

**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 : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : M R Raja Ranjith Singh - DGM Mines, B Radhakrishnakan
Official with
Designation
- (iv) Date of Inspection : 23/11/2020
- (v) Prev.inspection date : 22/02/2020

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	10 boreholes proposed for the year 2019-20 to prove the non-existence of minerals in the proposed dump area on the footwall side of mines.	As dumping is yet to begin in the earmarked area, drilling has not been carried out yet.	Entire area already fully explored. Boreholes to prove non-existence of minerals in proposed dump area to be drilled before commencement of dumping.
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Mine already fully explored.
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	NA	Nil	Entire area is already fully explored
1e	Balance reserve as on 01/04/20	-	Category Limestone Marl Proved Mineral Reserve (111) 35749427 32236679 Pre Feasible Mineral Resources (221) 34511184 28459079	Nil
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	Pit No 2	Pit No 2	As proposed

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top Soil Available in the mine No OB/SB/IB planned for the year	No Top Soil/OB/SB/IB Benches mined	As per plan
2c	Stripping ratio or ore to OB ratio	1:0	1:0	As per plan
2d	Quantity of topsoil generation in m3	Nil	Nil	As per plan
2e	Quantity of overburden generation in m3	Nil	Nil	As per plan
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	As per plan
3b	Quantity of ROM mineral production proposed	19,99,995 te (Lst+Marl)	15,65,200 te (Lst+Marl)	As Marl permit was not issued by State Govt, Marl was handled as Limestone
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	ROM is well utilized and managed by blending the limestone from other own captive mines.
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject is generated
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	No mineral reject is generated
3f	Quantity of sub grade mineral generation.	Nil	Nil	No subgrade is generated

3g	Grade of sub grade mineral generation	Nil	Nil	No subgrade is generated
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	No subgrade/mineral reject is generated
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	Proposed for need-based use	Not carried out	Non-conventional mining without drilling & blasting carried out.
3k	Provision of mining machineries in mineral benches	Proposed	S.No. Equipments No.of Unit Horse Power 1 Rock Breakers 6 tons breaker mounted on 60 ton class hydraulic excavator 6 320 2 Hydraulic Excavator 30 / 38 MT class backhoe excavator of 2.0m ³ bucket capacity. 3 240 3 Dozer 1 165 4 Water Pump KSB Centripugal Pump 2 50 KSB Centripugal Pump 1 40 5 Transport Vehicles Contractor' Trucks Tat Ben & Ashok Leyland (Each 160 HP) 23 160	Machineries as proposed is deployed for mining operation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9m	9m	Suitable
3m	Total area covered under excavation/pits	109.967 ha (by the end of plan period i.e. 2023-24)	102.529 ha	Within limit

3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB/SB/IB excavated during the year as per plan
3o	Total area put in use under different heads at the end of year	Area under Mining - 109.967Ha Plant, Roads Buildings - 1.824 Ha Dumps - 16.32 Ha (by the end of plan period i.e. 2023-24)	Area under Mining - 102.529Ha Plant, Roads Buildings - 1.624 Ha Dumps - 6.76 Ha	Within limits
3p	Production of ROM mineral during the last five year period as applicable	Year Proposed 2015-16 1996187 2016-17 1984382 2017-18 1990590 2018-19 1998738 2019-20 1999995	Year Actual 2015-16 1800400 2016-17 1975100 2017-18 1988800 2018-19 1637800 2019-20 1565200	Production for the last 2 years less due to poor cement market conditions.
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)	NA	NA	No Top Soil/OB/Mineral Rejects planned or generated during the year
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	No Top Soil/OB/Mineral Reject planned or generated during the year
4c	Number of dumps within lease area and outside of lease area	6 dumps	6 dumps	Within the lease hold area

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As proposed
4e	Number of active and alive dumps.	6	6	As per proposal
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.	Garland drains proposed	Garland drains maintained	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	350 mts length of Garland drain already laid & periodically maintained
4j	Number of settling ponds	3 nos	3 nos	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

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	No area proposed or available for backfilling
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	Nil	No reclamation or rehabilitation at this stage

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 on 01.07.2020
6b	Area available for rehabilitation (ha) .	Nil	Nil	Mining is in progress
6c	afforestation done (ha).	2.3 Ha	1.0 Ha	Violation issued for inadequate afforestation
6d	No. of saplings planted during the year	4600 nos	3200 nos	Violation issued for inadequate afforestation
6e	Cumulative no .of plants	-	30,371 saplings planted till date	Nil
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	No backfilling proposed	No Backfilling done	Mining is in progress
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	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	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)	Yes	Carried out quarterly	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation issued for inadequate afforestation

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 carried out	Entire ROM is sent to cement plant
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	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	-	-	Satisfactory

Environment :

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

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Mining is in progress
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	30371 saplings planted till date	Nil
8g	Survival rate	-	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	12 KL Water Sprinklers used for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Satisfactory

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part-I, Sl. 2	Manager M.R.RAJARANJITH SINGH Mining Engineer in charge M.R.RAJARANJITH SINGH Geologist in charge N.KARTHIKEYAN	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part-I, Sl. 12	Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 102.529 102.529 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 6.760 6.760 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 1.624 1.624 (vi) Other Purpose (Green Belt & Safety barrier) 0.000 55.092 55.092 (vii) Work done under progre	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part-V, Sec 4. Mining operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 700 (b) Outside lease area 2500 (ii) Species 90 (iii) Survival rate in percentage 90.00	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 Opencast 4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 1565200.000 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-mine price/Cost of Production = Rs 222.16	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Assest - Rs 27,94,48,015 2. Source of Finance (as at the end of the year) (Tips) (i) Paid up Share Capital (in `) 3140452670 (ii) Own Capital (in `) 0 (iii) Reserve & Surplus (All Types) 88544303547 (iv) Long Term loans outstanding 46655255396	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 2.100 CUM 3 Electrical Opencast PUMPS (ELEC.) 2000.000 L/MN 3 Electrical Opencast DOZER 165.000 HP 1 Non Electrical Opencast TIPPER 14.000 CUM 23 Non Electrical Opencast BACK HOE 2.700 CUM 6 Non Electrical Opencast	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)	12/01/2021	MCDR17	Rule 11(1)	12/01/2021

Date :

(Matiul Islam)

Indian Bureau of Mines