23, working proposal was from Pit-2, Pit-3 (East) & (West).	Working was not carried out as per in proposal area.	Violation has been issued under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 1 Bench Minerals - 7 Benches	Topsoil - Nil Minerals - 7 Benches	Violation has been issued under Rule 11(1)
2c	Stripping ratio or ore to OB ratio	1 : 0.00	1 : 0.00	Due to no OB waste, Stripping Ratio is zero.
2d	Quantity of topsoil generation in m3	57262 tons of Topsoil has been proposed from Pit-2 during 2022-23.	No topsoil has generated during 2022-23.	Violation has been issued under Rule 11(1)
2e	Quantity of overburden generation in m3	There is no proposal of generation.	No OB has generated during 2022-23.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2022-23, working proposal was from Pit-2, Pit-3 (East) & (West).	Violation has been issued under Rule 11(1) for not generated Topsoil as per proposal during 2022-23.	Due to no OB waste, Stripping Ratio is zero.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was proposed in from Pit-2, Pit-3 (East) & (West).	Productions are not carried out per in proposal area.	Violation has pointed out under Rule 11(1)
3b	Quantity of ROM mineral production proposed	The total target of Limestone production proposed was 1627990 tons & Marl is 369756 tons during 2022- 23.	Achieved Limestone Production is 1981000 tons during 2022-23. Marl production is Nil	Violation has been issued under Rule 11(1).
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	100% Recovery	Nil

3d	Quantity of mineral reject generation	There is no Mineral Reject generation	There is no Mineral Reject generation	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	There is no proposal of Sub Grade Generation for 2022-23	No Sub Grade Generation during 2022-23.	Nil
3g	Grade of sub grade mineral generation	There is no proposal of Sub Grade Generation for 2022-23	There is No Generation of Subgrade Mineral	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	Outside the lease area beneficiation plant is present.
3j	Provision of drilling and blasting in mineral benches	No Proposal of drilling & blasting	Drilling & Blasting are not done as per proposal.	Rock breakers are used for production.
3k	Provision of mining machineries in mineral benches	Excavators Dumpers Dozer	As per proposal the machineries are there during inspection.	Available machinery are shown in Annual Returns
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-23, Bench height of 9m was proposed in Mineral.	As per proposal benches are formed.	Topsoil bench has not formed and violation has been issued.
3m	Total area covered under excavation/pits	102.239 hect area is proposed for excavation during 2022-23	103.680 hect areas are under excavation.	Violation has been issued under Rule 11(1).
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.00	1 : 0.00	Due to no OB waste, Stripping Ratio is zero.

3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 102.239 hect Dump=6.76 hect	Land use Pattern as on 01.04.2023. Mines = 103.680 hect Dump=6.76 hect	Landuse pattern is same as per proposal except mines area. Violation has been issued under Rule 11(1).
3p	Production of ROM mineral during the last five year period as applicable	ROM (Limestone + Marl) 2022-23 = 1997746 tons 2021-22 = 4534748 tons 2020-21 = 3510711 tons 2019-20 = 1999995 tons 2018-19 = 1998738 tons	ROM (Limestone + Marl) 2022-23 = 1981000 tons 2021-22 = 1798700 tons 2020-21 = 1701700 tons 2019-20 = 1565200 tons 2018-19 = 1637800 tons	Achieved Limestone ROM Production is 1981000 tons during 2022-23.
3q	General remarks of inspecting officers on method of mining etc.	Production was proposed in from Pit-2, Pit-3 (East) & (West).	Achieved ROM Production is 1981000 tons during 2022-23 against proposal of 1997746 tons.	Marl has not been excavated and violation has been issued.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for dumping during 2022-23	No Dumping formed	Nil
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for dumping during 2022-23	No Dumping formed	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = 8 Dumps Non Lease area = Nil	Lease area = 8 Dumps Non Lease area = Nil	2 Marl stock yard are present
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	Nil
4e	Number of active and alive dumps.	Active Dump= Nil Alive Dump = Nil	Active Dump= Nil Alive Dump = Nil	2 Marl dumps are present
4f	Number of dead dumps.	No Proposal	Nil	Nil

4g	Number of dumps established.	No Dumps have been established.	No Dumps have been established.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Garland drains are constructed.	Garland drainage has made along the safety barrier.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	8500m of Garland drainage has been constructed.	Garland drainage has made along the safety barrier.
4j	Number of settling ponds	No proposal	2 settling ponds are maintained	Nil
4k	Specific comments of inspecting officer on waste dump management	There is no proposal for dumping during 2022-23	Garland drains are constructed.	Garland drainage has made along the safety barrier.

#### 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.	No proposal for backfilling during 2022-23	No backfilling has done during 2022-23	Nil
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no proposal for backfilling during 2022-23	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-23.	No backfilling has done during 2022-23.

#### 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).	It should be on or before 1st July every year.	Submitted for the year 2022-23.	Submitted within time limit.
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil

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6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2500 saplings proposed in safety zone in Pit-2 & 3 for 2021-2022	Total 4979 saplings has achieved during 2022-23 along safety zone.	Cumulatively 46850 saplings have been planted till date in both inside and outside lease area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 2.50 hect in safety zone for 2022-23	4.10 hect achieved in safety zone area during 2022-23	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green Belt development along 7.5m safety barrier.	Plantation has been done as per proposal along the safety barrier.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through Government as well as private agency.	Lessee is conducting Environmental monitoring and all are within permissible limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	2500 saplings have proposed during 2022-23 along safety barrier.	Total 4979 saplings has achieved during 2022-23 along safety barrier.	Plantation has been done as per proposal along the safety barrier.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM (Limestone & Marl) production proposed was 1997746 tons during 2022-23.	Achieved ROM (Limestone) Production is 1981000 tons during 2022-23.	Violation has been issued under Rule 11(1).

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade wise mineral sorting in the lease area.	Entire ROM is useable.	The available grade of Limestone in this lease area is cement grade.
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area varies from 35% CaO.	The Limestone of the lease area is 35% CaO	Grade of Marl is CaO +25% and Fe2O3 +22%
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	Entire ROM is useable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The available grade of Limestone in this lease area is cement grade.	1981000 tons of ROM has been achieved during 2022-23 against 1997746 tons of proposal.	Entire ROM is useable and blended with high grade limestone to get the desired plant feed materials.

#### Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	57262 tons of topsoil has been Proposed to generate during 2022-23	No topsoil has generated during 2022-23.	Violation has been issued under Rule 11(1)
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil	No topsoil has generated during 2022-23.	Violation has been issued under Rule 11(1)
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no proposal for dumping during 2022-23	No Dumping formed	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No backfilling has been proposed during 2022-23	No backfilling has done during 2022-23	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-23.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No backfilling has been proposed during 2022-23	No backfilling has done during 2022-23	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-23.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 saplings have proposed along safety barrier.	Total 4979 saplings has achieved during 2022-23 along safety barrier.	Plantation has been done as per proposal along the safety barrier.
8g	Survival rate	85% Proposal in the document.	90%	Same has shown in annual return
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	During Inspection, water sprinkling on mines roads has been noticed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	There is no prominent river or stream running in this area.	Outside lease area, seasonal nalla is running.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = July 2023 AR Submitted up to = 2022-23	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer & Mining Geologist has shown	During inspection Mining Engineer, Geologist is present.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2023. Mines = 102.239 hect Dump = 6.76 hect Infrastructure / Road = 1.624 hect	Landuse Pattern is filled as per approved Mining Plan	Nil
9d	Scrutiny of Annual return on afforestation	Lessee has planted 4979 saplings during 2022-23.	Plantation has been done as per proposal along the safety zone.	Cumulatively 46850 saplings have been planted till date in inside lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Proposal in the document	There is no Mineral Rejects Generation	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone stock as on 01.04.2023 ROM opening stock = Nil ROM closing stock = Nil	Mine has produced 1981000 tons of production during 2022-23.	It is captive mine of M/s. Dalmia Cements (Bharat) Limited.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine price has shown	It is captive mine of M/s. Dalmia Cements (Bharat) Limited.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled	Nil
9k	Scrutiny of Annual return on mining machineries	Machineries details given	As available in field	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)	16/08/2023			

**Date :**

**(G.SORNADURAI KANNAN)**

Indian Bureau of Mines