

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

Mining Plan Modification REPORT

Chennai regional office

Mine file No : TN/ALR/LST-7/MDS

Mine code : 38TMN38010

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Rambabu, Mines Manager & Shri P Senthamilselvan,
Official with
Designation
- (iv) Date of Inspection : 06/10/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PUDUPALAYAM(NORTH)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : PUDUPALAYAM
- Taluka : ARIYALUR
- Post office : PUDUPALAYAM
- Pin Code :
- FAX No. : 04329-226005
- E-mail : Yadav_m@madrascements.co.in
- Phone : 04329-294400
- (f) Police Station : ARIYALUR
- (g) First opening date : 24/03/2009
- (h) Weekly day of rest : SUN
2. Address for : GOVINDPURAM ROAD
correspondance : MADRAS CEMENTS LIMITED,
Govindrajapuram, Sendurai Road, Ariyalur-621713
3. (a) Lease Number : TMN1030
- (b) Lease area : 4.83
- (c) Period of lease : 20
- (d) Date of Expiry : 15/06/2015
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 : C. RAVICHANDRAN
 GENERAL MANAGER (Adm)
 MADRAS CEMENTS LTD,
 GOVINDAPURAM WORKS,
 SENDURAI ROAD ARIYALUR
 TAMIL NADU
 Phone: 04329-226001
 FAX : 04329-226005

Mining Engineer

Name : Shri.Kesamsetti Maheshkumar,Full Time
 Qualification : B.tech Mining
 Appointment/ : 18/07/2018
 Termination date

Geologist

Name : S ARUN,Full Time
 Qualification : MSC.GEOLOGY
 Appointment/ : 01/04/2017
 Termination date

Manager

Name : A RAMBABU
 Qualification : B.TECH MINING,FCC
 Appointment/ : 01/07/2019
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07/08/2006
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	24/10/2016
		MP review under 17(1) MCR 2016	30/10/2018
		MP modif under 17(3) MCR 2016	18/08/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Lease already fully explored upto G1 level
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	-do-
1e	Balance reserve as on 01/04/20	0.19 Million Tonnes	0.42 Million Tonnes	Due to less production during previous years on account of pandemic
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Geology & Exploration of the mine was found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No development proposed	Nil	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in topsoil, OB & Minerals	Separate benches maintained in topsoil, OB & Minerals	As proposed
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-do-
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Mining pit was already developed and no further development was required/proposed/ carried out during the year.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Single pit	As proposed
3b	Quantity of ROM mineral production proposed	101500 Tons	101400.16 Tons	Within limit
3c	Recovery of sailable/usable mineral from ROM production	100 % recovery proposed (101500 Tons)	100 % mineral recovered from ROM (101400.16 Tons)	-do-
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
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	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting proposed on contingency basis	Non-conventional mining carried out with X-centric ripper	No drilling & blasting carried out
3k	Provision of mining machineries in mineral benches	Excavator - 1 No Xcentric Ripper- 1 No Tipper - 13 No's Water Tanker - 1 No	Excavator - 1 No Xcentric Ripper- 1 No Tipper - 13 No's Water Tanker - 1 No	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8.0m	8.0m	Suitable
3m	Total area covered under excavation/pits	10.25.0 Ha (till 2023-24)	8.46.0 Ha (till 2022-23)	Within limits
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	As proposed

3o	Total area put in use under different heads at the end of year	<p>Activities Area use at the end of approved plan period (in Ha)</p> <p>Area under mining 10.25.0</p> <p>Storage for top soil 0.00.0</p> <p>Overburden / dump 0.00.0</p> <p>Mineral Storage 0.00.0</p> <p>Infrastructure (workshop, administrative building) 0.20.0</p> <p>Roads 0.60.0</p> <p>Tailing pond 0.00.0</p> <p>Effluent treatment plant 0.00.0</p> <p>Mineral separation plant 0.00.0</p> <p>Township area 0.00.0</p> <p>Excavated area reclaimed 11.71.0</p> <p>Others to be specified (green belt, etc.,) 3.31.5</p> <p>Total 26.07.5</p>	<p>Activities Area use at the end of year 2022-23 (in Ha)</p> <p>Area under mining 8.46.0</p> <p>Storage for top soil 0.00.0</p> <p>Overburden / dump 0.00.0</p> <p>Mineral Storage 0.00.0</p> <p>Infrastructure (workshop, administrative building) 0.20.0</p> <p>Roads 0.60.0</p> <p>Tailing pond 0</p> <p>Effluent treatment plant 0</p> <p>Mineral separation plant 0</p> <p>Township area 0</p> <p>Excavated area reclaimed 13.27.0</p> <p>Others to be specified (green belt, etc.,) 3.54.5</p> <p>Total 26.07.5</p>	Within limits
3p	Production of ROM mineral during the last five year period as applicable	<p>2018-19: 1498032</p> <p>2019-20: 1000200</p> <p>2020-21: 600900</p> <p>2021-22: 99980</p> <p>2022-23: 101500</p> <p>(in tonnes)</p>	<p>2018-19: 1245691</p> <p>2019-20: 744618.28</p> <p>2020-21: 372176.02</p> <p>2021-22: 99959.98</p> <p>2022-23: 101400.16</p> <p>(in tonnes)</p>	-do-
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was 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)	No Topsoil/ Overburden/ Mineral reject generation envisaged for the year	No Topsoil / Overburden / Mineral reject generated during the year	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	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
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.	No proposal	Garland drains maintained around the lease	Nil
4i	Length of Retaining wall or garland drain all along dumps	NA	700 m garland drain maintained	Nil
4j	Number of settling ponds	No proposal	2 numbers settling pond maintained	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	There was no waste dump in the mine. No OB/rejects/waste as generated during the year as well. Backfilled area was already afforested during previous years.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling proposed for the year	No backfilling carried out during the year	A cumulative of 13.27 Ha has been backfilled till date.
5b	Area under backfilling of mined out area	Nil	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal for the year	Nil	Entire topsoil has already been used in afforestation of backfilled areas.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No backfilling or reclamation was proposed or carried out during the year.

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	In time	Along with AR
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	Nil	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no .of plants	NA	NA	Nil
6f	Any other method of rehabilitation	NA	NA	Nil

6g	Cost incurred on watch and care during the year	NA	NA	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.25 Ha & 450 nos	0.95 Ha & 950 nos	As proposed
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	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	50 nos saplings proposed	50 nos saplings planted	As proposed
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.02 Ha	0.05 Ha	-do-

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	-do-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodic monitoring proposed	Periodic monitoring carried out	-do-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance & Progressive Closure Operations found satisfactory.

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	Nil
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	-	-	No issues were observed with mineral conservation. No beneficiation was proposed or carred out. Entire ROM was consumed as proposed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil removal or utilisation proposed for the year	Nil	Nil
8b	Concurrent use or storage of topsoil	NA	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	44,000 nos of saplings planted cumulatively	Nil
8g	Survival rate	No proposal	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Water tanker proposed for control of airborne dust	Water tanker deployed for control of airborne dust	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area was found satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted	In time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	7. Manager : Shri.A.RAMBABU 8. Mining Engineer in charge: Shri.E.THANGAK UMAR 9. Geologist in charge : Shri.S.ARUN	Given in Part I, Sl 7-9.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 8.460 8.460 (iii) Reclaimed-rehabilitated 0.000 9.450 9.450 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.800 0.800 (vi) Used for any other purpose (specify) Green Belt & Others 0.000 3.545 3.545	Given in Part I, Sl 12	Nil

9d	Scrutiny of Annual return on afforestation	Description Within lease area Outside lease area i) Number of trees planted during the year 1000 0 ii) Survival rate in percentage 90 0 iii) Total no. of trees at the end of the year 44000 0	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Category Opening stock Production Closing stock (a) Open Cast workings 0.000 101400.160 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump workings 0.000 0.000 0.000	Given in Part VI, Sl 2	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 290.83/-	Given in Part VI, Sl 3 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs 2,06,58,681/-	Given in Part II A Capital Structure	Nil

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Non-electrical (specify) Used in opencast underground (specify) BACK HOE 1.800 CUM 1 Non Electrical Opencast TIPPER 10.000 CUM 7 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast	Given in Part V, Sl 6	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 :

(Matiul Islam)

Indian Bureau of Mines