

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TCR/LST-1, MDS

Mine code : 38TMN14014

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.E.Vasudevan,AGM (mines) & Shri. RajaRanjit Singh
Official with
Designation
- (iv) Date of Inspection : 22/02/2020
- (v) Prev.inspection date : 02/05/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KONVANDANAKURCHI(GO.2688**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUCHIRAPALLI
- Village : KOVANDANAKURCHI
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329 - 235111
- E-mail : s.makesh@dalmiacement.com
- Phone : 04329-235459, 9865165326
- (f) Police Station : DALMIAPURAM
- (g) First opening date : 01/07/1950
- (h) Weekly day of rest : SUN
2. Address for : DALMIA CEMENT (BHARAT) LIMITED
correspondance DALMIAPURAM-621651
3. (a) Lease Number : TMN0106
- (b) Lease area : 25.91
- (c) Period of lease : 20
- (d) Date of Expiry : 18/06/2006
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 : M.R.Raja Ranjith Singh, Full Time
 Qualification : B.E. Mining Engineering
 Appointment/ : 03/12/2012
 Termination date

Geologist

Name : N.Karthikeyan, Full Time
 Qualification : MSc., (Applied Geology)
 Appointment/ : 03/12/2012
 Termination date

Manager

Name : M R RAJA RANJITH SINGH
 Qualification : B.TECH-MINING, FIRST CLASS CERTIFICATE
 Appointment/ : 11/03/2013
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	23/07/2003
		Modif.of approved Mining Plan	06/02/2004
		Renewal under rule 24 MCR1960	06/02/2004
		Mining Scheme rule 12 MCDR1988	18/03/2008
		Mining Scheme rule 12 MCDR1988	02/04/2014
		MP review under 17(1) MCR 2016	18/12/2018
		MP modif under 17(3) MCR 2016	29/05/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	44 Nos of BH drilled
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine is fully developed under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	Mine is fully developed under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine is fully developed under G1 level
1e	Balance reserve as on 01/04/20	111-69551306 221-62970263	111-69551306 221-62970263	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	----	Geology, exploration of the mine found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The working faces of existing benches shall advance further towards lateral as well as vertical direction to exploit the limestone at its optimal.	As per the proposal, mining activities are carried out.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	No top soil & Overburden is available
2c	Stripping ratio or ore to OB ratio	NIL	NA	No top soil & Overburden is available

2d	Quantity of topsoil generation in m3	NIL	NA	No top soil & Overburden is available
2e	Quantity of overburden generation in m3	NIL	NA	No top soil & Overburden is available
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	-----	Development of pit is found satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 pits	3 pits operated	As per the proposal
3b	Quantity of ROM mineral production proposed	Limestone & Marl -2018-19 =1998738tonnes 2019-20=1999995tonnes	2018-19= 1637800 tonnes. 2019-20=1284300 tonnes (up to Jam 2020)	As Marl permit was not issued by State Govt, Marl was handled as Limestone
3c	Recovery of sailable/usable mineral from ROM production	ROM is suitable for cement grade.	ROM is well utilized and managed by blending the limestone from other own captive mines.	NIL
3d	Quantity of mineral reject generation	NIL	NA	No subgrade is generated
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	No subgrade is generated
3f	Quantity of sub grade mineral generation.	NIL	NA	No subgrade is generated
3g	Grade of sub grade mineral generation	NIL	NA	No subgrade is generated
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	NA	No subgrade is generated

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No subgrade is generated
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Drilling and blasting done
3k	Provision of mining machineries in mineral benches	Proposed	As per the proposal	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 meters	7.5 meters	NIL
3m	Total area covered under excavation/pits	Size of Pit 1- 238 m x 236 m x 32.7 m Size of Pit 2- 1389 m x 406m x 43.15m Size of Pit 3- 722 m x 265m x 42.5m Size of Pit 4- 606 m x 335m x 49 m	102.239 ha is covered under excavation	NIL
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NA	Overburden does not exist
3o	Total area put in use under different heads at the end of year	Area under Mining - 102.24 Ha, Plant, Buildings - 1.07 Ha Roads - 0.55 Ha Green Belt - 21.55 Ha Others - 40.595 Ha	Area under Mining - 102.24 Ha, Plant, Buildings - 1.07 Ha Roads - 0.55 Ha Green Belt - 21.55 Ha Others - 40.595 Ha	NIL

3p	Production of ROM mineral during the last five year period as applicable	Year Proposed	Year Actual		NIL
		2014-15	2014-15	1679700	
		1982829	2015-16	1800400	
		2015-16	2016-17	1975100	
		1996187	2017-18	1988800	
		2016-17	2018-19	1637800	
		1984382	2019-20	1284300 (up to	
		2017-18	Jam 2020)		
		1990590			
		2018-19			
		1998738			
		2019-20			
		1999995			
3q	General remarks of inspecting officers on method of mining etc.	---	----		Method of mining 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 top soil generation
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	No No topsoil and OB generation
4c	Number of dumps within lease area and outside of lease area	6 dumps	6 dumps are maintained within the lease hold area	nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	NIL
4e	Number of active and alive dumps.	6	6 dumps are alive	Existing dump are active & alive
4f	Number of dead dumps.	NIL	NA	NIL
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain are made all along the dump	Garland are maintained	NIL

4i	Length of Retaining wall or garland drain all along dumps	Garland= 350 meters	Garland= 350 meters	NIL
4j	Number of settling ponds	3 Nos	3 Nos	NIL
4k	Specific comments of inspecting officer on waste dump management	---	---	No waste generation, Total ROM used.

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	NIL
5b	Area under backfilling of mined out area	NIL	NA	Backfilling does not arise
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	Na	No top soil generation
5d	Total area fully reclaimed and rehabilitated	NIL	na	No reclaimed & rehabilitated at this stage
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	---	Backfilling, reclamation does not arise at this stage

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	PMC submitted on 11.07.2019

6b	Area available for rehabilitation (ha) .	NIL	NA	Mining is in progress
6c	afforestation done (ha).	0.5 Ha was proposed for plan period 2018-19	1120 Plantation done outside lease area in 1 Ha.	Survival rate is 90%
6d	No. of saplings planted during the year	500 saplings	1000 Plantation done	NIL
6e	Cumulative no .of plants	----	28171 saplings planted till date	NIL
6f	Any other method of rehabilitation	NIL	NA	28171 saplings planted till date
6g	Cost incurred on watch and care during the year	NIL	NA	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	Mining is in progress
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL
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	NIL	NA	Mining is in progress

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 is within lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	M/s.ITC labs, Chennai is engaged for monitoring Environmental data on a Quarterly basis	Data maintained
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	NIL	NIL	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.	NIL	NIL	NIL

7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	All ROM use for cement manufacturing

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No top soil generation
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 OB generation
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	No top soil & OB generation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	28171 saplings planted till date	NIL
8g	Survival rate	90%	90%	NIL

8h	Water sprinkling on roads to control airborne dust	Using water tanker	12KL water tanker is used for water sprinkling	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	----	aesthetic beauty in and around mines area is found satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Information furnished	Submitted in time	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished	M R Raja Ranjith Singh Mining Engineer N.Karthikeyan - Geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information furnished	Area under Mining - 102.24 Ha, Plant,Buildings - 1.07 Ha Roads - 0.55 Ha Green Belt - 21.55 Ha Others - 40.595 Ha	Part-I Sl.No.12
9d	Scrutiny of Annual return on afforestation	Information furnished	1000 Plantation done	Part-I Sl.No.12
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information furnished	No mineral reject generation	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information furnished	No sub grade	Part-VI, Sl.No.2

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Captive use .	PART - V (General Geology & Mining) Sl.No.5
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs. 27633741	PART III, Sl.No. 2 (Royalty and Rents)
9k	Scrutiny of Annual return on mining machineries	Information furnished	BACK HOE -3 PUMPS (ELEC.)-3 DOZER -3 TIPPER -23 BACK HOE-6	PART - V (General Geology & Mining) Sl.No.5

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

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines