

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/PT/LST-30.MDS

Mine code : 38TMN24030

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr.J.Ravi (Sr.Manager), Mr.K.Elansurian (Sr.Manager)
Official with
Designation
- (iv) Date of Inspection : 03/01/2020
- (v) Prev.inspection date : 25/06/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALATHIYUR (N)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : PERAMBALUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 04329-248303
E-mail : alr@madras cements.co.in
Phone : 04329-248305, 248306
- (f) Police Station : DALAVOI
- (g) First opening date : 31/03/1995
- (h) Weekly day of rest : SUN
2. Address for : GENERAL MANAGER (MINES)
correspondance : MADRAS CEMENT LIMITED,
ALATHIYUR, DALAVOI, TEH-SENDURAI, DISTT- ARIYALU
3. (a) Lease Number : TMN0740
- (b) Lease area : 57.12
- (c) Period of lease : 30
- (d) Date of Expiry : 11/04/2029
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MADRAS CEMENTS LIMITED
 Auras Corporate Center Vth
 Floor, 98 A Dr.Radha
 Krishnan salai, Mylapore
 CHENNAI CITY TAMIL NADU
 Phone:044-28478666
 FAX :044-28478676

Owner : P.R.RAMA SUBRAMANYA RAJA
 AURAS CORPORATE CENTRE
 VFLOOR,98A,RADAKRISHNAN R
 MYLAPORE,CHENNAI CHENNAI
 CITY TAMIL NADU
 Phone: 044-8555815
 FAX : 044-830248

Agent : S SHANMUGAM
 Madras Cements Ltd, TALUKA-
 Sendurai ARIYALUR TAMIL
 NADU
 Phone: 04329-248305248306
 FAX : 04329-248303

Mining Engineer

Name : M.SURESH BABU,Full Time
 Qualification : B.E Mining Engineeing
 Appointment/ : 01/01/2012
 Termination date

Geologist

Name : J.RAVI,Full Time
 Qualification : M.Sc Geology
 Appointment/ : 16/03/2007
 Termination date

Manager

Name : BP.SRIKANTH
 Qualification : B.E Mining Engineering
 Appointment/ : 25/10/2018
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	06/01/1999
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	22/06/2004
		Mining Scheme rule 12 MCDR1988	28/08/2009
		Modif.approved Mining Scheme	08/10/2012
		Mining Scheme rule 12 MCDR1988	30/06/2014
		MP review under 17(1) MCR 2016	04/12/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Mine fully explored G-1 Level	9 borehole drilled with total meterage of 439.32 m
1b	Exploration over lease area for geological axis 1 or 2	NIL	Mine fully explored G-1 Level	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Mine fully explored G-1 Level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine fully explored G-1 Level
1e	Balance reserve as on 01/04/20	--	18,46,998	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	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 1, OB - 2, Mineral - 4	Topsoil - 1, OB - 2, Mineral - 4	Formed as per rule
2c	Stripping ratio or ore to OB ratio	1 : 0.25	1 : 0.67	As per Proposed production qty not achieved due to quality problem
2d	Quantity of topsoil generation in m3	NIL	NA	No topsoil generation
2e	Quantity of overburden generation in m3	----	----	development of pit is found satisfactory

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	As per proposal
3b	Quantity of ROM mineral production proposed	1,79,550	43,390	Total ROM is Used.
3c	Recovery of sailable/usable mineral from ROM production	1,79,550	43,390	nil
3d	Quantity of mineral reject generation	NIL	NA	No mineral reject generation, 100 % recovery
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	No mineral reject generation
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	Mechanised	Mechanised	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	Beneficiation Study is Not Required
3j	Provision of drilling and blasting in mineral benches	NIL	NA	NIL

3k	Provision of mining machineries in mineral benches	Shovel-1, Tipper-4,	Shovel-1, Tipper-4,	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 5m, Width - 6m	Height - 5m, Width - 6m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits	11.753	11.753	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.25	1 : 0.67	As per Proposed production qty not achieved due to quality problem.
3o	Total area put in use under different heads at the end of year	Minedout land - 11.753 Ha Dump- 3.76 Ha Greenbelt - 7.08 Ha Others- 4.717	Minedout land - 11.753 Ha Dump- 3.76 Ha Greenbelt - 7.08 Ha Others- 4.717	nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15 1,34,000 2015-16 73,000 2016-17 73,000 2017-18 73,000 2018-19 57,000 2019-20 Up to Dec-19 1,79,550	2014-15 1,01,283 2015-16 57,115 2016-17 51,566 2017-18 35,671 2018-19 8,997 2019-20 Up to Dec-19 43,390	NIL
3q	General remarks of inspecting officers on method of mining etc.	----	---	Method of mining is 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)	Topsoil are dumped separately	Topsoil are dumped separately	Separately stacked

4b	Location of topsoil, OB and mineral reject dumps	Topsoil ML-0 to ML-2 400 to 650	Topsoil ML-0 to ML-2 400 to 650	nil
4c	Number of dumps within lease area and outside of lease area	Top soil - 1	Top soil - 1	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Topsoil ML-0 to ML-2 400 to 650	Topsoil ML-0 to ML-2 400 to 650	No additional dump is proposed
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	1	1	Old dumps are stabilized.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	As per proposal
4i	Length of Retaining wall or garland drain all along dumps		350 x 3 x 2 mtrs---	Garland drain all along dump
4j	Number of settling ponds	1	1	Existing settling pond de-silted
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.	Mine not fully mines out	All minerals are mined & taken before starting of Backfilling	NIL
5b	Area under backfilling of mined out area	NIL	NA	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	YES	Top soil stock for future use of afforestation
5d	Total area fully reclaimed and rehabilitated	NIL	NA	No backfilling proposal during the year
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).	Submitted	Submitted	Submitted to IBM in time
6b	Area available for rehabilitation (ha) .	NIL	NA	Not at this stage
6c	afforestation done (ha).	NIL	0.22 h	NIL
6d	No. of saplings planted during the year	--	350	NIL
6e	Cumulative no .of plants	13,173	13,523	For entire mine area
6f	Any other method of rehabilitation	NIL	NA	No other method Rehabilitation
6g	Cost incurred on watch and care during the year	Rs.9,87,975	RS. 10,14,225	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	Not applicable	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Not applicable	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	Not applicable	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	Not applicable	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	Not applicable	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	Not applicable	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	Not applicable	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	Not applicable	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	YES	All the monitored values are within limit. Quarterly Reports submitted to IBM regularly

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	---	PMCP compliance & progressive closure operations is found satisfactory
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	Na	Total ROM send to factory
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	No Subgrade Mineral
7c	Different grade of mineral sorted out at mines.	NIL	NA	No Subgrade Mineral
7d	Any beneficiation process at mines	NIL	NA	No other Beneficiation process on mine
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Mineral conservation and beneficiation found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	Top soil not reported
8b	Concurrent use or storage of topsoil	NIL	NA	Top soil storage is for future use.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	Only backfilling is done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	Na	Backfilling is proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	Not at the stage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	13,173	13,173	NIL
8g	Survival rate	75 %	75 %	NIL
8h	Water sprinkling on roads to control airborne dust	prposed	Yes	Water sprinkling is being done
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	GIVEN	Submitted for the year 2018-19	MR &AR submitted in time

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Shri.Avvaru Gopi Sesi Kiran -Mining Engineer	Given in part-II Employed & Wages(I)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	Given in Part - i. Sl no.12	nil
9d	Scrutiny of Annual return on afforestation	Given in the format	350 plantation	Given in Part - i. Sl no.12
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	NIL	Given in Part - V. Sl no.4.2
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	No stock reported	Given in Part - VI. Sl no.1
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex mine price Rs.170/t, No sale value, since it is captive mines	Ex mine prise given in Part -VI (2.) and Cost of production Given in part -VII
9h	Scrutiny of Annual return on fixed assets	Given in the format	Not reported	Given in part -II
9k	Scrutiny of Annual return on mining machineries	Given in the format	Shaval-1 Tipper-4	Given in Part - V Sec - 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