

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

FMCP Inspection REPORT

Chennai regional office

Mine file No : TN/PBR/LST-58/MDS

Mine code : 38TMN38007

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. R.Ravikumar (DGM - Mines), Mr.S.Srinivasan (Geolo
Official with
Designation
- (iv) Date of Inspection : 03/08/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PUDUPALAYAM(37HA)**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : ARIYALUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 044-28291558, 04329-247726
E-mail : arymines@chettinadcement.co
Phone : 044-28292727, 04329-249770
- (f) Police Station : Vikramangalam, ARIYALUR
- (g) First opening date : 11/01/1989
- (h) Weekly day of rest : SUN
2. Address for : RANI SEETHAI HALL BUILDING
correspondance : POST BOXNO.748, 603-ANNA SALAI
CHENNAI-600006
3. (a) Lease Number : TMN1037
- (b) Lease area : 37
- (c) Period of lease : 20
- (d) Date of Expiry : 08/02/2009
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : CHETTINAD CEMENT CORPORATION LIMITED
 4TH FLOOR, RANI SEETHAI
 HALL BLDG 603, ANNA SALAI
 CHENNAI CITY TAMIL NADU
 Phone:044-28292727, 42149955
 FAX :044 - 28291558

Owner : Mohan Muthukaruppan
 M/s. Chettinad Cement Corpn
 (P) Ltd 4th Floor, Sigappi
 Aachi Building 18/3
 RukmaniLakshipathyRoad,Egmo
 re CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : V. KRISHNAN
 Chettinad Cement Corp Pvt
 Ltd Ariyalur Works,
 Keelapalur Post Ariyalur
 Taluk & Distt ARIYALUR
 TAMIL NADU
 Phone: 9788858216
 FAX :

Mining Engineer

Name : M.RAMESH,Full Time
 Qualification : BE Mining
 Appointment/ :
 Termination date

Geologist

Name : M.L.BALASHANMUGAM,Full Time
 Qualification : MSC(GEOLOGY)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	19/10/2006
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	11/03/2008
	:	Modif.of approved Mining Plan	09/10/2009
	:	Mining Scheme rule 12 MCDR1988	24/06/2014
	:	MP review under 17(1) MCR 2016	09/04/2019

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	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	1,000 tonnes (Reserves as per last approved ROMP - Proposed depletion over the years)	6,628 tonnes (As furnished in the Annual Return)	Reserve depletion over the years not as per proposal due to non-operation for various reasons.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The lessee has revised the resource calculation based on exploration carried out in year 2021-22 and submitted the same in the draft FMCP currently being processed.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No development envisaged for the year	Nil	Notice for Temporary Discontinuance from 18.08.2023 already submitted by lessee.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	Separate benches maintained	-do-
2c	Stripping ratio or ore to OB ratio	1:00	1:00	-do-
2d	Quantity of topsoil generation in m3	Nil	Nil	-do-
2e	Quantity of overburden generation in m3	Nil	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Notice for Temporary Discontinuance from 18.08.2023 already submitted by lessee. No development envisaged for the year 2022-23.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Mine temporarily discontinued since 18.08.2022. Form E submitted to IBM.
3b	Quantity of ROM mineral production proposed	2000 Ts	1514 Ts	-do-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-do-
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 Method	Mechanised Method	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	Nil
3k	Provision of mining machineries in mineral benches	Rock breaker 2.1 cum 1 Hydraulic excavator 1.0 m3 1 Tipper 25T 3	Rock breaker 2.1 cum 1 Hydraulic excavator 1.0 m3 1 Tipper 25T 3	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height - 5m, Bench Width - 5m	Bench Height - 5m, Bench Width - 5m	Nil
3m	Total area covered under excavation/pits	24.88 Ha	24.88 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:00	1:00	Nil
3o	Total area put in use under different heads at the end of year	Pit - 24.88 Ha Dump - 1.98 Ha Backfilling - 5.014 Ha	Pit - 24.88 Ha Dump - 1.98 Ha Backfilling - 5.014 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20- 280000 Ts 2020-21- 4000Ts 2021-22- 4000 Ts 2022-23- 2000 Ts	2019-20-279818.74Ts 2020-21- 3039.18Ts 2021-22- Nil 2022-23- 1514 Ts	Nil

3q	General remarks of inspecting officers on method of mining etc.	-	-	Mine temporarily discontinued since 18.08.2022. Form E submitted to IBM.
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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 or Rejecs generation envisaged for the year.	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	Nil
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	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	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	No Topsoil, OB or Rejecs generation envisaged or carried out during the year. No dump in the lease area.

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.	No proposal	Nil	Nil
5b	Area under backfilling of mined out area	NA	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No backfilling or reclamation was proposed or carried out.

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	Submitted	Submitted along with AR.
6b	Area available for rehabilitation (ha) .	0.25 Ha	Nil	Violation of Rule 11(1) already issued after previous inspection on 10/07/2023.
6c	afforestation done (ha).	0.25 Ha	Nil	-do-
6d	No. of saplings planted during the year	3,800 numbers	Nil	-do-
6e	Cumulative no .of plants	15,200 numbers	12,827 numbers	-do-
6f	Any other method of rehabilitation	Nil	Nil	-do-

6g	Cost incurred on watch and care during the year	Rs 2.0 lakhs	Nil	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	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 on backfilled area	NA	NA	Nil
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	No proposal	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	Periodical monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation of Rule 11(1) already issued after previous inspection on 10/07/2023 for inadequate afforestation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2000 tons of ROM despatch proposed	1514 tons of ROM despatched	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method	Mechanised method	Nil
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	Nil
7d	Any beneficiation process at mines	No proposal	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No issues observed with Mineral Conservation. No beneficiation proposed or carried out. Entire ROM generated is consumed captively.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil generation envisaged for the year	Nil	Nil
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB, Waste, Rejects or Fines generation envisaged for the year.	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3,800 nos saplings proposed for the year	Nil	Violation of Rule 11(1) issued after previous inspection on 10/07/2023.
8g	Survival rate	Not specified	NA	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out using water tanker	Nil
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
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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 & Mining Engineer - Shri. E. Ganesha Moorthy Geologist - Shri.S. Srinivasvan	Given in Part 1, Sl No 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) workings - 26.456 Ha Reclaimed-Rehabilitated - 5.014 Ha Occupied by plant, buildings, residential, welfare buildings and roads - 0.45 Ha Green Belt & Safety Zone - 5.08	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	Nil	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 4.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Production - 1513.86 Tonnes	Given in Part VI, Sl 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine Price - Rs 210.50/- Cost of Production - Rs 300.10/-	Given in Part VI, Sl 2 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 25,00,000/-	Given in Part II A Capital Structure	Nil

9k	Scrutiny of Annual return on mining machineries	Tipper, Backhoe & Other HEM Machinery	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