

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

Mining Plan Modification REPORT

Chennai regional office

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

Mine code : 38TMN38021

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : M.R Raja Ranjith singh Gm (Mines) & Johnson , Mines M
Official with
Designation
- (iv) Date of Inspection : 22/12/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PERIATHIRUKONAM(64.515 HA**
- (b) **Registration NO.** : **IBM/291/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : ARIYALUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 04329-235111
E-mail : s.makesh@dalmiacement.com
Phone : 04329-235459, 9865165326
- (f) Police Station : KEELAPALUR
- (g) First opening date : 26/03/2001
- (h) Weekly day of rest : SUN
2. Address for : DALMIA CEMENT (B)LTD
correspondance : DALMIAPURAM-621651
TRICHY.
3. (a) Lease Number : TMN1542
- (b) Lease area : 44.7
- (c) Period of lease : 50
- (d) Date of Expiry : 26/01/2061
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 : R. A. KRISHNAKUMAR
 Executive Director Dalmia
 cements(B) Ltd.,
 Dalmiapuram TIRUCHIRAPALLI
 TAMIL NADU
 Phone: 04329-294632
 FAX : 04329-235111

Mining Engineer

Name : S.Santhosh kumar, Full Time
 Qualification : BE(mining)
 Appointment/ : 01/07/2023
 Termination date

Geologist

Name : P.Sarath Babu., Full Time
 Qualification : MSC (Geology)
 Appointment/ : 28/11/2023
 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	20/07/2004
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25/02/2015
	:	MP review under 17(1) MCR 2016	29/11/2019
	:	MP modif under 17(3) MCR 2016	07/02/2022

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	Entire lease area brought under G1 level.	Entire Lease area under 111,211 & 221 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	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	—	374989 tonnes (111 category)	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Entire lease area explored to G1 Level. Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-7500 to 7773 E- 8069 to 8351 & N-6860 to 7220 E-8190 to 8465	As per proposal .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil - 1 Bench Over Burden - 3 benches Lst - 4 benches	Southern and Eastren side benches are not as per proposal.	Violation of Rule 11(1) pointed out.
2c	Stripping ratio or ore to OB ratio	1:0.98	1:0.96	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL

2e	Quantity of overburden generation in m3	571400 (M3)	580963(M3)	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	More development work done.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	992436 tonnes	974600 tonnes.	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	entire ROM consumed.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	No mineral reject generated.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	No sub-grade is generated.
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	For Crawler mounter drill & compressor is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines. Rock breaker used for breaking boulders.	For Drilling Crawler mounter drill & compressor is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines. Rock breaker used for breaking boulders.	NIL
3k	Provision of mining machineries in mineral benches	Yes ,proposal given for deployment of HEM machinery.	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurs tippers are used. Rock breaker also deployed for breaking boulders.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height - 6M , Bench Width - 8- 10m proposed.	Bench height not maintained towards Southern and Eastren side of the pit.	Violation of Rule 11(10 pointed out.
3m	Total area covered under excavation/pits	24.518 Ha	24.706 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.98	1:0.96	NIL
3o	Total area put in use under different heads at the end of year	25.228 Ha	25.416 ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 472512 tonnes 2019-20 - 471492 tonnes 2020-21 - 884605 tonnes 2021-22 - 746241 tonnes 2022-23 - 992436 tonnes	2018-19 - 34800 tonnes 2019-20 - 382800 tonnes 2020-21 - 432300 tonnes 2021-22 - 698800 tonnes 2022-23 - 974600 tonnes.	NIL

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)	No topsoil dump.OB dump proposed.	No separatedump for Topsoil. OB Dump available on the top of Pit in the NW side of the lease area.	Top soil isspread over the top of thebackfilled area.
4b	Location of topsoil, OB and mineral reject dumps	NA	OB Dump is located in the non Limestone area - NW side of the lease area. No Top soil & Mineral Reject dump is available	No mineral reject generated.
4c	Number of dumps within lease area and outside of lease area	1	1	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the ultimate pit limit	Outside the ultimate pit limit	NIL
4e	Number of active and alive dumps.	NIL	NIL	Overburden is backfilled in the mind out area
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	1	1	Overburden dump was in the NW side within the lease area was fully afforested
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed.	Garland drain Provided	NIL
4i	Length of Retaining wall or garland drain all along dumps	300*2*1 m	300*2*1 m	NIL
4j	Number of settling ponds	1	1	NIL

4k	Specific comments of inspecting officer on waste dump management	—	—	The wastedump and OB management is satisfactory.
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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.	Backfilling is proposed after full extraction of mineral from minedout benches.	Backfilling is carriedout after full extraction of mineral.	As proposed.
5b	Area under backfilling of mined out area	2.0962 ha	2.032 ha	Backfilled two levels in same area
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed.	Carriedout. Topsoil spread over backfilled area.	NIL
5d	Total area fully reclaimed and rehabilitated	2.096 ha during 2022-23.	2.032 ha during 2022-23.	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	The backfilling and reclamation is 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 the PMCP report on 29 /06/ 2023 for the year 2022=23.	NIL
6b	Area available for rehabilitation (ha) .	2.0962 Hc	2.032 Hc.	NIL
6c	afforestation done (ha).	1.5 Ha	1.9 Ha	NIL

6d	No. of saplings planted during the year	1500	1900	Saplings planted on the Backfilled area only
6e	Cumulative no .of plants	—	9339 saplings.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NA	NA	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2.0962 Ha	2.032 Ha	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.0962 Ha	2.032 Ha	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	1600 saplings	2600 saplings	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	Water reservoir proposed at the end of life of mine.
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	No waste land available.
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)	Yes, Proposed.	Quarterly monitoring done.	All parameters with in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	PMCP compliance is 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 done.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NA	NA	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Entire ROM consumed in captive cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes.	Carried out.	Top soil used for spreading on backfilled area.
8b	Concurrent use or storage of topsoil	Yes.	Carried out.	As proposed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	Entire OB is backfilled into workedout benches. No rejects generation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes.	Carried out.	Entire OB backfilled.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by backfilling & afforestation proposed.	Reclamation by backfilling & afforestation carried out.	As proposed.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The Area is devoid of any large trees. It contains thorny bushes, natural vegetation like grasses, wild shrubs grown during the monsoon.	Planted varieties of Trees like Neem, Pungan, Accacia, etc and other trees in the backfilled area.	Plantations carried out in the Backfilled area
8g	Survival rate	85%%	85%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Haul Road Water sprinkling carried out with Mobile water tanker having 12KL capacity	NIL

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	The aesthetic beauty in and around the mine is satisfactory.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Monthly returns and AR 2022-23.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Manager - D.Johnson. Mining Engineer - S.Vinay Geologist - P.Sarathbabu.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Covered under current Workings -17.124 ha Reclaimed /Rehabilitated -7.582 ha Used for Waste Disposal - 0.48 ha Occupied by plant, buildings, Roads etc - 0.23 ha. Others (green belt) - 19.288 ha residential, welfare buildings & Roads - 0.23 ha	NIL
9d	Scrutiny of Annual return on afforestation	Details given,	During the year 1900 saplings planted.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	NIL	No subgrade generation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	974600 tonnes.	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details given.	Ex.Mine Price & Cost of production - Rs..282.35	NIL
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs. 62571574	NIL
9k	Scrutiny of Annual return on mining machineries	Details given.	Back Hoe- 2.0.Cu.m - 2 no Back Hoe - 1.2Cu.m - 1 no Tipper - 18.0Cu.m - 5 no Diesel Generator- 82.5KWH - 1no Pump - 200 lmn-2no	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)	29/01/2024	25/03/2024		

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines