

**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.94-MDS

Mine code : 38TMN14072

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Raja Ranjith singh GM(mines) & Radhakrishnakanth Mana
Official with
Designation
- (iv) Date of Inspection : 21/10/2022
- (v) Prev.inspection date :

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 : Kallakudi
- (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 : 10.55
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2030
4. Mineral worked : MARL Associated
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	NIL	No proposals given.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Entire ML area already explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	ML area fully explored.
1e	Balance reserve as on 01/04/20		Reserves as on 01/04/22 Limestone Reserves(111)- 184366 tonnes and Marl- 266575 tonnes.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	--	--	Entire ML area explored .Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between grids E1214060 to E1214140 N275300 to N275500	As per proposal .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1 Topsoil benchand 4 Mineral benches.	I topsoil bench and 4 mineral benches maintained.	NIL
2c	Stripping ratio or ore to OB ratio	1:0	1:0	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	No topsoil generation.
2e	Quantity of overburden generation in m3	NIL	NIL	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	No Topsoil/OB generated.Satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit	As per proposal.
3b	Quantity of ROM mineral production proposed	proposals given to produce 24508 tonnes of Limestone and 65662 tonnes of Marl.	36700 tonnes of Limestone produced and '0' marl produced.	Violation of Rule 11(1) of MCDR 2017 pointedout.
3c	Recovery of sailable/usable mineral from ROM production	Not specified.	100%	Entire ROM transporting to cement plant.
3d	Quantity of mineral reject generation	NIL	NIL	No mineral reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	No subgrade mineral produced.
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised,	NIL
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	NIL	NIL	Non-conventional method of mining by deploying Rockbreaker , excator & Dumpers combination.
3k	Provision of mining machineries in mineral benches	Yes.	7.5 m height benches with proper width maintained.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Height and width of benches maintained as per proposals.	7.5 m height and width maintained.
3m	Total area covered under excavation/pits	4.28 Hc	4.28 Hc.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/waste generated.
3o	Total area put in use under different heads at the end of year	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt -6.045 Ha	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt -6.045 Ha	NIL
		Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt -6.045 Ha		
		Roads&Green Belt -6.045 Ha		

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 105680 tonnes 2018-19 - 160258 tonnes 2019-20 - 130250 tonnes 2020-21 - 110408 tonnes 2021-22 -90170 tonnes 2022-23 -75911 tonnes 2020-21 - 110408 tonnes	2017-18 -105300 tonnes 2018-19 - 51000 tonnes 2019-20 -81400 tonnes 2020-21 -82000 tonnes 2021-22 -36700 tonnes	ROM production less against proposals.
3q	General remarks of inspecting officers on method of mining etc.	—	—	ROM production eas less against proposals. Violation of Rule 11(1) was pointedout for deviation of proposals for the year 2021=22.

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	No Topsoil/OB generated.
4b	Location of topsoil, OB and mineral reject dumps	No proposal given.	NIL	No Topsoil/OB generated.
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	No dumps exist.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	Not applicable.	No Topsoil/OB dumps exist.
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal given.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	No dumps exist. Satisfactory .

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 proposals given.	NIL	Mine not reached ultimate depth.
5b	Area under backfilling of mined out area	No backfilling proposals.	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	NIL	No Topsoil present.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Mineral not extracted completely.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Satisfactory.

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.	Report for the year 2021-22 submitted.	NIL
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	Mining operation in progress.
6c	afforestation done (ha).	200 sapling in 0.22 Ha was proposed for plan period 2021-22	200 saplings planted as per proposal.	Plantation along lease boundary.
6e	Cumulative no .of plants	—	3800 saplings planted till date	Inside and outside the lease area
6f	Any other method of rehabilitation	NIL	NIL	NIL
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	No backfilling proposed	No Backfilling done	Mining is in progress. No area is completely mined out.
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)	proposal given.	Monitoring is done on Quarterly basis.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	No proposal for grade wise sorting.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	Entire ROM transported to Cement plant for blending.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL

7d	Any beneficiation process at mines	No proposal	NIL	No beneficiation process is adopted.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	No mineral conservation problem

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No topsoil.
8b	Concurrent use or storage of topsoil	No proposal.	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	NIL	No topsoil/OB/reject generation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Mine is in active state.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	NIL	Mine not reached ultimate pit level.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 saplings proposed.	200 saplings planted.	Plantation along lease boundary.
8g	Survival rate	80%	70-75%	NIL

8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on haul roads is done.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly returns are being submitted and Annual retruns 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.	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt -6.045 Ha	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads&Green Belt -6.045 Ha	Furnished under Part-1,item-12.
9d	Scrutiny of Annual return on afforestation	Details given.	200 no of saplings planted.	Furnished underPart-V,item-4.4.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	No reject/waste generation.	Furnished under part-V,item-4.2(B).
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnished.	36700 tonnes	Furnished under part-VI ,item 2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished.	Rs.271.59	Furnished under part-VI ,item-2, Part- VII.

9h	Scrutiny of Annual return on fixed assets	Furnished.	Rs.233230860	Furnishe under part-II (A).
9k	Scrutiny of Annual return on mining machineries	Furnished.	Back Hoe-0.9CUM-1no. Back Hoe-2.7 CUM 1no. Pumps-300L/MN-1 no Tipper-14 CUM, 1 no.	Furnished under part-V,sec-5/6/8/9

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)	04/11/2022			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines