

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TCR/LST.94-MDS

Mine code : 38TMN14072

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr S Makesh - Sr General Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 29/10/2019
- (v) Prev.inspection date : 14/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALLAKUDI 10.54 HA**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : TIRUCHIRAPALLI
- Village : KALLAKUDI
- Taluka : LALGUDI
- Post office : KALLAKUDI
- Pin Code : 621651
- FAX No. : 04329235111
- E-mail : t.venkatesan@dalmiacement.co
- Phone : 04329235459
- (f) Police Station :
- (g) First opening date : 06/12/2001
- (h) Weekly day of rest : SUN
2. Address for : DALMIAPURAM, TIRUCHY-621651
correspondance
3. (a) Lease Number : TMN0104
- (b) Lease area : 10.54
- (c) Period of lease : 50
- (d) Date of Expiry : 31/03/2030
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : DALMIA CEMENT (B) LTD.
M/S. DALMIA CEMENT (B) LTD
DALMIAPURAM-621651 TRICHY.
ARIYALUR TAMIL NADU
Phone:04329-35123.
FAX :

Owner : DALMIA CEMENT (B) LTD.
DALMIAPURAM TRICHT-621651.
TIRUCHIRAPALLI TAMIL NADU
Phone:
FAX :

Agent : R.A.KRISHNAKUMAR
M/s Dalmia Cement(B) ltd.,
Dalmiapu Trichy, Kallakudi
ARIYALUR TAMIL NADU
Phone: 04329-235123
FAX : 04329-235111

Manager

Name : N.KARTHIKEYAN
Qualification : M.Sc GEOLOGY
Appointment/ : 04/01/2016
Termination date

Manager

Name : B.RADHAKRISHNA KANTH
Qualification : B.E MINING
Appointment/ : 04/01/2016
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 02/04/2014
Plan/Scheme of Mining MP review under 17(1) MCR 2016 10/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NII	NA	Lessee area fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Lessee area fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Lessee area fully explored under G1 level
1e	Balance reserve as on 01/04/20	-----	MARL	Limestone NIL
			111 384466 266575 211 1159729 1461073 221 1365768 1578706	
1f	General remarks of inspecting officers on geology, exploration etc	----	---	Lessee area fully explored under G1 level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area			
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	Overburden does not occur
2c	Stripping ratio or ore to OB ratio	NIL	NA	No topsoil, overburden
2d	Quantity of topsoil generation in m3	NIL	NA	There is no topsoil generation .

2e	Quantity of overburden generation in m3	NIL	Na	There is no OB & topsoil generation .
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	one	one	as per the proposal one pit under operation
3b	Quantity of ROM mineral production proposed	2018-19 160258	2018-19 - 51000	nil
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 mineral reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	ROM is well utilized and managed by blending the limestone from other own captive mines.
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	nil	NA	Total ROM transported to factory
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No beneficiation

3j	Provision of drilling and blasting in mineral benches	nil	NA	ROCK BRAKER USED
3k	Provision of mining machineries in mineral benches	1) L&T CK 300 Model Hydraulic Excavator Bucket capacity 2.6. Cu.m - 1 Nos 2) Atlas Copco Breaker HB 5800- 1 Nos 3) L&T PC 300 Model Hydraulic Excavator Bucket capacity 2.1. Cu.m - 1 No 4) Komatsu D50 - 1 No 5) KSB Centripugal Pump 50 HP - 1 Nos 6) Contractor' Trucks Tat Benz (Each 110 HP) - 3 Nos	Machineries as proposed is deployed for mining operation	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	No deviation height of the bench is maintained
3m	Total area covered under excavation/pits	Size of Pit 1- 181 × 137.5× 31.5m	4.280 ha is covered under excavation	As per the proposal
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NA	Overburden does not exist, entire ROM used.

3o	Total area put in use under different heads at the end of year	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads - 0.14 Ha Green Belt - 4.404 Ha Others - 1.641 Ha	Area under Mining - 4.280 Ha Plant,Buildings - 0.220 Ha Roads - 0.14 Ha Green Belt - 4.404 Ha Others - 1.641 Ha	-	As per the proposal
3p	Production of ROM mineral during the last five year period as applicable	2014-15 102130 2015-16 102140 2016-17 105854 2017-18 105680 2018-19 160258	2014-15 102130 2015-16 102140 2016-17 105854 2017-18 105680 2018-19 160258	111121 110983 115994 105300 51000	during the year less production
3q	General remarks of inspecting officers on method of mining etc.	----	-----		method of mining is found to be 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, OB & mineral reject
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	No topsoil, OB & mineral reject
4c	Number of dumps within lease area and outside of lease area	NIL	NA	No topsoil, OB & mineral reject
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	No topsoil, OB & mineral reject ,hence dump doesnot arise.
4e	Number of active and alive dumps.	NIL	NA	No dump since there is no topsoil, OB & mineral reject

4f	Number of dead dumps.	NIL	NA	No dump since there is no topsoil, OB & mineral reject
4g	Number of dumps established.			
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	No dump since there is no topsoil, OB & mineral reject
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	No dump since there is no topsoil, OB & mineral reject
4j	Number of settling ponds	NIL	NA	NIL
4k	Specific comments of inspecting officer on waste dump management	-----	-----	There is no waste 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	Mine is active no backfillin propposal becaude there is no topsoil, OB & mineral reject
5b	Area under backfilling of mined out area	NIL	NA	doesnot arise
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	NA	No topsoil Occurrences
5d	Total area fully reclaimed and rehabilitated	NIL	NA	reclaimed & rehabilitated doesnot arise since there is no topsoil, OB & mineral reject
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	No backfilling, reclamation proposal

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 the PMCP every year. For the year submitted on 25.02.2019
6b	Area available for rehabilitation (ha) .	NIL	NIL	Mining is in progress
6c	afforestation done (ha).	1.10 Ha was proposed for plan period 2018-23	1.10 Ha was proposed for plan period 2018-23	Plantation done outside lease area
6d	No. of saplings planted during the year	given	200 saplings	nil
6e	Cumulative no .of plants	Given	2980 saplings planted till date	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	Not given
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	No backfilling proposed
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	No backfilling proposed
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	No waste land is within lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	No waste land is within lease area
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	As per the proposal monitoring carried out
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	NA	The total ROM is used.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	The total ROM is used
7c	Different grade of mineral sorted out at mines.	NIL	NA	The total ROM is used
7d	Any beneficiation process at mines	NIL	NA	The total ROM is used

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	---	Conservation was found satisfactory
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	No top soil generatio.
8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generatio.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	No generation of Top soil and wast
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	No generation of Top soil and wast
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	No generation of Top soil and wast
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200	170	Advise to plan more tree
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	water tanker	12KL water tanker is used for water sprinkling	Found water tanker is used for water sprinkling

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	aesthetic beauty in and around mines areas found good
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining engineer- B.Radhakrishna Kanth and Geologist - N.Karthikeyan	Found as per the record submit to IBM
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part-I para 11 &12	As per the proposal	NIL
9d	Scrutiny of Annual return on afforestation	Given in Part-V para- 4.4	150 tree as per the proposal	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given in Part-V para 4.2	No minral rject prposed	as per the proposal
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given in Part-VI achieved 51000 tones of Limestone	Proposed in approved pla 160258 tones of Limestone	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given in Part-VI Para -4.	Sale value Mine price- Rs.00	It is captive consumption.
9h	Scrutiny of Annual return on fixed assets	Given in Part-III in Royalty and rent. fixed assets Rs.19539249	Found as per the returns.	NIL

9k	Scrutiny of Annual return on mining machineries	Part-V Para 5.0 Back hole	As per the proposals	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

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines