

**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 : 043) T.PHALTHURAJHEN
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri. RADHAKRISHNAKANTH.
Official with
Designation
- (iv) Date of Inspection : 07/10/2022
- (v) Prev.inspection date : 05/08/2021

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 correspondence** : Dalmia Cement (Bharat) Limited,
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	Lease area fully explored under G1 Level.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Lease area fully explored under G1 Level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NIL	NIL
1e	Balance reserve as on 01/04/20	proved mineral reserve (111), feasible mineral Resources (211), prefesible mineral Resources (221)	Limestone 2750369, tones , 0 tones , 7361909 tones =10112278 tones , marl reserves =1643197 tones, 0 tones , Marl 1068758 tones.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	proposal was adequate.	by and large proposal was followed	Nil

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	as per the proposal mining actives are carried out.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	Overburden does not occur.
2c	Stripping ratio or ore to OB ratio	NA	NA	NIL
2d	Quantity of topsoil generation in m3	NA	NA	NIL
2e	Quantity of overburden generation in m3	NA	NA	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposal was adequate.	proposal is being followed	development of pit is found satisfactory.

Exploitation:

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

3b	Quantity of ROM mineral production proposed	In the plan period it is planned to produce 749665 tonnes of Limestone and Marl Limestone and marl limestone 743615 , marl-6050 tonnes.	production for the plan period is 662300 tonnes of Limestone.	Nil
3c	Recovery of sailable/usable mineral from ROM production	ROM IS SUITABLE FOR CEMENT GRADE.	Rom is well utilize and managed by blending the Limestone from other own captive mines.	nil.
3d	Quantity of mineral reject generation	NA	NA	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	The subgrade mineral is blended with Limestone from our other own captive mines.
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NIL
3j	Provision of drilling and blasting in mineral benches	NA	NA	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the benches is proposed to maintained at height of 9.0 mts.	As proposed the height of the benches is maintained.	NIL

3m	Total area covered under excavation/pits	Size of Pit 2- 238.5x81.5x 28.3mts, size of pit 3 (west) 429 x 212x 48.4 mts.	11.04 ha is covered under excavation	As per the proposal.
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA	OVERBURDEN DOES NOT EXIST .
3o	Total area put in use under different heads at the end of year	Area under mining -11.04 ha, Rodes-- 0.382 ha, others (Afforestation and safety barrier)-1.873 ha.	Area under mining -11.04 ha, Rodes--0.382 ha, others (Afforestation and safety barrier)- 1.873 ha.	As per proposal.
3p	Production of ROM mineral during the last five year period as applicable	year- 2017-18=746621, 2018-749993 , 2019-20=749831 , 2020-21=749389 , 2021-22=749665	107900 tones , 745300 tonnes, 738000 tonnes , 533200 tonnes , 662300 tonnes.	
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)	NA	NA	No oB or Top Soil.
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No OB or Top soil
4e	Number of active and alive dumps.	NIL	NIL	No oB or Top Soil.
4f	Number of dead dumps.	NA	NA	NO OB OR TOP SOIL.
4g	Number of dumps established.	NA	NA	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	NIL
4j	Number of settling ponds	NIL	2	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.	NA	NA	Not at the stage.
5b	Area under backfilling of mined out area	NA	NA	No proposal for back filling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	NA
5d	Total area fully reclaimed and rehabilitated	NA	NA	NO Topsoil occurance.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	No back filling.

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	Submitted	Submitted the PMCP yearly year .For the year 2021-2022 submitted on 17/06/2022.
6b	Area available for rehabilitation (ha) .	NIL	NIL	Mining is in progress.
6c	afforestation done (ha).	0.25 ha was proposed for year 2021-2022.	0.8ha planted in year 2021-2022 Till date about 3.3 ha afforested out side the lease area.	plantion done outside lease area also.
6d	No. of saplings planted during the year	250 saplings	850 saplings planted inside the lease area.	survival rate is 90%.
6e	Cumulative no .of plants	-	3948 saplings planted till date.	Including outside lease Area.
6f	Any other method of rehabilitation	NIL	NIL	NA.
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	NO back filling proposed.	No back fillin done.	Mining is in progress in the lease area. No area is completely mined out for reclamation
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	NA	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Mining is in Proress	Mining is in Proress	-

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	No waste land is within lease area.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	No waste land within lease.
6p	Compliance of environmental monitoring (core zone and buffer zone)	To be carried out every quarter.	M/S. intersteller Testing Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	PMCP measures found satisfactory.	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	The total ROM is used
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	The total ROM is used
7c	Different grade of mineral sorted out at mines.	NA	NA	The Total ROM is used.
7d	Any beneficiation process at mines	NA	NA	Total ROM IS used.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	nil	Conservation was found satisfactory	The total ROM is used.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No Top soil
8b	Concurrent use or storage of topsoil	NA	NA	No Top soil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	No generation of Top soil and waste.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	No geperation of Top soil and wast.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NO
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	it is planned to plant 250 saplings for the current year 2021-2022	850 Saplings planned for the current year year 2021-2022	Nil
8g	Survival rate	90%	90%	Nil
8h	Water sprinkling on roads to control airborne dust	usings Water Tanker	12 K water tanker is used for water sprinkling	Found water tanker is usde for Water is used for water sprinkling.

8i General remarks --- --- Satisfactory.
of inspecting
officer on
aesthetic beauty
in and around
mines area

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly returns and AR 2021-2022 submitted.	Submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	details furnished	name of the mining Engineer and Geologist : J.Vijayakumar and S.Selvakumar.	Found as per the record submit to IBM.
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 ha, Occupied by plant, building, office ect- 0.382 ha , other -1.873 ha	Nil
9d	Scrutiny of Annual return on afforestation	details given.	850 saplings planned inside the lease area , 3948 saplings planted till date ,including outside the lease area.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil, information furnished	No Minerals reject generation , entired RCOM consumed	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	details given	Opening stock=5967.000 tonnes, production=0.000 tonnes, despatches= 0.000 tonnes, Closing stock at mine head= 5967.000 tonnes	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details given.	sale price & ex .mine price mentioned as Rs.227.00/	
9h	Scrutiny of Annual return on fixed assets	details given	Rs.258661041/	Nil.

9k	Scrutiny of details Annual return on furnished . mining machineries	Backhoe-2.7 cu.m- 3 nos, backhoe-2.1 cu.m-1 Tipper-14 cu-11, Dozer- 165 HP-1 no backhoe-0.9 cu.m-1 no	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)	03/11/2022			

Date :**(T.PHALTHURAJHEN)**

Indian Bureau of Mines