

**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 : 043 ) T.PHALTHURAJHEN  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Mr.Raja Ranjith Singh -General Manager. ( mines)  
Official with  
Designation
- (iv) Date of Inspection : 01/12/2022
- (v) Prev.inspection date : 31/08/2021

**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.makeash@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 correspondance** : Dalmia Cement (B) Ltd.  
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

## Mining Engineer

Name : S.RADAKRISHNAKANTH, Full Time  
 Qualification : BE (MINING)  
 Appointment/ : 04/06/2001  
 Termination date

## Geologist

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

## Manager

Name : R.KAMARAJ  
 Qualification : BE Mining Engineering  
 Appointment/ : 04/01/2016  
 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	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	Area-G1-61.365 ha	Area-G1-61.365 ha	The Entire lease hold area falls under 111, 211 & 221 Classification.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	All area explored under G1 category.
1e	Balance reserve as on 01/04/20	prode mineral reserve (111) - 1735631. Tons	prode mineral reserve (111) - 1735631. Tons	prode mineral reserve (111) - 1735631. Tons
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	N-7428 TO 7548, E-8136 TO 8300 & N-6914 TO 7199, E-7947 TO 8398.	N-7428 TO 7548, E-8136 TO 8300 & N-6914 TO 7199 E- 7947 TO 8398.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	TOP SOIL- 1 BENCH, OVERBURDEN-3 benches , Lst- 4 benches .	Top soil -1bench, overburden -3 Benches , Lst- 4 benches.	Nil
2c	Stripping ratio or ore to OB ratio	1;0.2	1:0.07	-
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	136,152 CU.M	52912. CU.M	LESS handled due to development in ML-2.

2f General remarks - - satisfactory.  
of inspecting  
officers on  
development of  
pit w.r.t. type  
of deposit etc

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	850713 MT.	799000 MT	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	0	0	-
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NOT PROPOSED.
3f	Quantity of sub grade mineral generation.	0-MT	0-MT	NO Subgrade is generated . Sub grade benches are submerged.
3g	Grade of sub grade mineral generation	SIO2-7.10-14.20, AL2O3-1.62-4.84. FE2O3-6.00-12.35 , CAO-35-45.4.	NA.	No subgrade is generated . sub grade benches are submerged under water logged area.
3h	Manual / Mechanised method adopted for segregating from ROM	mechanized.	mechanized.	As per proposed in SOM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	-

3j	Provision of drilling and blasting in mineral benches	For drilling ICM260 drill machine is used for Blasting, magazine for Explosives storage. ANFO Mixng shed & Road van for Explosives transporting from magazine to blasting site are available in Mines	for drilling CM341 Drill compressor is used for Blasting, magazine for Explosives storage. ANFO Mixng shed & Road van for Explosives transporting from magazine to blasting site are available in Mines	As per proposed in SOM.
3k	Provision of mining machineries in mineral benches	For Loading 30T classs Excavateor is used. For Transportation 25 cu.m taurs tippers are used	For Loading 30T classs Excavateor is used. For Transportation 25 cu.m taurs tippers are used	As per proposed in SOM.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 6M, Bench width-10 M.	Bench height -6M, Bench width-10 M.	As per proposed in SOM.
3m	Total area covered under excavation/pits	19.77 HA	19.77 HA	As per proposed in SOM.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.16	1:0.12	-
3o	Total area put in use under different heads at the end of year	61.365 HA	61.365 HA	As per proposed in SOM.
3p	Production of ROM mineral during the last five year period as applicable	2017-18-934954, 2018-19-992017, 2019-20-863949, 2020-21-465520, 2021-22-850713.	2017-18-593500, 2018-19-597400, 2019-20-568600, 2020-21-360900, 2021-22-799000.	Actual production is with in the proposed production.
3q	General remarks of inspecting officers on method of mining etc.	-	Actual producton is within the proposed production.	nil

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No separate dump for Top soil	No separate dump for Top soil	Top soil and overburden is backedfilled in limestone excavated area inside the Mines.
4b	Location of topsoil, OB and mineral reject dumps	OB dumpis located in the nonLimestone area- Westernside of the lease Area	OB dumpis located in the nonLimestone area- Westernside of the lease Area	OB dumpis located in the nonLimestone area-Westernside of the lease Area
4c	Number of dumps within lease area and outside of lease area	1 dump (within lease area)	1 dump (within lease area)	As per proposed in SOM.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western part of the lease.	Western part of the lease.	As per proposed in SOM.
4e	Number of active and alive dumps.	No active or alive dumps available.	No active or alive dumps available.	overburden soil is backedfilled in the mined out area.
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	1	1	Overburden dump was in the western side within the lease area.
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided	provided	Retaining wall and garland drainage are provided all along the overburden dump .
4i	Length of Retaining wall or garland drain all along dumps	700x2x1 (m)	700x2x1 (m)	provided.
4j	Number of settling ponds	1	1	settling pond constructed at pit Top.
4k	Specific comments of inspecting officer on waste dump management	-	-	Nil

## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	After Excavation of the limestone upto full Depth the overburden is dumped in the bottom over which the top soil is spread over the backfilling area.	Limestone is excavated upto the full depth and then backing is carried out.	As per proposed in SOM.
5b	Area under backfilling of mined out area	0- HA	0- HA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	After backling the overburden at the bottom of minedout area , top soil is spread over the top of the backed area.	After backling the overburden at the bottom of minedout area , top soil is spread over the top of the backed area asnd afforestation done	As per proposed in SOM.
5d	Total area fully reclaimed and rehabilitated	Total Area reclaimed- 26.210 ha	Total Area reclaimed- 26.210 ha	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	satisfactory.

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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	Submitted.
6b	Area available for rehabilitation (ha) .	1.2 HA (2021-22)	1.0 Ha (2021-22)	Total Area reclaimed-26.21 ha.
6c	afforestation done (ha).	1.2 ha (2021-22)	1.0 Ha (2021-22)	saplings planted only in the backfilled Area only.

6d	No. of saplings planted during the year	1200 saplings (2021-22).	1200 saplings (2021-22).	saplings lanted only in the backfilled area only.
6e	Cumulative no .of plants	NA	42391 Saplings ( up to march 2022)	saplings planted on the backfilled area and wihin & outside lease area.
6f	Any other method of rehabilitation	plantaion on the backfilled area.	plantaion on the backfilled area.	backfilling and plantation on the backfilled area.
6g	Cost incurred on watch and care during the year	NIL	NIL	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	Total area reclaimed 26.26 ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	Afforestation of back filled area-1200 saplings.	Afforestation of back filled area-1200 saplings.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Reclamation & rehabilitation doing by backfiling with overbuden and plantion Making water reservoir will be done at the end of the mine , if non backed area available.	Reclamation & rehabilitation doing by backfiling with overbuden and plantion Making water reservoir will be done at the end of the mine , if non backed area available.	Reclamation & rehabilitation doing by backfiling with overbuden and plantion at present.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	PMCP returns prepared &duly submitted	PMCP returns prepared &duly submitted	Reclamation by backfilling.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No waste land available within the lease area	No waste land available within the lease area	No waste land available within the lease area



6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	No waste land available within the lease area.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	No waste land available within the lease area.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	PMCP measures found satisfactory.	No comments.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	850713 Tonnes	799000Tonnes	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	No comment.
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	Not applicable
7d	Any beneficiation process at mines	NA	NA	NA.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	satisfactory.

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Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil is handled separately and spread on the top surface of the backfilled area over which Plantion done.	Top soil is handled separately and spread on the top surface of the backfilled area over which Plantion done.	no comments.
8b	Concurrent use or storage of topsoil	NA	NA	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	NA-ONLY BACKFILLING WITH OVERBURDEN.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden materialis used for backfilling of the mined out area.	Overburden materialis used for backfilling of the mined out area.	Overburden materialis used for backfilling of the mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by backfilling & Afforestation	Reclamation by backfilling & Afforestation	Reclamation by backfilling & Afforestation
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, naturals vegetains like gresses, wild shrubs grown during the monsoon	planted varieties of tree like Neem ,, pungan, accacia etc and other trees in the backfilled area.	plantation carried out in the backfilled area.
8g	Survival rate	90%	90%	90%
8h	Water sprinkling on roads to control airborne dust	Haul roads water sprinkling is carried out by using 12KL water tanker	Haul roads water sprinkling is carried out by using 12KL water tanker	Haul roads water sprinkling is carried out by using 12KL water tanker

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

### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Prepared & duly submitted	Prepared & duly submitted	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	mines mnager shri.Johnson D , mining Engineer shri.K.karuppa samy ,Geologist in- charge , Abani kumar pathy .	mines mnager shri.Johnson D , mining Engineer shri.K.karuppasamy ,Geologist in-charge , Abani kumar pathy .	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	lease area utilization at the end of FY 21-22.	Already Explored & (1) abandoned by opencast working -0 ha , (11) covered under current working -19.77 ha , (111)Reclaimed /rehabilitated -26.21 ha , (1v) used for waste disposal -6.34 ha (V) Occupied by plant and building residential., welfare building & Roads -0.24 ha , (vi)other purpose , ( Green belt, area, non mineral bearing land for future dumps, Afforestation, Infrasture)-8.805. ha	No comments.
9d	Scrutiny of Annual return on afforestation	no.of trees planted the within the lease area during FY21- 22-1200. SURVIVAL RATE- 90 %	-	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	mineral reject - generated -0 tonnes, grate -high ferruginous (medium grade)	-	no sub grade is generated .Subgrated benches are submerged under water water logged area..

9f	Scrutiny of Annual return on ROM stock and/or graded ore	(a) open cast working- production- 850,713 Tonnes , (B) Under ground water working production - Nil , (c) Dump working - production- Nil	799000 Tonnes.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price- rs 259.83 , cost of production-Rs- 259.89 /	-	Nil
9h	Scrutiny of Annual return on fixed assets	-	-	Nil
9k	Scrutiny of Annual return on mining machineries	-	back hoe with bucket 2.0 cu. m-2 nos , back hoe with breaker attached -1 no , Dozer- 165 HP-1 no , Air compressor-460 CFM-1 NO , TIPPER- 25CU.m-19 NO , DIESEL DRIVEN- 1NO. PUMP- - ELECTRICAL DRIVEN-1 no , WATER TANKER -12kl-1no E-van-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)	14/12/2022			

**Date :**

**(T.PHALTHURAJHEN)**

Indian Bureau of Mines