

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR.MAGESH DGM-MINES
Official with
Designation
- (iv) Date of Inspection : 19-SEP-17
- (v) Prev.inspection date : 24-AUG-11

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PERIYANAGALUR(36.295HA)
- (b) **Registration NO.** :
- (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-JUN-03
- (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** : 20
- (d) **Date of Expiry** : 01-JUN-23
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-JAN-08
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	19-APR-05
		Modif.of approved Mining Plan	01-SEP-06
		Mining Scheme rule 12 MCDR1988	29-SEP-08
		Mining Scheme rule 12 MCDR1988	06-JUN-13
		MP modif under 17(3) MCR 2016	15-NOV-16

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	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	NIL
1e	Balance reserve as on 01/04/20	-	3.53 MILLION TONES	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between ML-1 & ML-2, From RL-65.0 to 49.0 & 59.0 to 49.0	Between ML-1 & ML-2, From RL-65.0 to 49.0 & 59.0 to 49.0	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches developed as per rule 15	DONE AS PROPOSED	NIL
2c	Stripping ratio or ore to OB ratio	1:0.38	1:0.34	NIL
2d	Quantity of topsoil generation in m3	0	4510	NIL
2e	Quantity of overburden generation in m3	214562 MT	172526 MT	NIL

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	NIL
3b	Quantity of ROM mineral production proposed	899787 MT	824731 T	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
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.	NA	NA	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NIL
3j	Provision of drilling and blasting in mineral benches	YES	YES DRILLING AND BLASTING IS BEING DONE	NIL

3k	Provision of mining machineries in mineral benches	Pneumatic drilling machine & compressor Excavator-EX-200 Excavator-EX-210 Tipper - 7 No's Dozer - 1 No's Water Tanker- 1 No's	Machineries as proposed is deployed for mining operation Pneumatic drilling machine & compressor Excavator-EX-200 Excavator-EX-210 Tipper - 7 No's Dozer - 1 No's Water Tanker- 1 No's	NIL
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 as 8.0 X 8.0 meters	The height of the benches is maintain as 8.0 X 8.0 meters	NIL
3m	Total area covered under excavation/pits	18.00 HA	18.00HA	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	1:0.33	NIL

3o	Total area put in use under different heads at the end of year	<p>S.no Activities Area use at the end of the approved Mining plan (in Ha)</p> <p>1 Area under mining 20.08.0</p> <p>2 Storage for top soil 0.17.0</p> <p>3 Overburden / dump 7.50.0</p> <p>4 Mineral storage Nil</p> <p>5 Infrastructure (workshop, administrative building etc) 0.20.0</p> <p>6 Roads 0.50.0</p> <p>7 Railways Nil</p> <p>8 Green belt 5.35.0</p> <p>9 Tailing pond Nil</p> <p>10 Effluent treatment plant Nil</p> <p>11 Mineral separation plant Nil</p> <p>12 Township area Nil</p> <p>13 Others to be specified (Back Filling, Green belt, etc.,) 2.32.5</p> <p>Total 36.12.5</p>	<p>S.no Activities Area use at the end of the approved Mining plan (in Ha)</p> <p>1 Area under mining 18.00.0</p> <p>2 Storage for top soil 0.17.0</p> <p>3 Overburden / dump 11.00.0</p> <p>4 Mineral storage Nil</p> <p>5 Infrastructure (workshop, administrative building etc) 0.20.0</p> <p>6 Roads 0.70.0</p> <p>7 Railways Nil</p> <p>8 Green belt 1.00.0</p> <p>9 Tailing pond Nil</p> <p>10 Effluent treatment plant Nil</p> <p>11 Mineral separation plant Nil</p> <p>12 Township area NIL</p>	NIL											
3p	Production of ROM mineral during the last five year period as applicable	<table border="1"> <thead> <tr> <th>Year Proposed in Tonnes</th> <th>Year Actual in Tonnes</th> </tr> </thead> <tbody> <tr> <td>2012-13 900000</td> <td>2012-13 867844</td> </tr> <tr> <td>2013-14 803770</td> <td>2013-14 499437</td> </tr> <tr> <td>2014-15 698640</td> <td>2014-15 576822</td> </tr> <tr> <td>2015-16 508784</td> <td>2015-16 184860</td> </tr> <tr> <td>2016-17 899787</td> <td>2016-17 824731</td> </tr> </tbody> </table>	Year Proposed in Tonnes	Year Actual in Tonnes	2012-13 900000	2012-13 867844	2013-14 803770	2013-14 499437	2014-15 698640	2014-15 576822	2015-16 508784	2015-16 184860	2016-17 899787	2016-17 824731	ALL YEARS WITHIN LIMIT
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2016-17 899787	2016-17 824731														
3q	General remarks of inspecting officers on method of mining etc.	-	-	SATISFACTORY											

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	THE proposal to use the over burden for backfilling instead of dumping.	As per the mining plan proposal, the over burden removed from the southern side and the same has been used for backfilling on the eastern side between ML-4 to ML-6.	DUMPING IS MADE AS PROPOSED
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	Within the lease area: 6	Within the lease area: 6	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South and East Side	South and East Side	NIL
4e	Number of active and alive dumps.	1 no on the Eastern side	1 no on the Eastern side	NIL
4f	Number of dead dumps.	5 no's on the south side	5 no's on the south side	NIL
4g	Number of dumps established.	5	5	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain around periphery of dump	DONE AS PROPOSED	NIL
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	NIL
4j	Number of settling ponds	TWO, 2 No's of settling pond has been proposed on the eastern side of the mining lease boundary	TWO, Constructed 2 No's of settling pond on the eastern side of the mining lease boundary	NIL

4k	Specific comments of inspecting officer on waste dump management	-	-	SATISFACTORY
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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.	Mineral proposed to be excavated on the Northern side	Mineral fully excavated Northern side	NIL
5b	Area under backfilling of mined out area	1.50HA	1.50HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	We propose to use the Topsoil for green belt development on the backfilled area as a part of Restoration/Rehabilitation.	Topsoil will be used for green belt development on the backfilled area	NIL
5d	Total area fully reclaimed and rehabilitated	Reclamation is under progress	Reclamation is under progress in north-east side of the lease as proposed	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	satisfactory

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	NOT SUBMITTED TO IBM	VIOLATION ISSUED
6b	Area available for rehabilitation (ha) .	nil	nil	nil

6c	afforestation done (ha).	nil	1Ha	nil
6d	No. of saplings planted during the year	-	1000 nos	nil
6e	Cumulative no .of plants	-	40500 nos	nil
6f	Any other method of rehabilitation	NA	NA	NIL
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	NA	NA	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	NA	NA	NIL
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.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	YES QUARTLY MONITORING IN CORE AND BUFFER ZONE IS BEING CARRIED OUT.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch (899787 Tons)	ROM Mineral dispatch (824731 Tons)	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	NA	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Propose to be used for green belt development	Used for green belt development	NIL
8b	Concurrent use or storage of topsoil	Propose to be used for green belt development	Used for green belt development	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 being maintained on the southern side	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	Backfilling in progress	NIL
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	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	40500 TREES	40500 TREES	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WATER SPRINKLING IS BEING DONE.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	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	YES	M.R. Submitted upto 31stAugust-2017 A.R. submitted upto 31stMarch-2017	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished	The information was found representative	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use furnished in appropriate column/table	The information was found correct	NIL
9d	Scrutiny of Annual return on afforestation	The information was furnished in appropriate column/table	The information was found correct	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The information was furnished in appropriate Column/table	The information was found correct	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The information was furnished in appropriate Column/table	The information was found correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The information was furnished in appropriate Column/table	The information was found correct	NIL
9h	Scrutiny of Annual return on fixed assets	The information was furnished in appropriate Colum/table	The information was found correct	NIL
9k	Scrutiny of Annual return on mining machineries	The information was furnished in appropriate Column/table	The information was found correct	NIL

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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines