

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri S.MAKESH,SR.GM (MINES) & E.VASUDEVAN,AGM(MINES)
Official with
Designation
- (iv) Date of Inspection : 30/10/2019
- (v) Prev.inspection date : 13/03/2019

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 : R. A. KRISHNAKUMAR
 Executive Director Dalmia
 cements(B) Ltd.,
 Dalmiapuram TIRUCHIRAPALLI
 TAMIL NADU
 Phone: 04329-294632
 FAX : 04329-235111

Mining Engineer

Name : E.VASUDEVAN, Full Time
 Qualification : B.E (MINING), MBA
 Appointment/ : 03/12/2012
 Termination date

Geologist

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

Manager

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

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/02/1998
		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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	The lease area fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	Area G1-70.01.0	Area G1-70.01.0	The lease area fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	No Exploration proposed during the Year 18-19
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	The lease area fully explored under G1 level
1e	Balance reserve as on 01/04/20	-----	111 - 8850884 Tons 211 - 5141216 Tons 221 - 3491428 Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	----	The geology, exploration found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working as single pit, proposed 4th & 5th bench	Working as single pit, proposed 4th & 5th bench	As per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No top soil and Overburden
2c	Stripping ratio or ore to OB ratio	NIL	NA	No Presence of OB
2d	Quantity of topsoil generation in m3	Nil	Nil	no topsoil generation.
2e	Quantity of overburden generation in m3	NIL	NA	No overburden generation

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	Development of pit found systematic
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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	1051079 M	781957 MT	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM is used
3d	Quantity of mineral reject generation	NIL	NA	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	Entire ROM is used
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	SIO2 7.10 - 8.20 AL2O3 2.25 - 3.70 3.70 FE2O3 8.10 - 12.35 CAO 42.10 - 45.40	SIO2 7.10 - 8.20 AL2O3 2.25 - 3.70 FE2O3 8.10 - 12.35 CAO 42.10 - 45.40	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NA	Entire ROM is transported to cement plant
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	Bbeneficiation is nor required

3j	Provision of drilling and blasting in mineral benches	For Drilling ICM260 drill machine is used	For Drilling ICM260 drill machine is used	As per proposal
3k	Provision of mining machineries in mineral benches	Rock breaker, shovel and dumpers are used for Transportation	Rock breaker, shovel and dumpers are used for Transportation	As per proposed in SOM
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Ht - 6 m Width - 15 m	Ht - 6 m Width - 15 m	Bench height maintained as per the proposal
3m	Total area covered under excavation/pits	53.23 H.a	53.23 H.a	NIL
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL	No Presence of OB
3o	Total area put in use under different heads at the end of year	70.01 H.a	70.01 H.a	As per proposed in SOM
3p	Production of ROM mineral during the last five year period as applicable	2015-16 796825 2016-17 798800 2017-18 796628 2018-19 1051079	2015-16 796900 2016-17 794800 2017-18 779700 2018-19 781957	Production are within the limit
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	method of mining is 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)	NIL	NA	No topsoil or OB generation
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	NIL

4c	Number of dumps within lease area and outside of lease area	1 (within lease area)	1 (within lease area)	As per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern part of the lease	Southern part of the lease	As per proposal
4e	Number of active and alive dumps.	1	1	As per proposal
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	1	1	As per proposal
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NANIL	
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	-----	----	No waste dump generation

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	NA	No waste material is available for backfilling
5b	Area under backfilling of mined out area	NIL	NA	No waste material is available for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No topsoil is available for backfilling

5d	Total area fully reclaimed and rehabilitated	NIL	NA	No waste material is available for backfilling
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	---	Entire ROM is used and no topsoil and OB, hence the back filling does not arise.

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 in time
6b	Area available for rehabilitation (ha) .	NIL	NA	No waste material is available for backfilling- reclaimed & Rehabilitation
6c	afforestation done (ha).	0.10	0.10	As per proposal
6d	No. of saplings planted during the year	150	150	As per proposal
6e	Cumulative no .of plants	NA	NIL	NIL
6f	Any other method of rehabilitation	NIL	NA	No other specific method of rehabilitation
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	No backfilling proposed	No backfilling proposed	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	Mining is in progress in the lease area. No area is completely mined out for reclamation

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	The excavated area could be used as reservoir at the end of the mine	The excavated area could be used as reservoir at the end of the mine	As per proposal
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	No waste land available within the lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	No waste land available within the lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	No waste land available within the lease area
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to be carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	As per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP measures found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1051079	781957	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	nil	NA	Entire ROM is being used
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Entire ROM is being used for manufacturing of cement

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No topsoil is present
8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	No waste generation
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	No Top soil and OB generation

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	After mining is completed, the entire lease area will be converted into water reservoir.	After mining is completed, the entire lease area will be converted into water reservoir.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	150 nos. per year	150 nos. per year	The lease was advise to plant more trees
8g	Survival rate	85%	85%	---
8h	Water sprinkling on roads to control airborne dust	Provided	Provided	Water sprinkling carried out by water tankar.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	---	aesthetic beauty in and around is found good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	yes	AR-2017-18 Submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	--	Lessee advised to furnished details in AR 2018-19
9d	Scrutiny of Annual return on afforestation	---	150 sapling	150 sapling

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NIL	No mineral reject generation
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Production of ROM checked	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	YES	----	Details given in AR2017-18
9h	Scrutiny of Annual return on fixed assets	GIVEN	Front end loader-4, Dozer 179 HP-1 Nos, Blast Host driller 115mm-1 Nos	DEPLOYED OF MACHINE FOUND
9k	Scrutiny of Annual return on mining machineries			

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines