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: M017) Matiul Islam

Officer and ID No.

: Assistant Controller Mine (ii) Designation

(iii) Accompaning mine : Mr.J.Ravi (AGM), Mr.K.Elansurian (AGM) & S.Durai Muru

Official with

Designation

(iv) Date of Inspection : 10/03/2023 Prev.inspection date : 22/09/2022 (v)

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 First opening date : 24/12/1999 (g)

Weekly day of rest (h) : SUN

Address for : ALATHIYUR WORKS,

correspondance CEMENT NAGAR POST, ARIYALUR DISTRICT

3. : TMN1029 (a) Lease Number : 89.88 (b) Lease area : 50 Period of lease (C)

> Date of Expiry (d) : 30/03/2045

Mineral worked 4. : 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

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 : R.Naren, Full Time

Qualification : BE(MINING)
Appointment/ : 13/05/2022

Termination date

Mining Engineer

Name : J. Iyyappan, Full Time

Qualification : BE Mining Appointment/ : 21/03/2019

Termination date

Geologist

Name : R.Balamurugan, Full Time

Qualification : MSC(GEO)
Appointment/ : 31/03/2019

Termination date

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Mine already fully explored upto G1 level.
1b	Exploration over lease area for geological axis 1 or 2		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	Nil	Nil	Nil
1e	Balance reserve as on 01/04/20	45,18,600 tonnes	48,44,953 tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	_	Geology & exploration of the mine were found satisfactory.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	307800 E - 1254400 N to 308100 E - 1254700 N and 308000 E - 1254900 N to 308400 E - 125500 N	308100 E - 1254700 N and 308000 E - 1254900 N to	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden - 2,		Separate benches maintained
2c	Stripping ratio or ore to OB ratio	1:1.32	1:1.64	Violation already pointed out for deviation in production & development quantities.

2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	4,36,344 tonne	2,22,843 tonne	Violation already pointed out for deviation in development quantity
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_		Development w.r.t. type of deposit was found satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	As proposed
3b	Quantity of ROM mineral production proposed	5,91,458 tonne	2,44,398.64 tonne	Violation already pointed out for deviation in production quantity.
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	As proposed
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.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
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	Nil	Nil
3ј	Provision of drilling and blasting in mineral benches	Nil	Nil	Non-conventional mining without drilling & blasting proposed & carried out.
3k	Provision of mining machineries in mineral benches	Surface Miner-1, Dumper-3, Shovel-2, Dozer-1, Tipper-9, Water Tanker-1,	Surface Miner-1, Dumper-3, Shovel-2, Dozer-1, Tipper-9, Water Tanker-1,	As proposed
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	Suitable
3m	Total area covered under excavation/pits	38.315 На	38.315 На	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1:1.32	1: 1.64	Violation already pointed out for deviations in production & development quantities.
30	Total area put in use under different heads at the end of year	current (O/C)	Covered under current (O/C) Workings - 38.315 Reclaimed/ Rehabilitated - 13.845 Occupied by plant, buildings, & roads - 9.506 Other Purpose - 25.049	As proposed

3р	Production of	2017-18	2017-18	3,97,243	Within limits
	ROM mineral	9,65,000	2018-19	3,39,972	
	during the last	2018-19	2019-20	4,43,529	
	five year period	8,83,000	2020-21	3,14,942	
	as applicable	2019-20	2021-22	2,44,399	
		4,45,968			
		2020-21			
		4,45,968			
		2021-22			
		5,91,458			
3q	General remarks of inspecting officers on method of mining etc.	_	_		Violation already pointed out for deviations in production & development quantities.

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 or mineral rejects envisaged	No topsoil or mineral rejects generated	OB backfilled into mined out areas
4b	Location of topsoil, OB and mineral reject dumps	OB backfilling location 1254600 N - 307300 E to 1254900 N - 307600 E	OB backfilling location 1254600 N - 307300 E to 1254900 N - 307600 E	As proposed
4c	Number of dumps within lease area and outside of lease area	OB - 1	OB - 1	Old dump existing outside lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	Backfilling into mined out area being carried out
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	1	1	Old dump existing outside lease area
4g	Number of dumps established.	1		-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Garland drains maintained	Nil

4i	Length of Retaining wall or garland drain all along dumps	Nil	800 m	Nil
4j	Number of settling ponds	No proposal	1	Nil
4k	Specific comments of inspecting officer on waste dump management	_	_	OB is currently being backfilled into mined out areas. Waste dump management was 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.	before	Full extraction of mineral from mined out area before starting backfilling carried out	As proposed
5b	Area under backfilling of mined out area	1254500 N - 307500 E to 1254900 N - 307800 E	1254500 N - 307500 E to 1254900 N - 307800 E	As proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil removal envisaged during the year	No topsoil removed during the year	Previously stacked topsoil being utilised in afforestation.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Backfilling & Reclamation activities were found satisfactory.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks

6a	Whether Annual report on PMCP submitted on	Yes	Submitted in time	As proposed
	time and correctly. Rule 23 E(2).			
6b	Area available for rehabilitation (ha) .	0.52 Ha proposed for backfilling & 0.7 Ha proposed for afforestation	1.0 Ha backfilled & 0.8 Ha afforested	-do-
6c	afforestation done (ha).	0.70 На	0.80 Ha	-do-
6d	No. of saplings planted during the year	1,100 nos proposed	1,200 nos planted	-do-
6e	Cumulative no .of plants	-	63,337 nos saplings planted since inception	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
бд	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.52 Ha	1.0 На	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.52 На	1.0 На	Backfilled with OB
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	Nil	Nil	Backfilling under process

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
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	1,100 nos proposed	1,200 nos planted	As proposed
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.70 На	0.80 На	-do-
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	-do-
бр	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring proposed	Periodical Monitoring carried out	All parameters within norms
6q 	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	_	PMCP Compliance & Progressive Closure Operations were found satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting proposed	Grade-wise sorting carried out	As proposed

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	-do-
7c	Different grade of mineral sorted out at mines.			Based on SiO2 content
7d	Any beneficiation process at mines .		Being carried out as per proposal.	8-10 % reduction in SiO2 achieved.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-		Mineral Conservation & Beneficiation activities were found satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	removal	No topsoil removed during the year	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Topsoil stacked earlier utilised in afforestation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB proposed to be backfilled into mined out areas	OB backfilled into mined out areas	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB proposed to be backfilled into mined out areas	OB backfilled into mined out areas	-do-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed over mined out areas. Afforestation proposed over waste land.	Backfilling carried out over mined out areas. Afforestation carried out over waste land.	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1,100 nos saplings proposed to be planted during the year	1,200 nos sapling planted during the year	62,337 nos saplings planted cumulatively
8g	Survival rate	Not specified	85 %	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Water Tanker deployed for water sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines was found satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager T.Sureshkumar Mining Engineer in charge J.Iyyappan Geologist in charge R.Balamurugan	Given in Part I, Sl 7-9	Nil

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9c
       Scrutiny of
                         (i) Already
                                        Given in Part I, Sl 12
                                                                   Nil
       Annual return on exploited &
       land use pattern abandoned by
       for area under
                         opencast (O/C)
       pits, reclaimed mining 0.000
       area, dumps etc. 0.000 0.000
                         (ii) Covered
                         under current
                         (O/C)
                         Workings 0.000
                         38.315 38.315
                         (iii)
                         Reclaimed/Reha
                         bilitated
                         0.000 13.845
                         13.845
                         (iv) Used for
                         waste disposal
                         0.000 3.160
                         3.160
                         (v) Occupied
                         by plant,
                         buildings,
                         residential,
                         welfare
                         buildings &
                         roads 0.000
                         9.506 9.506
                         (vi) Other
                         Purpose (Green
                         belt and
                         Remaining
                         area) 0.000
                         25.049 25.049
9d
       Scrutiny of
                         4.4 (a) Within Given in Part V, Sl. 4.4
       Annual return on lease area (b)
       afforestation
                         Outside lease
                         area
                         (i) Number of
                         trees planted
                         during the
                         year 1200 0
                         (ii) Survival
                         rate in
                         percentage
                         85.00 0
9e
       Scrutiny of
                                        Given in Part V, Sl. 4.2
                         4.2 Opencast
                                                                     Nil
       Annual return on 4.2(B) (ii)
       mineral reject
                         Mineral
       generation
                         Rejects
       (Grade and
                         generated with
       quantity)
                         grades
                         (tonnes)
                         a. Quantity 0
                         b. Grade 0
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9f	Scrutiny of Annual return on ROM stock and/or graded ore		Given in Part VI, Sl 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price & Cost of Production - Rs 442.90 per tonne	Given in Part VI, Sl 2 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Net Total Closing Balance - Rs 1,22,25,02,271	Given in Part II A Capital Structure	Nil
9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SURFACE MINER 1050.000 HP 1 Non Electrical Opencast 0.000 0 0.000 0 OTHERS (NON-ELEC.) 114.000 2 Non Electrical Opencast 0.000 0	Given in Part V, Sl 5	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation	n observed	Show couse position	
Rule NO.	Issued on Compliance or	Rule NO.	Issued on Compliance on
MCDR17 Rule 34(1)	31/03/2023		

Date: (Matiul Islam)

Indian Bureau of Mines