# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR INSPECTION REPORT

#### Chennai regional office

Mine file No: TN/TCR/LST-74..MDS Mine code: 38TMN38006

(i) Name of the Inspecting: T003 ) S.THIRUNAVUKKARASU

Officer and ID No.

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine : Shri.S.Duraimurugan (AGM) & Shri.M.R.Venkatesan (GM

Official with Designation

(iv) Date of Inspection : 03/01/2020
(v) Prev.inspection date : 26/06/2019

PART-I : GENERAL INFORMATION

. (a) Mine Name : ADANAKURICHI&MANAKUDAYAN(

(b) Registration NO. : IBM/638/2011

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : TAMIL NADU
District : ARIYALUR

Village :
Taluka :
Post office :
Pin Code :

FAX No. : 044-28478676

E-mail : vssm@ramcocements.co.in

Phone : 044-28477504

(f) Police Station : DALAVOI
(g) First opening date : 24/12/1999

(h) Weekly day of rest : SUN

2. Address for : ALATHIYUR WORKS,

correspondance CEMENT NAGAR POST, ARIYALUR DISTRICT

3. (a) Lease Number : TMN1029
(b) Lease area : 89.87
(c) Period of lease : 30

(d) Date of Expiry : 30/03/2025

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 : S SHANMUGAM

Madras Cements Ltd, TALUKA-Sendurai ARIYALUR TAMIL

NADU

Phone: 04329-248305248306

FAX : 04329-248303

Mining Engineer

Name : SURESHBABU, Full Time

Qualification : B TECH MINING Appointment/ : 01/01/2012

Termination date

Mining Engineer

Name : S.DURAI MURUGAN, Full Time

Qualification : B.E., MINING

Appointment/ : 26/06/2018 25/06/2018

Termination date

Geologist

Name : J.RAVI, Full Time
Qualification : M.Sc Geology
Appointment/ : 16/03/2007

Termination date

6. Date of approval of Mining
Plan/Scheme of Mining
Mining Scheme rule 22 MCR1960
Modif.approved Mining Scheme
Mining Scheme rule 12 MCDR1988
Mining Scheme rule 12 MCDR1988
Mining Scheme rule 12 MCDR1988
MP review under 17(1) MCR 2016
05/12/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

### Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog	Mine fully explored G-1 Level	20 borehole drilled with total meterage of 735.05 m.
1b	Exploration over lease area for geological axis 1 or 2		Mine fully explored G-1 Level	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	NA	Mine fully explored G-1 Level
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not Applied	Mine fully explored G-1 Level
1e	Balance reserve as on 01/04/20	-	58,30,721	Not applicable
1f	General remarks of inspecting officers on geology, exploration etc	-	_	Satisfactory

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 0-11 -200 to 0	ML 0-11 -200 to 0	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 1, Overburden - 1, Mineral - 5	Topsoil - 1, Overburden - 1, Mineral - 5	Formed as per rule
2c	Stripping ratio or ore to OB ratio	1 : 0.11	1 : 0.21	As per Proposed production qty not achieved due to quality problem.
2d	Quantity of topsoil generation in m3	Nil	Nil	As per proposal
2e	Quantity of overburden generation in m3	Nil	Nil	As per proposal

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

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3	3	As per proposal
3b	Quantity of ROM mineral production proposed	4,45,968	2,29,824	Total ROM is Used.
3c	Recovery of sailable/usable mineral from ROM production	4,45,968	2,29,824	100% Recovery
3d	Quantity of mineral reject generation	Nil	NA	No Mined Reject Generation
3e	Grade of mineral rejects generation and threshold value declared.	Nil	NA	NA
3f	Quantity of sub grade mineral generation.	Nil	AN	No Subgrade Mineral Generation
3g	Grade of sub grade mineral generation	Nil	NA	No Subgrade Mineral Generation
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	NA	Beneficiation Study is Not Required
3ј	Provision of drilling and blasting in mineral benches	Nil	Nil	-

3k	Provision of mining machineries in mineral benches	-	Surface Miner-1, Dumper-1, Shovel-1, Dozer-1, Tipper-4, Water Tanker-1, Other HEMM-2	Surface Miner operation is in practice for production.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 5m, Width - 6m	Height - 5m, Width - 6m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits	56.970	56.970	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.11	1 : 0.21	As per Proposed production qty not achieved due to quality problem.
30	Total area put in use under different heads at the end of year	- 1.00 Ha	Ha Infrastructure - 1.00 Ha Road - 3.50 Ha Mineral Sepratetion Plant - 5.006 Ha Other & Greenbelt -	As per proposal
3р	Production of ROM mineral during the last five year period as applicable	2018-19	2016-17 3,64,390 2017-18 3,97,243 2018-19 3,39,972	As per Proposed production qty not achieved due to quality problem.
3q	General remarks of inspecting officers on method of mining etc.	-	-	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, OB & Mineral rejects are dumped separately	No Topsoil, OB & Mineral rejects are dumped separately	Nil
4b	Location of topsoil, OB and mineral reject dumps	OB & Mineral Reject ML 0 - 1 Grid 0 to 200	OB & Mineral Reject ML 0 - 1 Grid 0 to 200	Back filled
4c	Number of dumps within lease area and outside of lease area	OB - 1 (Old)	OB - 1	Outside Lease Area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	NA	Nil
4e	Number of active and alive dumps.	Nil	Nil	No alive dumps
4f	Number of dead dumps.	1	1	Nil
4g	Number of dumps established.	1	1	Old dumps are stabilized.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	-	800 x 2 x 2	Outside Lease
4 ј	Number of settling ponds	1	1	Existing Settling Pond de-silted
4k	Specific comments of inspecting officer on waste dump management	-	-	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.	All minerals are mined & taken before starting of Backfilling	All minerals are mined & taken before starting of Backfilling	Full extraction is adopted

5b	Area under backfilling of mined out area	ML 00- ML 02 RL - 37 - 47		As per proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	Top soil stock for future use of afforestation and reclamation.
5d	Total area fully reclaimed and rehabilitated	Nil	NA	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	Submitted to IBM in time
6b	Area available for rehabilitation (ha) .	Backfilling proposed	Backfilling started	As per proposal
6c	afforestation done (ha).	0.68	1.06	Plantation carried out
6d	No. of saplings planted during the year	1,100	1,700	Plantation carried out as per proposal
бе	Cumulative no .of plants	49,187	50,887	For entire mine area
6f	Any other method of rehabilitation	Nil	Nil	No other method of Rehabiliation
6g	Cost incurred on watch and care during the year	36,89,025	38,16,525	As per proposal
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.08	0.03	As per proposal

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	_
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	NA	Mine not excavated
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	After mining is completed will be making water reservoir.	After mining is completed will be making water reservoir.	After mining is completed will be making water reservoir.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	Land does not belong to lessee
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable	Not applicable
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable	Not applicable
бр	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	All the monitored values are within limit. Quartely Reports submitted to IBM regularly.

6q General remarks - - Satisfactory 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	Nil	NA	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Nil	NA	No Subgrade Mineral
7c	Different grade of mineral sorted out at mines.	Nil	NA	No Subgrade Mineral
7d	Any beneficiation process at mines	Yes .Wet Beneficiation Technology is proposed	Being carried out as per proposal.	As per proposal
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	As per the proposal
8b	Concurrent use or storage of topsoil	Nil	NA	Top soil storage for future use.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only backfilling is done	Only backfilling is done	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling is proposed	As per the proposal	Simultaneous Backfilling is going on
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	NA	Mine not excavated
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	49,187	50,887	Nil
8g	Survival rate	-	75%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water Sprinkling is being done
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 for the year 2018- 19	Submitted for the year 2018-19	Submitted in time

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed	Appointed as per rule	as per Rule
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Given in Part - i. Sl no.12	as per Rule
9d	Scrutiny of Annual return on afforestation		Given in Part - V. Sl no.4.4	as per Rule
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Given in Part - V. Sl no.4.2	as per Rule
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Given in Part - VI. Sl no.1	as per Rule
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Given in Part - IIA. Sl no.1	as per Rule
9h	Scrutiny of Annual return on fixed assets		Given in Part - IIA. Sl no.1	as per Rule
9k	Scrutiny of Annual return on mining machineries		Given in Part - V Sec - 5	as per Rule

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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 Compli	ance on	Rule NO.	. Issued or	n Compliance on			

### Date :

 $(\, {\tt S.THIRUNAVUKKARASU} \,)$ 

Indian Bureau of Mines