

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TCR/LST-5(a)/MDS

Mine code : 38TMN24002

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : TC.Gopi Rajesh Kumar -Manager-Mines
Official with
Designation
- (iv) Date of Inspection : 12/02/2021
- (v) Prev.inspection date : 30/10/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMINABAD(KAIRULABAD)**
- (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 : AMINABAD,
Taluka : ARIYALUR
Post office : ARIYALUR
Pin Code : 621704
FAX No. :
E-mail : s.makesh@dalmiacement.com
Phone :
- (f) Police Station : ARIYALUR
- (g) First opening date : 03/10/1970
- (h) Weekly day of rest : SUN
2. Address for : DALMIA CEMENT (BHARAT) LIMITED
correspondance Dalmiapuram
3. (a) Lease Number : TMN0934
(b) Lease area : 2.25
(c) Period of lease : 30
(d) Date of Expiry : 13/08/2034
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 : E.VASUDEVAN, Full Time
 Qualification : B.E (MINING), MBA
 Appointment/ : 03/12/2012
 Termination date

Geologist

Name : S SELVAKUMAR, Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 03/12/2012
 Termination date

Manager

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

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20/04/2000
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31/12/2003
		Mining Scheme rule 12 MCDR1988	18/03/2008
		Mining Scheme rule 12 MCDR1988	04/07/2013
		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	Nil	Nil	Mine already fully explored to G-1 level
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Mine already fully explored to G-1 level
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	Nil	Nil	Nil
1e	Balance reserve as on 01/04/20	-	Proved Mineral Reserve (111) - 5003247 Tons Feasible Mineral Resources (211) - 14777283 Tons Inferred Mineral Resources (333) - 2621246 Tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The mine is already fully explored to G-1 level & there is no backlog w.r.t. exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Western & Central Pits	Western & Central Pits	As per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top Soil / Overburden envisaged	No Top Soil / Overburden encountered	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	-	-	The development of the pits was found to be satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	As per plan
3b	Quantity of ROM mineral production proposed	10,49,581 MT	10,79,100 MT	2.8% higher actual production than proposed quantity
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	As per plan
3d	Quantity of mineral reject generation	Nil	Nil	As per plan
3e	Grade of mineral rejects generation and threshold value declared.	> 6% of Fe in limestone	No reject generation	Nil
3f	Quantity of sub grade mineral generation.	2,94,904 MT	Nil	No sub-grade encountered
3g	Grade of sub grade mineral generation	SiO2 7.10 - 8.20 AL2O3 2.25 - 3.70 FE2O3 8.10 - 12.35 CAO 42.10 - 45.40	No sub-grade encountered	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	No sub-grade encountered	Nil

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	Carried out	As proposed
3k	Provision of mining machineries in mineral benches	Proposed	Hydraulic Excavators of 2.7 m ³ & 2.1 m ³ & loaders of 4 m ³ bucket capacity; Taurus tippers of 31 ton capacity	As per plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 m	5 m	Suitable
3m	Total area covered under excavation/pits	71.8 H.a	71.8 H.a	As per plan
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	As per plan
3o	Total area put in use under different heads at the end of year	95.34.5 H.a	95.34.5 H.a	As per plan
3p	Production of ROM mineral during the last five year period as applicable	2014-15 1091775 2015-16 1098175 2016-17 1084350 2017-18 1083639 2018-19 1048874 2019-20 1049581 (tonnes)	2014-15 904800 2015-16 1092500 2016-17 1082600 2017-18 1035300 2018-19 1096000 2019-20 1079100 (tonnes)	2.8 % higher actual production during the year 2019-20 w.r.t. the proposed quantity
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found to be satisfactory.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No topsoil/OB/Mineral Rejects envisaged	No topsoil/OB/Mineral Rejects encountered	As proposed
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	Nil
4c	Number of dumps within lease area and outside of lease area	2 (within lease area)	2 (within lease area)	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern & Central part of the lease	Southern & Central part of the lease	As per plan
4e	Number of active and alive dumps.	1	1	As per plan
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	1	1	Southern dump
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Provided	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	400*2*1 (Mtr.)	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	The waste dump management was found to be 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	Nil	No waste material is available for backfilling

5b	Area under backfilling of mined out area	NA	NA	No waste material is available for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	No topsoil is available
5d	Total area fully reclaimed and rehabilitated	NA	NA	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Mining under progress. Mineral not exhausted yet. No material available for backfilling. Activities in line with the proposal.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.10 ha	0.10 ha	As per plan
6d	No. of saplings planted during the year	150 nos saplings proposed	150 nos saplings planted	As per plan
6e	Cumulative no .of plants	-	8,776 saplings planted till date	Planted both inside & outside the lease area
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	Nil	Nil	Mineral not exhausted yet. Mining still under progress.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	No material available for backfilling
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Water reservoir is planned to be left at the end of life of the mine	Mining still under progress. Mineral not exhausted yet.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	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

6p	Compliance of environmental monitoring (core zone and buffer zone)	To be carried out quarterly	M/s. ITC Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	Envt Monitoring data within prescribed limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance & Progressive Closure operations found to be satisfactorily in line with the approved plan.

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	As per plan
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	-	-	Mineral Conservation & Beneficiation issues found in line with the approved plan.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil envisaged	No topsoil encountered	As per plan

8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No overburden/waste rock/rejects/fines envisaged	No overburden/waste rock/rejects/fines encountered	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	Mining still under progress. Mineral not exhausted yet. Water reservoir proposed to be left at the end of mining.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	150 nos saplings proposed to be planted every year. 8,776 saplings planted till date both inside & outside the lease.	Nil
8g	Survival rate	85%	85%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around the 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	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 Shri. E. Vasudevan Mining Engineer in charge Shri. E. Vasudevan Geologist in charge Shri. S. Selvakumar	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings 71.800 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 1.380 (vi) Other Purpose (AFFORESTATION, FUTURE MINING) 22.165 (vii) Work done under progressive mine closure plan during the year 0.000	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 150 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 85.00	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 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 1079100.000 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 178.72/-	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Assets - Rs 7,31,11,629/-	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 2.700 CUM 1 Non Electrical Opencast BACK HOE 2.100 CUM 1 Non Electrical Opencast DOZER 171.000 HP 1 Non Electrical Opencast AIR COMPRESSOR 445.200 CUM/MN 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 1 Non Electrical Opencast OTHERS (NON-ELEC.) 7.500 4 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

Date :

(Matiul Islam)

Indian Bureau of Mines