

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. E.Vasudevan Asst.General Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 30/10/2019
- (v) Prev.inspection date : 23/02/2019

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 : 20
- (d) Date of Expiry : 29/03/2029
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	No Backlog	Fully explored under G1 level
1b	Exploration over lease area for geological axis 1 or 2	NIL	Fully explored under G1 level	Fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Not applicable	Fully explored under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Fully explored under G1 level
1e	Balance reserve as on 01/04/20	111 - 5971975 Tons 211 - 14887655 Tons 333 - 2621246 Tons	111 - 5971975 Tons 211 - 14887655 Tons 333 - 2621246 Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	-----	The geology, exploration is found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	NIL	NA	Only Production
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No presence of top soil /	No presence of top soil /	No deviation
2c	Stripping ratio or ore to OB ratio	NIL	NA	No Presence of OB
2d	Quantity of topsoil generation in m3	NIL	NA	No Top soil generation
2e	Quantity of overburden generation in m3	NIL	NA	No overburden generation during the proposed years

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	Development of pit found satisfactory
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 Nos	3 Nos	As per the proposal
3b	Quantity of ROM mineral production proposed	1098874 MT	1096000 MT	with in rthe limite
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NA	100% recovery, No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	> 6% of Fe in limestone	> 6% of Fe in limestone	As Per Proposed
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
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	SIO2 10.11 AL2O3 3.50 FE2O3 7.31 CAO 42.33	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	NIL

3j	Provision of drilling and blasting in mineral benches	For Drilling ICM260 drill machine is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	For Drilling ICM260 drill machine is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	NIL
3k	Provision of mining machineries in mineral benches	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurus tippers are used	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurus tippers are use	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Ht - 5 m Width - 15 m	Ht - 5 m Width - 15 m	NIL
3m	Total area covered under excavation/pits	71.8 H.a	71.8 H.a	NIL
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NA	Not applicable
3o	Total area put in use under different heads at the end of year	95.34.5 H.a	95.34.5 H.a	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14 1099855 2014-15 1091775 2015-16 1098175 2016-17 1084350 2017-18 1083639 2018-19 1098874	2013-14 766500 2014-15 904800 2015-16 1092500 2016-17 1082600 2017-18 1035300 2018-19 1096000	NIL

3q General remarks --- ---- method of mining
of inspecting officers on is found
method of mining satisfactory
etc.

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 and OB generation
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	No topsoil and OB generation
4c	Number of dumps within lease area and outside of lease area	1 (within lease area)	1 (within lease area)	As per proposed in SOM
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern part of the lease	Southern part of the lease	As per proposed in SOM
4e	Number of active and alive dumps.	1	1	As per proposed in SOM
4f	Number of dead dumps.	NIL	NA	NA
4g	Number of dumps established.	1	1	Southern part of the lease
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided	Provided	NIL
4i	Length of Retaining wall or garland drain all along dumps	400x2x 1 (Mtr.)	400x2x 1 (Mtr.)	NIL
4j	Number of settling ponds	NIL	NA	settling ponds not proposed
4k	Specific comments of inspecting officer on waste dump management	----	-----	waste dump management is found 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	Mineral is not full extraction
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.	---	----	No backfilling, reclamation 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	Annual report on PMCP submitted on time	NIL
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 proposed in SOM
6d	No. of saplings planted during the year	150	150	As per proposed in SOM
6e	Cumulative no .of plants	NIL	NA	NA
6f	Any other method of rehabilitation	NIL	NA	NA
6g	Cost incurred on watch and care during the year	NIL	NA	NA

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No backfilling proposed	No backfilling proposed	Mining is in progress in the lease area. No area is completely mined out for reclamation
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No backfilling proposed	No backfilling proposed	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 backfilled area	NIL	NA	NA
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 proposed in SOM
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	No wasteland available within the lease area	No waste land available within the lease area	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No waste land available within the lease area	No waste land available within the lease area	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No waste land available within the lease area	No waste land available within the lease area	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	To be carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	----	PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1098874	1096000	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	NA
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	----	----	No beneficiation process at mines

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	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	NIL
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	NIL
8g	Survival rate	----	-----	Aesthetic beauty in and around mines area is found satisfactory
8h	Water sprinkling on roads to control airborne dust			
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	yes	Submitted	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer =E. Vasudevan Geologist =S.Selvakumar	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the formate	NIL	NIL
9d	Scrutiny of Annual return on afforestation	Given in the formate	150 nos. Per year	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	No mineral reject generation
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the formate	Production during 2018-19 is 1096000 tonns the same send to factory	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex mine price	NIL
9h	Scrutiny of Annual return on fixed assets	Given in the formate	Reported nil	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the formate	As per the usage of mechineried , the same thing reproted	Yes reported accordingly

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