

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

MCDR INSPECTION REPORT

Chennai regional office

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

Mine code : 38TMN38005

- (i) Name of the Inspecting : **T003** () **S.THIRUNAVUKKARASU**
- (ii) Officer and ID No.
- (iii) Designation : Senior Mining geologist
- (iv) Accompanying mine : Azmal Ahmed, Mines Manager, Suresh Babu, Mining
Enginee Official with
Designation
- (v) Date of Inspection : 16-DEC-17
- (v) Prev.inspection date: 21-NOV-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : (b) Lease area
- (b) **Registration NO.** :
- (c) Category : (c) Period of lease
- (d) Type of Working : (d) Date of Expiry
- (e) Postal address State :
- : District :
- : Village : 4. Mineral worked
- : Taluka : :
- : Post office : **ALATHIYUR (GO. 667) (57.12HE)**
- : Pin Code :
- : FAX No. :
- : E-mail : A Mechanised
- : Phone : Opencast
- (f) Police Station : TAMIL NADU
- (g) First opening date : ARIYALUR
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number :

DALAVOI
30-MAR-95
SUN
M/S MADRAS CEMENTS LTD.
ALATHIYUR WORKS,ARIYALUR DISTRICT

AURAS CORPORATE CENTRE
VFLOOR, 98A, RADAKRISHNAN R
MYLAPORE, CHENNAI CHENNAI
CITY TAMIL NADU
Phone: 044-8555815
FAX : 044-830248

TMN0740

S SHANMUGAM
Madras Cements Ltd, TALUKA-

6. Date of approval of Mining
Plan/Scheme of Mining

: Mining Scheme rule 12 MCDR1988
Mining Scheme rule 12 MCDR1988

29-AUG-
09
30-JUN-
14

57.12
30
11-APR-29

Sendurai ARIYALUR TAMIL
NADU
Phone: 04329-248305248306
FAX : 04329-248303

LIMESTONE Main
5. Name and Address of the Lessee
:

Owner :

Agent :

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

P.R.RAMA SUBRAMANYA RAJA

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

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-----------|---|-----------------------|
| 1a | Backlog of previous year | NIL | NIL | NIL |
| 1b | Exploration over lease area for geological axis 1 or 2 | G1 | G1 | EXPLORATION COMPLETED |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NIL | " Amman Hi Drilling, 3,54,900 " During the Scheme period we have encountered very lowgrade limestone (siliceous Limestone) laterally and vertical extension and hence we have drilled additional borehole. Form-J Submitted on 21.12.2016 | NIL |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | NIL | NIL |
| 1e | Balance reserve as on 01/04/20 | - | 3,48,118 | NIL |
| 1f | General remarks of inspecting officers on geology, exploration etc | - | - | NIL |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

| | | | | |
|----|---|-----------|------------------------------|-------------|
| 2a | Location of development w.r.t.lease area | ML 3 - 11 | ML 3 - 11 AS PER PROPOSAL | NIL |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | YES | YES | NIL |
| 2c | Stripping ratio or ore to OB ratio | 1:0 | 1:0 | NIL |
| 2d | Quantity of topsoil generation in m3 | NIL | NIL | NO PROPOSAL |
| 2e | Quantity of overburden generation in m3 | NIL | NIL | NO PROPOSAL |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | - | NIL |

Exploitation:

| | Propasals | Actual work | Remarks |
|----|---|-------------|------------|
| 3a | Number of pit proposed for production | 1 | NIL |
| 3b | Quantity of ROM mineral production proposed | 3,23,228 | NIL AS PER |
| 3c | Recovery of sailable/usable mineral from ROM production | 3,23,228 | PROPOSAL |
| 3d | Quantity of mineral reject generation | NIL | NIL |
| | Grade of mineral | NIL | |

| | | | | |
|--------|---|-----|-----|-----|
| 3e | rejects generation and threshold value declared. | NIL | NIL | NIL |
| 3f | Quantity of sub grade mineral generation. | NIL | NIL | NIL |
| 3g | Grade of sub grade mineral generation | NIL | NIL | NIL |
| 3h | Manual / Mechanised method adopted for segregating from ROM | NIL | NIL | NIL |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | | NIL | NIL |
| Sl.No. | Item | | | |

| | | | | | |
|----|--|--|--|--------------|-----|
| 3j | Provision of drilling and blasting in mineral benches | NIL | NIL | NIL | |
| 3k | Provision of mining machineries in mineral benches | YES | Surface Minor operation is in practice for production. | NIL | |
| 3l | Whether height YES of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | | Benches suitable for the method of mining | NIL | |
| 3m | Total area covered under excavation/pits | 40.62 | 40.62 | AS PROPOSAL | PER |
| 3n | Ore to OB ratio 1:0 for the pit/mine during the year. | | 1:0 | NIL | |
| 3o | Total area put in use under ROADS=40.62 different heads GREEN at the end of BELT=3.52 | MINING & ROADS=40.62 different | MINING & ROADS=40.62 GREEN BELT=3.52 BACKFILLING=5.8 | NIL | |
| 3p | year | BACKFILLIN=6.2 | | WITHIN LIMIT | |
| | Production of ROM mineral the last period applicable | 2016-17 3,38,000 2015-16 2,82,000 2014-15 4,24,000 2013-14 5,17,400 2012-13 5,17,400 | 2016-17 3,23,228 2015-16 1,96,651 2014-15 1,02,003 2013-14 3,67,582 2012-13 4,46,777 | | |
| 3q | | | | SATISFACTORY | |
| | General remarks - of inspecting officers on method of mining etc. | | - | | |

Solid Waste Management - Dumping:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|-----------|-------------|-----------------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | YES | YES | As per proposal |

| | | | | |
|----|--|--------------|--------------|--------------|
| 4b | Location of topsoil, OB and mineral reject dumps | WITHIN LEASE | WITHIN LEASE | NIL |
| 4c | Number of dumps NIL within lease area and outside of lease area | | NIL | NIL |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | NIL | NIL | 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 | YES | NIL |
| 4i | Whether Retaining wall or garland drain all along dumps are there. | YES | 951 x 5 x 2 | NIL |
| 4j | Length of Retaining wall or garland drain all along dumps | YES | 1 | NIL |
| 4k | Number of settling ponds | 1 | - | SATISFACTORY |
| | Specific comments of inspecting officer on waste dump management | | | |

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. | YES | Full extraction | NIL |
| 5b | Area under backfilling of mined out area | - | - | NIL |

| | | | | |
|----|---|-----|-----|--------------|
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | YES | YES | NIL |
| 5d | Total area fully reclaimed and rehabilitated | - | - | 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 | YES | NIL |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | NIL |
| 6c | afforestation done (ha). | 0.45 | 0.81 | NIL |
| 6d | No. of saplings planted during the year | 720 | 1300 | NIL |
| 6e | Cumulative no .of plants | - | 20,351 | SATISFACTORY |
| 6f | Any other method of rehabilitation | NIL | NIL | NIL |
| 6g | Cost incurred on 54,000 watch and care during the year | | 97,500 | NIL |
| 6h | Compliance on NIL reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | | NIL | NIL |

| | | | | |
|----|---|-----|-------------------|--------------|
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NIL | NIL | NIL |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on | NIL | NIL | NIL |
| 6k | backfilled area | NIL | NIL | NIL |
| 6l | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NIL | NIL | NIL |
| 6m | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | NIL | NIL | NIL |
| 6n | Compliance of rehabilitation of waste land within lease (i) afforestation | NIL | NIL | NIL |
| 6o | Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation | NIL | NIL | NIL |
| 6p | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | NIL | YES, QUARTLY DONE | NIL |
| 6q | Compliance of environmental monitoring (core zone and buffer zone) | YES | - | SATISFACTORY |
| | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

| | | | | |
|----|--|----------|----------|--------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 3,38,000 | 3,23,228 | NIL |
| 7b | Method of gradewise mineral sorting i.e. manual or mechanical. | NIL | NIL | NIL |
| 7c | Different grade of mineral sorted out at mines. | NIL | NIL | NIL |
| 7d | Any beneficiation process at mines | NIL | NIL | NIL |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | - | - | SATISFACTORY |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|-------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | YES | YES | NIL |
| 8b | Concurrent use YES or storage of topsoil | | YES | NIL |
| 8c | Separate dumps YES for overburden, waste rock, rejects and fines (Rule 33) | | YES | NIL |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | YES | YES | NIL |

| | | | | |
|----|---|--------|--|--------------|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | YES | YES, Reclamation is being practiced in a phased manner | NIL |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 19,051 | 19,051 | NIL |
| 8g | Survival rate | - | 75% | NIL |
| 8h | Water sprinkling on roads to control airborne dust | YES | YES | 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 |
|--------|---|-----------|---|---------|
| 9a | Status of submission of Monthly and Annual returns | SUBMITTED | SUBMITTED TO IBM ON TIME | NIL |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | PROVIDED | AS PROVIDED PRESENT AT SITE FOUND AS PROVIDED | NIL |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | GIVEN | IN AR | NIL |
| 9d | Scrutiny of Annual return on afforestation | GIVEN | PROVIDED | NIL |

| | | | | |
|----|---|----------|--------------|-----|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | NIL | NIL |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | NIL | NIL | NIL |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | GIVEN | CAPTIVE MINE | NIL |
| 9h | Scrutiny of Annual return on fixed assets | GIVEN | PROVIDED | NIL |
| 9k | Scrutiny of Annual return on mining machineries | PROVIDED | PROVIDED | 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 :

(V. Jaya Krishna Babu)

Indian Bureau of Mines