

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PT/LST-13.MDS

Mine code : 38TMN38001

- (i) Name of the Inspecting : **G039**) **G.C.Sethi**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. Raja Ranjith Singh, DGM Mines
Official with
Designation
- (iv) Date of Inspection : 11/07/2023
- (v) Prev.inspection date : 01/12/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PERIATHIRUKONAM**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : ARIYALUR
Village : PERIATHIRUKONAM
Taluka : ARIYALUR
Post office : IDAYATHANKUDI
Pin Code :
FAX No. : 04329-35111
E-mail : s.makesh@dalmiacement.com
Phone : 04329-235459, 9865165326
- (f) Police Station : KEELAPALUR
- (g) First opening date : 01/04/2011
- (h) Weekly day of rest : SUN
2. Address for : Dalmia Cement (B) Ltd.
correspondance : DALMIAPURAM-621651
TRICHY
3. (a) Lease Number : TMN0745
- (b) Lease area : 61.37
- (c) Period of lease : 50
- (d) Date of Expiry : 29/03/2051
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : DALMIA CEMENT (BHARAT) LIMITED
 TIRUCHIRAPALLI TAMIL
 NADU
 Phone:
 FAX :

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

Agent : J. V. GUNGANE
 Executive Director Dalmia
 Cement(B) Ltd Dalmiapuram
 TIRUCHIRAPALLI TAMIL NADU
 Phone: 04329-235123, 9865139444
 FAX : 04329-235111

Geologist

Name : S. Selvakumar, Full Time
 Qualification : M.Sc. (Applied Geo)
 Appointment/ : 01/12/2008
 Termination date

Manager

Name : Johnson D
 Qualification : B.E Mining Engineer
 Appointment/ : 01/08/2022
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	08/01/1996
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	28/12/2001
	:	Mining Scheme rule 12 MCDR1988	07/03/2006
	:	Mining Scheme rule 12 MCDR1988	27/10/2011
	:	Mining Scheme rule 12 MCDR1988	04/03/2016
	:	MP review under 17(1) MCR 2016	02/12/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	No Exploration done during 2022-23
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1.	Geological axis - 1.	Entire lease area is under G-1 category.
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	2.82 million tons as per the ROMP approved on 02.12.2020	1.58 million tons as per the 2022-23 annual return.	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	Nil	1.58 million tons	Cement Grade Limestone.
1f	General remarks of inspecting officers on geology, exploration etc	It is belongs to Niniyur stage of Cretaceous system.	No exploration has been done during 2022- 23. Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working proposed between the co-ordinates N 7035 to N 7568 and E 7727 to E 8159.	Development carried out as per proposal. Worked between the co-ordinates N 7035 to N 7568 and E 7727 to E 8159.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	One bench in Topsoil, three bench in OB & four benches in Ore.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.1	1 : 0.2	The deviation is due to higher development during 2022-23. Violation issued under Rule 11(1) of MCDR, 2017.

2d	Quantity of topsoil generation in m3	27726 tons of topsoil proposal	26535 tons of Topsoil generated.	Nil
2e	Quantity of overburden generation in m3	15403 cu.m of OB has been proposed	119464 cu.m of OB has been achieved.	Violation issued under Rule 11(1) of MCDR, 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	The Mine development is confined for the proposed location.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Nil
3b	Quantity of ROM mineral production proposed	649750 tons	623500 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	100% Recovery	Nil
3d	Quantity of mineral reject generation	No Proposal	Nil	Not Applicable
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Not Applicable
3f	Quantity of sub grade mineral generation.	No Proposal	Not generated	Not Applicable
3g	Grade of sub grade mineral generation	Nil	Nil	Not Applicable
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.	Not applicable	No beneficiation is carried out	Not Applicable
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting are proposed.	Drilling & Blasting being done	Nil
3k	Provision of mining machineries in mineral benches	Excavator, Backhoe, Tippers, Rock Breakers Dozer	As proposed the machineries are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 6m and width 6- m	Bench height -6m and width 6- m	Nil
3m	Total area covered under excavation/pits	18.95 ha	18.95 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.1	1 : 0.2	The deviation is due to higher development during 2022-23. Violation issued under Rule 11(1) of MCDR, 2017.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 18.95 hect Dump = 6.340 hect Reclaimed & Rehabilitated = 27.730 hect	Land use Pattern as on 01.04.2023. Mines = 18.95 hect Dump = 6.340 hect Reclaimed & Rehabilitated = 27.730 hect	Nil
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 649750 tons 2021-2022 = 850713 tons 2020-2021 = 465520 tons 2019-2020 = 863949 tons 2018-2019 = 992017 tons	2022-2023 = 623500 tons 2021-2022 = 800378 tons 2020-2021 = 360900 tons 2019-2020 = 568600 tons 2018-2019 = 597400 tons	Less limestone production due to less plant requirement.

3q	General remarks of inspecting officers on method of mining etc.	Nil	Mining operation is being done by opencast mechanised means.	Nil
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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)	No Dumping proposal	Dumping not in practice	Nil
4b	Location of topsoil, OB and mineral reject dumps	No Dumping proposal	Not done	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	No Proposal	Nil	Nil
4f	Number of dead dumps.	Lease area = 1	Lease area = 1	Nil
4g	Number of dumps established.	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Existing old dumps are present for OB	Nil

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.	Part Backfilling has been proposed.	Backfilling has done more than as per proposal.	Violation issued under Rule 11(1) of MCDR, 2017.
5b	Area under backfilling of mined out area	0.36 ha	1.52 ha	Violation issued under Rule 11(1) of MCDR, 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	current use of Topsoil	current use of Topsoil	Nil
5d	Total area fully reclaimed and rehabilitated	0.36 ha proposed for Backfilling	1.52 ha achieved for Backfilling.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	1.52 ha has been Backfilling against proposal of 0.36 ha	Nil

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	PMCP report for the year 2022-23 has been submitted
6b	Area available for rehabilitation (ha) .	1.20 ha	1.10 ha	Nil
6c	afforestation done (ha).	1.20 ha	1.10 ha	Nil
6d	No. of saplings planted during the year	1200 nos	1300 nos	Nil
6e	Cumulative no .of plants	48500 nos	52322 nos	Nil
6f	Any other method of rehabilitation	Plantation on backfilled area	Plantation on backfilled area	Nil
6g	Cost incurred on watch and care during the year	2.00 lakhs	2.00 lakhs	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.36 ha	1.52 ha	Violation issued under Rule 11(1) of MCDR, 2017.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	15403 cu.m	119494 cu.m	Violation issued under Rule 11(1) of MCDR, 2017.
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
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	No Proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Periodical monitoring.	Environmental parameters are within limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	More plantations done against the proposed number for compliance to PMCP proposals.	PMCP proposals have been complied.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	649750 tons	623500 tons	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	Nil
7c	Different grade of mineral sorted out at mines.	No Mineral sorted out	No Mineral sorted out	Nil
7d	Any beneficiation process at mines	No Proposal	No processing of mineral is involved.	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Achieved ROM Production is 623500 tons during 2022- 2023 against proposal of 649750 tons.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed for separate removal and utilization of topsoil.	Topsoil is used in backfilled	Nil

8b	Concurrent use or storage of topsoil	Concurrent Use	Concurrent Use	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Nil	Existing old dumps are present for OB
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling	Backfilling has not done as per proposal.	Violation issued under Rule 11(1) of MCDR, 2017.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling	Backfilling has not done as per proposal.	Violation issued under Rule 11(1) of MCDR, 2017.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1200 saplings proposed.	1300 saplings planted.	Plantation has been done as per proposal.
8g	Survival rate	No Such proposal in document	85%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling	Water Sprinkling is being done on roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Concurrent backfilling followed by plantation in systematic practice.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	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	Manager, Geologist & mining engineer are appointed.	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.	Covered under current (O/C) Workings 18.95ha; Reclaimed - Rehabilitated 27.730ha; Used for waste disposal 6.340ha; Occupied by plant, buildings, residential, welfare buildings & roads-0.240ha; Other Purpose (Green Belt , Safety Zone & Others)- 8.105ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	1300 saplings	Furnished under part-V.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	119494 cu.m of OB & waste	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	623500 tons	Furnished in part- VI	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs.282/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.62571574/-	Furnished in part- II-A	Nil
9k	Scrutiny of Annual return on mining machineries	Backhoe, Shovel, Tipper, Dozer, Pump, Drill, Explosive Van, Water Tanker	Furnished in part- V sec 6	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)	13/07/2023	07/08/2023				

Date :

(G.C.Sethi)

Indian Bureau of Mines