

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TCR/LST/-5,Mds

Mine code : 38TMN14020

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : M R Raja Ranjith Singh - General Manager, TC Gopi Raj
Official with
Designation
- (iv) Date of Inspection : 09/02/2023
- (v) Prev.inspection date : 04/07/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PERIANGALUR**
- (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 : PERIANGALUR
Taluka : ARIYALUR
Post office :
Pin Code : 621704
FAX No. : 04329-235111
E-mail : s.makesh@dalmiacement.com
Phone : (04329) 22004
- (f) Police Station : ARIYALUR
- (g) First opening date : 08/09/1965
- (h) Weekly day of rest : SUN
2. Address for : DALMIA CEMENT (BHARAT) LIMITED
correspondance : DALMIAPURAM-621651
3. (a) Lease Number : TMN0109
- (b) Lease area : 70.01
- (c) Period of lease : 20
- (d) Date of Expiry : 07/09/1985
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 : S.Makesh
 Dalmiapuram
 TIRUCHIRAPALLI TAMIL NADU
 Phone: 04329-235123
 FAX : 04329-235123

Mining Engineer

Name : C.Manikandan, Full Time
 Qualification : BEMining Engineering
 Appointment/ : 24/05/2021
 Termination date

Geologist

Name : K.Jayanthan, Full Time
 Qualification : MSc Applied Geology
 Appointment/ : 18/06/2020
 Termination date

Manager

Name : E. Vasudevan
 Qualification : B.TECH WITH FIRST CLASS
 Appointment/ : 03/12/2012
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04/02/1998
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	09/09/2003
	:	Modif.of approved Mining Plan	31/12/2003
	:	Mining Scheme rule 12 MCDR1988	18/05/2011
	:	Mining Scheme rule 12 MCDR1988	09/02/2015
	:	MP modif under 17(3) MCR 2016	04/05/2018
	:	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 already fully explored upto G1 level
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserve as on 01/04/20	6,220,576 tonnes	6,577,232 tonnes	As on 01.04.2022
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Lease already fully explored upto G1 level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 4516 - 5267 E 5264-6102	N 4516 - 5267 E 5264-6102	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil or overburden	No topsoil or overburden	Nil
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No topsoil or overburden
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
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 or OB excavation proposed or carried out
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit operated	As proposed
3b	Quantity of ROM mineral production proposed	9,50,202 tonne	7,46,869 tonne	Within limit
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM consumed
3d	Quantity of mineral reject generation	Nil	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	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	Drilling & Blasting proposed	ICM260 drill machine used. Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site available in Mines.	As proposed
3k	Provision of mining machineries in mineral benches	Yes	30T Class Excavator & 31 ton Taurus tippers used	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mt bench height proposed	6 mt bench height maintained	-do-
3m	Total area covered under excavation/pits	53.23 H.a	53.23 H.a	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB envisaged or excavated
3o	Total area put in use under different heads at the end of year	59.53 H.a	59.53 H.a	-do-
3p	Production of ROM mineral during the last five year period as applicable	2017-18 796628 2018-19 1001079 2019-20 1199154 2020-21 750930 2021-22 950202	2017-18 779700 2018-19 781957 2019-20 796153 2020-21 797777 2021-22 746869	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil, OB or rejects envisaged	No topsoil, OB or rejects removed	As proposed

4b	Location of topsoil, OB and mineral reject dumps	NA	NA	Nil
4c	Number of dumps within lease area and outside of lease area	One sub-grade dump within lease area	One sub-grade dump within lease area	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western side of lease	Western side of lease	-do-
4e	Number of active and alive dumps.	One	One	Sub-grade dump
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.	Nil	Nil	Temporary sub-grade dump
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 waste generation. Temporary sub-grade dump maintained within lease.

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	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No backfilling envisaged or carried out.

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	Nil
6c	afforestation done (ha).	0.10 Ha	0.50 Ha	As proposed
6d	No. of saplings planted during the year	150 nos	650 nos	-do-
6e	Cumulative no .of plants	-	9,324 nos	Cumulative
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 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	Nil
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)	Periodical monitoring proposed	Periodical monitoring carried out	All parameters within norms

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance & Progressive Closure Operations were found satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting proposed	Grade-wise sorting carried out	As proposed
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	-do-
7c	Different grade of mineral sorted out at mines.	Limestone & High-Ferruginous Limestone	Limestone & High-Ferruginous Limestone	-do-
7d	Any beneficiation process at mines	Nil	Nil	HFL is blended with Lst & consumed
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No issues were observed with mineral conservation. No beneficiation is proposed or carried out. Low grade ore is blended with high grade & consumed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	No topsoil available
8b	Concurrent use or storage of topsoil	NA	NA	-do-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	No generation of OB, Waste
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Pit to be converted to water reservoir upon exhaustion of reserves
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	150 nos saplings proposed to be planted during the year	650 nos sapling planted during the year	9,324 nos saplings planted cumulatively
8g	Survival rate	85%	85%	As proposed
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tanker deployed to controll airborne dust	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines was found satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Shri. TC.Gopi Rajesh Kumar Mining Engineer in charge Shri. C.Manikandan Geologist in charge Shri. K.Jayanthan	Given in Part 1, Sl 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 53.230 53.230 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.440 1.440 (vi) Other Purpose (Afforestation & Future mining) 0.000 15.340 15.340 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	Given in Part I, Sl 12	Nil

9d	Scrutiny of Annual return on afforestation	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 650 0 (ii) Survival rate in percentage 85.00 0	Given in Part V, Sec 4.4	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade	Given in Part V, Sec 4. Mineral Rejects for Limestone	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 933291.000 746869.000 881618.000	Given in Part VI, Sl 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price & Cost of Production - Rs 200.87 per tonne	Given in Part VI & VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 5,75,90,211/-	Given in Part II A Capital Structure	Nil

9k	Scrutiny of Annual return on mining machineries	BACK HOE 2.100 Given in Part V, Sec 5 CUM 1 Non Electrical Opencast WHEEL LOADER 4.000 CUM 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 1 Non Electrical Opencast OTHERS (NON- ELEC.) 7.500 1 Non Electrical Opencast TIPPER 18.000 CUM 7 Non Electrical Opencast	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 34(1)	03/03/2023	10/04/2023		

Date :

(Matiul Islam)

Indian Bureau of Mines