

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TCR/LST-93-MDS

Mine code : 38TMN14074

- (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,DGM(mines) & N.Karthikeyan ,Geolog
Official with
Designation
- (iv) Date of Inspection : 05/08/2021
- (v) Prev.inspection date : 24/11/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALLAKUDI & KOVANDAKURICH**
- (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 & KOVANDAK
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329 - 235459.
- E-mail : ra.krishnakumar@dalmiaceme
- Phone : 04329-235111
- (f) Police Station : Kallakudi
- (g) First opening date : 05/10/1939
- (h) Weekly day of rest : SUN
2. Address for : Dalmia Cement (Bharat) Limited,
correspondance
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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 : T. VENKATESAN
Dy. Managing Director
Dalmia Cement (B) Ltd
CHENNAI CITY TAMIL NADU
Phone: 044-28279933, 9
FAX : 044-28276508

Agent : R. A. KRISHNAKUMAR
Executive Director Dalmia
cements(B) Ltd.,
Dalmiapuram TIRUCHIRAPALLI
TAMIL NADU
Phone: 04329-294632
FAX : 04329-235111

Mining Engineer

Name : M.R.Raja Ranjith Singh, Full Time
Qualification : B.E. Mining Engineering
Appointment/ : 11/03/2013
Termination date

Geologist

Name : N.Karthikeyan, Full Time
Qualification : MSc., (Applied Geology)
Appointment/ : 03/12/2013
Termination date

Manager

Name : RAJA RANJITH SINGH
Qualification : BE(MINING)
Appointment/ : 11/03/2013
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04/07/2013
Plan/Scheme of Mining		MP modif under MCR 1960	08/07/2015
		MP modif under 17(3) MCR 2016	28/03/2018
		MP review under 17(1) MCR 2016	11/12/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Entire ML area already explored to G-! Level.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Lease Area fully 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	NIL
1e	Balance reserve as on 01/04/20	—	Mineable reserves (111) category: Limestone-3412669 tonnes. Marl - 1643197 tonnes.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

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.	workings advancing mineral bench both Lateral and Vertical.	As per proposals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No Topsoil/OB exist
2c	Stripping ratio or ore to OB ratio	1:0	1:0	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	No Topsoil.
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	—	—	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits.	2 pits operated.	NIL

3b	Quantity of ROM mineral production proposed	proposed excavation of 739440 tonnes of Limestone and 9949 Tonnes of marl.	533200 tonnes of Limestone produced during the plan period.	Violation pointedout .
3c	Recovery of sailable/usable mineral from ROM production	100 % recovery	Enrire ROM consumed .	Blending with high grades from other mines.
3d	Quantity of mineral reject generation	NIL	NA	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NIL	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	No proposal.	Not carried out.	Non-conventional mining with Rock breaker practiced.
3k	Provision of mining machineries in mineral benches	Deployment of Machinery proposed.	Rock Breaker mounted on Hydraulic excavator - 3nos. Backhoe excavators-3nos. Dozer-1no. Tippers-11 nos.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5m bench proposed.	AS proposed 7.5m benches maintained.	NIL

3m	Total area covered under excavation/pits	11.040 Hc.	11.040 Hc.	As per proposal.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No Topsoil.OB,Waste generation.
3o	Total area put in use under different heads at the end of year	Mining-11.040 Hc.,Roads-0.382 Hc.,Green belt-1.248 Hc.,Others-0.625 Hc.	Mining-11.040 Hc.,Roads-0.382 Hc.,Green belt-1.248 Hc.,Others-0.625 Hc.	As per proposals.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 746621 tonnes 2018-19 - 749993 tonnes. 2019-20 - 749831 tonnes. 2020-21 - 749389 tonnes. 2021-22 (upto july21) - 749665 tonnes. 2019-20 2020-21 2021-22(upto july)	2017-18 - 107900 tonnes. 2018-19 - 745300 tonnes. 2019-20 - 738000 tonnes. 2020-21 - 533200 tonnes. 2021-22(upto july) - 290000 tonnes.	violation pointedout.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NA	No Topsoil/OB/Mineral rejects Generated.
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	No dumps exist with in ML area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	No dumps exist with in ML area.
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	No dumps exist.
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	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.	NIL	NA	Mineral not exhausted .
5b	Area under backfilling of mined out area	No backfilling proposal.	No backfillingcarried out.	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No Topsoil occurence.
5d	Total area fully reclaimed and rehabilitated	No proposal for reclamation/re habilitation.	NIL	Mine workings not matured for reclamation &rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Satisfactory.

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).	Yes.	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	Mine is in progression.
6c	afforestation done (ha).	250 saplings proposed over an area of 0.25 Hc.	450 saplings planted over 0.55 Hc.	within and out side lease area.
6d	No. of saplings planted during the year	250 saplings.	450 saplings.	NIL
6e	Cumulative no .of plants	--	3098	Out side 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	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)Afforestation on on backfilled area	NIL	NIL	NIL

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	Mine is in progress.
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 available.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	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 Quarterly monitoring of environment parameters.	Carriedout. M/s ITC Labs,Chennai engaged for the work.	complied.
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	No sorting proposed.	No sorting of mineral grade wise.	Entire ROMis transported to cement plant.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No Topsoil present and removed.
8b	Concurrent use or storage of topsoil	NIL	NA	No Topsoil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	No Topsoil/OB/Rejects dumps exist.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	Mine is under orogression,not matured for restoration of land.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 saplings proposed for the year 2020-21.	Around 350 saplings planted	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	water sprinkling proposed.	water sprinkling carried out.	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 ad AR 2020-21 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished.	Manager- Raja ranjith Singh Mining Engineer - Raja ranjith Singh Geologist - N.Karthikeyan.	Present during Inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Area Covered under current workings - 11.040 Hc. Occupied by plant, building, office etc. - 0.382 Hc. Others - 1.873 Hc.	NIL

9d	Scrutiny of Annual return on afforestation	Detail furnished.	with in lease area 300 & out side lease area 150	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil information furnished.	No mineral reject Generation, entire ROM consumed.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	Opening stock - 4473 Tonnes Production - 533200 tonnes Despatches - 533406 tonnes. closing stock - 4267 tonnes.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Sale price & Ex.mineprice mentioned Rs. 227.30 appears reasonable.	NIL
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.258661041	NIL
9k	Scrutiny of Annual return on mining machineries	Details furnished.	Backhoe 2.7 Cu.m- 3 no"s Backhoe 2.1 Cu.m - 1 no". Tipper 14 Cu.m - 11 no. Dozer 165 HP - 1 no. Backhoe - 0.9 Cu.m-1	NIL

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)	12/08/2021			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines