

**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 : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri K.Abraham Mine Manager & Shri.Upparapalli Venkat  
Official with  
Designation
- (iv) Date of Inspection : 04/01/2020
- (v) Prev.inspection date : 28/06/2019

**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 correspondance** : **AURAS CORPORATE CENTRE, V FLOOR**  
**98-A, RADHAKRISHNAN ROAD**  
**MYLAPORE CHENNAI- 4**
3. (a) **Lease Number** : **TMN0895**
- (b) **Lease area** : **36.3**
- (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 : MADEO YADAV  
 VICE PRESIDENT( Mfg) MADRAS  
 CEMENTS LTD, GOVINDAPURAM  
 WORKS, SENDURAI ROAD,  
 ARIYALUR TAMIL NADU  
 Phone: 04329-226001  
 FAX : 04329-226005

## Mining Engineer

Name : G.R.MAGESH,Full Time  
 Qualification : BE (MINING)  
 Appointment/ : 30/01/2008  
 Termination date

## Geologist

Name : SENTHAMILSELVEM,Full Time  
 Qualification : MSc GEOLOGY  
 Appointment/ : 22/04/2018  
 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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine Fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Mine Fully explored under G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine fully explored
1e	Balance reserve as on 01/04/20	---	1.47 Million Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	---	---	The geology, exploration is found to be satisfactory

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML-2-2' to 4-4' RL-66.0 to 38.0	ML-2-2' to 4-4' RL-66.0 to 38.0	As proposed in Mining Plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB benches-3 L.st benches-5	OB benches-3 L.st benches- 5 OBServed.	As per the proposal
2c	Stripping ratio or ore to OB ratio	1:1.01	1:0.99	NIL
2d	Quantity of topsoil generation in m3	NIL	NA	No topsoil generation
2e	Quantity of overburden generation in m3	218350	215313	As per the proposal

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	NIL
3b	Quantity of ROM mineral production proposed	2014-15 - 698640 Tons 2015-16 - 508784 Tons 2016-17 - 899787 Tons 2017-18 - 899980 Tons 2018-19 - 344940 Tons 2019-20 - 293912 Tons	2014-15 - 576822.26 Tons 2015-16 - 184860.33 Tons 2016-17 - 824730.63 Tons 2017-18 - 797279.29 Tons 2018-19 - 344908.58 Tons 2019-20- 240892.10 Tons (Till Dec-2019)	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	100 % mineral recovered from ROM
3d	Quantity of mineral reject generation	NIL	NA	No Mineral reject generation
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	NIL
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Machanised	Machanised	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	Yes, Proposed to carryout Drilling & Blasting	Adopted conventional method of mining using controlled blasting techniques	As per the mining plan Drilling and Blasting is being done
3k	Provision of mining machineries in mineral benches	"Pneumatic drilling machine & compressor - 1 No Excavator-EX-220 - 1 No's Tipper - 11 No's Water Tanker - 1 No"	"Pneumatic drilling machine & compressor - 1 No Excavator-EX-220 - 1 No's Tipper - 11 No's Water Tanker - 1 No"	As per Mining Plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the benches is proposed to maintain at height of 8.0 meters	As proposed height of the bench is maintained at 8.0 m maintained	As per Mining Plan
3m	Total area covered under excavation/pits	18.93.0 Ha	18.93.0 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:1.01	1:0.99	NIL
3o	Total area put in use under different heads at the end of year	36.29.5	36.29.5	NIL
3p	Production of ROM mineral during the last five year period as applicable	344940 Tons	344908.58 Tons	with in the limite
3q	General remarks of inspecting officers on method of mining etc.	----	-----	Method of mining is found satisfactory

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The over burden on the south eastern side between ML-2 to 4 and the same has been used for backfilling on the North eastern side of ML-5 to ML-6	As per the proposal, remove the over burden on the south eastern side between ML-2 to 4 and the same has been used for backfilling on the North eastern side of ML-5 to ML-6,	Carried out as proposed in the approved mining plan
4b	Location of topsoil, OB and mineral reject dumps	Top soil dump : South & Eastern side of Mining lease OB dump: Southern side of Mining lease	Top soil dump : South & Eastern side of Mining lease OB dump: Southern side of Mining lease	NIL
4c	Number of dumps within lease area and outside of lease area	6 nos	6 nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South and East Side	South and East Side	As per plan
4e	Number of active and alive dumps.	2 No	2 No	As per plan
4f	Number of dead dumps.	4 No's	4 No's	As per plan
4g	Number of dumps established.	4 No's	4 No's	As per plan
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain around periphery of dump	Done as per the proposal	As per plan
4i	Length of Retaining wall or garland drain all along dumps	"Length of Garland drain all along dump 1500m X 2m X 2m "	1500m lengthy garland drainage has been done all along the dumps	As per plan

4j	Number of settling ponds	2 No's of settling pond has been proposed on the eastern side of the mining lease boundary	Constructed 2 No's of settling pond on the eastern side of the mining lease boundary	As per plan
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.	Southern side of the leas area	Mineral fully excavated on the Southern side	As per plan
5b	Area under backfilling of mined out area	2.70.0 ha	2.70.0 ha	As per plan
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL
5d	Total area fully reclaimed and rehabilitated	0.50.0 ha	0.50.0 ha	As per plan
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	-----	backfilling is founs to be satisfactory

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposal as cited in the Mining plan	Submitted the PMCP report vide Rule 23 E(2) of MCDR 2017	submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NIL	Not at this stage
6c	afforestation done (ha).	17.70.0	17.70.0	As per plan
6d	No. of saplings planted during the year	1000 No's	500 No's	plantation under progressive
6e	Cumulative no .of plants	---	42000 No's	nil
6f	Any other method of rehabilitation	NIL	NA	No other specific method of rehabilitation
6g	Cost incurred on watch and care during the year	----	1.0 Lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	1000 No's	500 No's	Plantaion carried out backfilled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	Will be done at the end of life of the mine



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	NIL	Na	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Propose to carryout Environmental monitoring both Core and Buffer Zones	M/s Ensyscon Environmental laboratory, Chennai has been engaged for monitoring Environmental Data on Quarterly basis.	Is being done on Quartrely basis
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	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	NIL

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	----	-----	Mineral conservation & beneficiation is found satisfactorily.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Propose to be used for green belt development	Used for green belt development	As per plan
8b	Concurrent use or storage of topsoil	No Proposal	No concurrent use of Topsoil	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps of over burden is proposed	Separate dumps of over burden is proposed Separate dumps of over burden is being maintained on the southern side	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Backfilling is under progress	As per plan
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Restoration planned in phased manner	Being done as per the proposal	As per plan

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Within the lease area - 100No's	Within the lease area - 500 No's	As per plan
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	----	----	aesthetic beauty in and around mines area is found good
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
9a	Status of submission of Monthly and Annual returns	Given in the format	M.R. Submitted upto May-2019 A.R. submitted yet to submit	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Shri.Upparapalli Venkateswarlu-Mining Eniner Shri.R.Senthilkumara-geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	NIL	Part-I Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	36.29.5	Provided in Part-V and para 4.4
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	NIL	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	NIL	Part-VI, Sl.No.2

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	NIL	NIL
9h	Scrutiny of Annual return on fixed assets	Given in the format	"Pneumatic drilling machine & compressor - 1 No Excavator-EX-220 - 1 No's Tipper - 11 No's Water Tanker - 1 No"	PART - V (General Geology & Mining) Sl.No.5
9k	Scrutiny of Annual return on mining machineries	Given in the format		

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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 :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines