

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PBR/LST-49.MDS

Mine code : 38TMN24041

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr J Ravi & Mr. K Elansurian
Official with
Designation
- (iv) Date of Inspection : 22/09/2023
- (v) Prev.inspection date : 03/09/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANAKUDAYAN(14.685HA)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : PERAMBALUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 044-28478676
E-mail : vssm@ramcocements.co.in
Phone : 044-28478666
- (f) Police Station : Dalavoi
- (g) First opening date : 09/12/2004
- (h) Weekly day of rest : SUN
2. Address for : AURAS CORPORATE CENTRE, V FLOOR
correspondance 98-A, RADHAKRISHNAN ROAD
MYLAPORE CHENNAI- 4
3. (a) Lease Number : TMN0935
(b) Lease area : 14.69
(c) Period of lease : 50
(d) Date of Expiry : 23/08/2054
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.VENKETRAMA RAJA
 98-A,AURAS CORPORATE CENTRE
 RADHAKRISHNAN
 SALAI,MYLAPORE CHENNAI
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : ASHISH KUMAR SRIVASTAVA
 ALATHIYUR CEMENT WORKS
 CEMENT NAGAR POST ARIYALUR
 DT. ARIYALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer
 Name : Kattkuri Aravind Reddy,Full Time
 Qualification : B TECH-MINING
 Appointment/ : 21/03/2019
 Termination date

Mining Engineer
 Name : P.Prabhu,Full Time
 Qualification : BE Mining
 Appointment/ : 12/05/2022
 Termination date

Geologist
 Name : D. Ignatius Anthony,Full Time
 Qualification : M. Sc. (Geology)
 Appointment/ : 01/10/2019 21/03/2022
 Termination date

Geologist
 Name : R BALAMURUGAN,Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 21/03/2022
 Termination date

Manager
 Name : S.Durai Murugan
 Qualification : B TECH MINING WITH FCC
 Appointment/ : 26/03/2018 21/03/2022
 Termination date

Manager
 Name : T.Suresh Kumar
 Qualification : Dip Mining Engineering&First class Manag

Appointment/ : 21/03/2022
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	06/01/1999
		Modif.of approved Mining Plan	12/08/2005
		Mining Scheme rule 12 MCDR1988	28/08/2009
		Mining Scheme rule 12 MCDR1988	22/04/2014
		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	Nil	Nil	Lease already fully explored upto G1 level.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserve as on 01/04/20	50,280 tonnes	82,766 tonnes	-do-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Lease already fully explored upto G1 level. Geology & exploration of the lease were found satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML 1 to 3 200-500	ML 1 to 3 200-500	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil-1, Overburden-1, Mineral-3	Topsoil-1, Overburden-1, Mineral-3	Separate benched proposed & maintained
2c	Stripping ratio or ore to OB ratio	1 : 0.12	1 : 0.13	Negligible deviation
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	3,428 cu.m.	2,317 cu.m.	Within limit

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development of the pit w.r.t. was found satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit worked	As proposed
3b	Quantity of ROM mineral production proposed	49,930 tonnes	31,827 tonnes	Violation pointed out for deviation
3c	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
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Non-conventional mining using Surface Miners proposed & carried out.

3k	Provision of mining machineries in mineral benches	Shovel (Hydraulic)-1, Tipper-3	Shovel (Hydraulic)-1, Tipper-3	As proposed
3l	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 for method of mining
3m	Total area covered under excavation/pits	7.3 Ha (Till the end of current plan period)	4.776 Ha (Till 2022-23)	Within proposed extent
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.12	1 : 0.13	-do-
3o	Total area put in use under different heads at the end of year	Minedout land - 7.3 Reclaimed - 2.775 Used of Waste Disposal - 0.91 Road & Infra - 0.3 Ha Other - 3.4 Ha	Minedout land - 4.776 Reclaimed - 4.116 Used of Waste Disposal - 0.207 Road & Infra - 0.553 Ha Other - 5.033 Ha	Within the proposed limits
3p	Production of ROM mineral during the last five year period as applicable	2018-19 29,400 2019-20 49,930 2020-21 49,930 2021-22 49,930 2022-23 49,930	2018-19 26,084 2019-20 48,507 2020-21 38,850 2021-22 46,764 2022-23 31,827	-do-
3q	General remarks of inspecting officers on method of mining etc.	-	-	Violation pointed out for deviation from ROM proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil proposed	Separate dumping of top soil carried out	No OB/MR removal envisaged or carried out
4b	Location of topsoil, OB and mineral reject dumps	Topsoil ML 3 - 4 0 to 100	Topsoil ML 3 - 4 0 to 100	As proposed

4c	Number of dumps within lease area and outside of lease area	1 dump	1 dump	Within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As proposed
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland drain maintained	As proposed
4i	Length of Retaining wall or garland drain all along dumps	Not specified	420 mts	Maintained through regular desilting
4j	Number of settling ponds	1	1	Existing settling pond desilted regularly
4k	Specific comments of inspecting officer on waste dump management	-	-	Only Top Soil dump being maintained. Dump management 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.	Full extraction of mineral from mined out area proposed before starting backfilling	Full extraction of mineral from mined out area carried out before starting backfiling	As proposed
5b	Area under backfilling of mined out area	0.02 Ha	0.02 Ha	-do-

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of top soil proposed	Concurrent use of top soil carried out	-do-
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 time and correctly. Rule 23 E(2).	Proposed	Submitted	Along with AR
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	0.20 Ha	0.188 Ha	Negligible deviation
6d	No. of saplings planted during the year	300 nos	300 nos	As proposed
6e	Cumulative no .of plants	1500 nos proposed during current plan period	15,105 nos planted cumulatively since inception	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 2,37,000/-	Rs 2,59,000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.02 Ha	0.02 Ha	As proposed

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.02 Ha	0.02 Ha	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	300 nos	300 nos	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	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	Carried out periodically	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.
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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 soting 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.	High Grade, Low grade, Very low grade, Very very low grade	High Grade, Low grade, Very low grade, Very very low grade	-do-
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Entire ROM generated is consumed. No issues observed with mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	As proposed
8b	Concurrent use or storage of topsoil	Proposed	Carried out	-do-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only backfilling is proposed	Only backfilling is carried out	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Carried out	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500 nos of saplings proposed to be planted during the current plan period	15,105 nos saplings planted cumulatively since inception	-do-
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 area 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	7. Manager : R.Naren 8. Mining Engineer in charge: P.Prabhu 9. Geologist in charge : R.Balamurugan	Given in Part I, Sl 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O-C) Workings 0.000 4.776 4.776 (iii) Reclaimed-rehabilitated 0.000 4.116 4.116 (iv) Used for waste disposal 0.000 0.207 0.207 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.553 0.553 (vi) Used for any other purpose (specify) Green belt and Remaining area 0.000 5.033 5.033	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	Description Within lease area Outside lease area i) Number of trees planted during the year 300 0 ii) Survival rate in percentage 85 0 iii) Total no. of trees at the end of the year 15405 0	Given in Part V, Sl 5	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Category Opening stock Production Closing stock (a) Open Cast workings 0.000 31827.380 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump workings 0.000 0.000 0.000	Given in Part VI, Sl 1 & 3(ii)	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price & Cost of Production - Rs 409.58/- per tonne	Given in Part VI, Sl 3(ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Furnished combinedly with another mine bearing code 38TMN38006	Given in Part II A Capital Structure	Nil

9k	Scrutiny of Annual return on mining machineries	ype of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Non- electrical (specify) Used in opencast underground (specify) SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast TIPPER 12.000 CUM 3 Non Electrical Opencast	Given in Part V, Sl 6	Nil
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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 :

(Matiul Islam)

Indian Bureau of Mines