

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PBRLST-37.MDS

**Mine code :** 38TMN24039

- (i) Name of the Inspecting : **G039** ) **G.C.Sethi**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. Magesh, GM - Mines  
Official with  
Designation
- (iv) Date of Inspection : 19/12/2023
- (v) Prev.inspection date : 06/07/2022

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PERIYANAGALUR(36.295HA)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : PERIYANAGALUR
- Taluka : ARIYALUR
- Post office : PERIYANAGALUR
- Pin Code : 621714
- FAX No. : 04329-226005
- E-mail : 04329-226001, 9942986212
- Phone : magesh@madrascements.co.in
- (f) Police Station : ARIYALUR
- (g) First opening date : 02/06/2003
- (h) Weekly day of rest : SUN
2. Address for : AURAS CORPORATE CENTRE, V FLOOR  
correspondance : 98-A, RADHAKRISHNAN ROAD  
MYLAPORE CHENNAI- 4
3. (a) Lease Number : TMN0895
- (b) Lease area : 35.96
- (c) Period of lease : 50
- (d) Date of Expiry : 19/08/2053
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 : MADHUSUDAN KULKARNI  
 Govindapuram Works Sendurai  
 Road Ariyalur ARIYALUR  
 TAMIL NADU  
 Phone: 9943300504  
 FAX : 04329-226005

## Geologist

Name : R. Senthil Kumaran,Full Time  
 Qualification : M.Sc (Geology)  
 Appointment/ : 16/08/2019 10/01/2022  
 Termination date

## Geologist

Name : SENTHAMILSELVEM,Full Time  
 Qualification : MSc GEOLOGY  
 Appointment/ : 22/04/2018 15/08/2019  
 Termination date

## Geologist

Name : C.Vijaya Kumar,Full Time  
 Qualification : MSc Geology  
 Appointment/ : 11/01/2022  
 Termination date

## Manager

Name : K.ABRAHAM  
 Qualification : B.E WITH FIRST CALSS  
 Appointment/ : 22/07/2016  
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 12/05/2000  
 Plan/Scheme of Mining Modif.of approved Mining Plan 19/04/2005  
 Modif.of approved Mining Plan 01/09/2006  
 Mining Scheme rule 12 MCDR1988 29/09/2008  
 Mining Scheme rule 12 MCDR1988 06/06/2013  
 MP modif under 17(3) MCR 2016 15/11/2016  
 MP review under 17(1) MCR 2016 25/10/2017  
 MP modif under 17(3) MCR 2016 03/08/2021  
 MP review under 17(1) MCR 2016 14/11/2022

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1.	Geological axis - 1.	Entire lease area is under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not applicable	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	9.18 million tons as per the MMP approved on 03.08.2021	9.66 million tons as per the 2022-23 annual return.	Cement Grade Limestone. Based on recent exploration the reserves have re-assessed.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	No exploration has been done during 2022- 23. Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No Proposal	Nil	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	Three benches in OB & five benches in Ore.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.0	1 : 0.0	Nil
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Nil
2e	Quantity of overburden generation in m3	No Proposal	Nil	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	No development was proposed and carried out during the year.	Nil
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Nil
3b	Quantity of ROM mineral production proposed	299280 tons	299204 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	100% Recovery	Nil
3d	Quantity of mineral reject generation	No Proposal	Nil	Not Applicable
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Not Applicable
3f	Quantity of sub grade mineral generation.	No Proposal	Not generated	Not Applicable
3g	Grade of sub grade mineral generation	Nil	Nil	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable	No beneficiation is carried out	Not applicable
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting are proposed.	Drilling & Blasting being done	Nil

3k	Provision of mining machineries in mineral benches	Excavator, Backhoe, Tippers, Rock Breakers Dozer	As proposed the machineries are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 8m	Bench height -8m	Nil
3m	Total area covered under excavation/pits	19.50 ha	19.50 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.0	1 : 0.0	Nil
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 19.50 hect Dump = 7.50 hect	Land use Pattern as on 01.04.2023. Mines = 19.50 hect Dump = 7.50 hect	Nil
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 299280 tons 2021-2022 = 298540 tons 2020-2021 = 342100 tons 2019-2020 = 293912 tons 2018-2019 = 344940 tons	2022-2023 = 299204 tons 2021-2022 = 298456 tons 2020-2021 = 341572 tons 2019-2020 = 289131 tons 2018-2019 = 344908 tons	Nil
3q	General remarks of inspecting officers on method of mining etc.	Nil	2022-2023 = 299204 tons 2021-2022 = 298456 tons 2020-2021 = 341572 tons 2019-2020 = 289131 tons 2018-2019 = 344908 tons	Nil

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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Dumping proposal	Dumping not in practice	Nil

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4b	Location of topsoil, OB and mineral reject dumps	No Dumping proposal	Not done	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area = 6 Non Lease area = Nil	Lease area = 6 Non Lease area = Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South & East side	South & East side	Existing dumps
4e	Number of active and alive dumps.	No Proposal	Nil	Nil
4f	Number of dead dumps.	Lease area = 4	Lease area = 4	Nil
4g	Number of dumps established.	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drainage around dump periphery	Done as per proposal	Nil
4i	Length of Retaining wall or garland drain all along dumps	1500 m garland drainage proposed.	1500m garland drainage is constructed.	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	1500m garland drainage is constructed around dump periphery.	Nil

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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.	No Proposal	Nil	Nil
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	No Backfilling proposed.	Nil

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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	PMCP report for the year 2022-23 has been submitted
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil	Nil

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	500 nos of saplings proposed	500 nos of saplings planted	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.30 ha	0.30 ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Periodical monitoring.	Environmental parameters are within limits.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Plantations done as per the proposed number for compliance to PMCP proposals.	PMCP proposals have been complied.
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	299280 tons	299204 tons	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	Nil
7c	Different grade of mineral sorted out at mines.	No Mineral sorted out	No Mineral sorted out	Nil
7d	Any beneficiation process at mines	No Proposal	No processing of mineral is involved.	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Achieved ROM Production is 299204 tons during 2022- 2023 against proposal of 299280 tons.	Nil

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings proposed.	500 saplings planted.	Plantation has been done as per proposal.
8g	Survival rate	No Such proposal in document	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling	Water Sprinkling is being done on roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Plantation has been done as per proposal.	Nil

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Geologist & mining engineer are appointed.	During inspection Mining Engineer, Geologist is present.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 19.50ha; Reclaimed - Rehabilitated 0.50ha; Used for waste disposal 7.670ha; Occupied by plant, buildings, residential, welfare buildings & roads-0.700ha; Other Purpose (Green Belt , Safety Zone & Others)- 7.590ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	500 saplings	Furnished under part-V.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	299204 tons	Furnished in part- VI	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs.218/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.9021987/-	Furnished in part- II-A	Nil
9k	Scrutiny of Annual return on mining machineries	Backhoe, Tipper, Water Tanker, Air Compressor, Rock Drill.	Furnished in part- V sec 6	Nil

**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 :**

**(G.C.Sethi)**

Indian Bureau of Mines