

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

MCDR inspection REPORT

Chennai regional office

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

Mine code : 38TMN38007

- (i) Name of the Inspecting : **G039**) **G.C.Sethi**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Thiru. S.Ramesh, GM-Mines
Official with
Designation
- (iv) Date of Inspection : 10/07/2023
- (v) Prev.inspection date : 06/09/2022

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	No Proposal	No Exploration done during 2022-23	Nil
1b	Exploration over lease area for geological axis 1 or 2	Geological axis - 1.	Geological axis - 1.	Entire lease area is under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	Nil	Entire area has been explored under G-1 category with 100m X 100m grid interval.
1e	Balance reserve as on 01/04/20	291000 tons as per the ROMP approved on 09.04.2019 for the proposed period from 2019-20 to 2023-24	6628 tons as per the 2022-23 annual return.	Cement Grade Limestone.
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Entire area has been explored up to G1 level.	Entire ML area has been drilled and proved.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No Proposal for development in the overburden/waste zone.	Nil	Form-E, Temporary Discontinuance notice has been submitted on 18.08.2023
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Topsoil exist in the mine	Nil	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.0	1 : 0.0	Nil

2d	Quantity of topsoil generation in m3	No Topsoil exist	No topsoil generated during 2022-23	Nil
2e	Quantity of overburden generation in m3	No Proposal for waste/overburden generation in 2022-23	No Topsoil generated during 2022-23	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	No development has been proposed in approved plan in 2022-23. The proposal is confined to production only.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Nil
3b	Quantity of ROM mineral production proposed	2000 tons	1514 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	Not Proposed	100% Recovery	Nil
3d	Quantity of mineral reject generation	No Proposal for Mineral Reject generation in 2022-23	Not generated during 2022-23	Not Applicable
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Not generated	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil	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.	Not applicable	No beneficiation facility available in the mine	Nil
3j	Provision of drilling and blasting in mineral benches	No Proposal	Nil	Not applicable
3k	Provision of mining machineries in mineral benches	Excavator, Backhoe, Tippers, Rock Breakers Dozer	As proposed the machineries are deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height - 5m and width 5- m	Bench height -5m and width 5- m	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 : 0.0	1 : 0.0	Nil
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Mines = 24.88 hect Dump = 1.98 hect Backfilled area = 5.014 hect	Land use Pattern as on 01.04.2023. Mines = 24.88 hect Dump = 1.98 hect Backfilled area = 5.014 hect	Nil
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = 2000 tons 2021-2022 = 4000 tons 2020-2021 = 4000 tons 2019-2020 = 280000 tons 2018-2019 = 81943 tons	2022-2023 = 1514 tons 2021-2022 = Nil 2020-2021 = 3039 tons 2019-2020 = 279818 tons 2018-2019 = 93273 tons	Less limestone production due to more quality.

3q	General remarks of inspecting officers on method of mining etc.	Nil	Mining operation is being done by opencast mechanised means.	Nil
----	---	-----	--	-----

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Dumping proposal	Dumping not in practice	Nil
4b	Location of topsoil, OB and mineral reject dumps	No Dumping proposal	Not done as there is no generation of waste during 2022-23	Nil
4c	Number of dumps within lease area and outside of lease area	No dump with in lease	No dump with in lease	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	Nil
4e	Number of active and alive dumps.	No such Proposal	Nil	Nil
4f	Number of dead dumps.	No such Proposal	Nil	Nil
4g	Number of dumps established.	No such Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal, as there is no proposal for waste dumping in the ROMP.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Dumping not in practice and no dumping in the lease area.	Nil

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	Not applicable
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	No Topsoil generated during 2022-23.	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal for reclamation in 2022-23	Not reclaimed any pit.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	5.014 hectares of backfilled area is existing within the lease, which have been done during previous years of the mining operation.	Nil

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	PMCP report for the year 2022-23 has been submitted
6b	Area available for rehabilitation (ha) .	0.25 ha	Nil	Violation issued under Rule 11(1) of MCDR, 2017.
6c	afforestation done (ha).	0.25 ha	Nil	Violation issued under Rule 11(1) of MCDR, 2017.
6d	No. of saplings planted during the year	3800 nos	Nil	Violation issued under Rule 11(1) of MCDR, 2017.
6e	Cumulative no .of plants	15200 nos	12827 nos	Nil
6f	Any other method of rehabilitation	Plantation on backfilled area	No Plantation done over the backfilled area	Nil

6g	Cost incurred on watch and care during the year	2.00 lakhs	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such Proposal	Not applicable	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such Proposal	Not applicable	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such Proposal	Not applicable	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such Proposal	Nil	Not applicable

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal.	Not applicable	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Periodical monitoring of all the environmental parameters.	Environmental parameters are within the permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Environmental monitoring is being done in quarterly basis all parameters for ambient air, water, noise, vibration are within the permissible limits.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2000 tons	1523 tons	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	No beneficiation of mineral is involved.	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	The limestone are produced from the mine is utilized for cement making in the captive plant of the company. So, there is no mineral conservation problem in the mine.	Nil

Environment:

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

8a	Separate removal and utilization of topsoil (Rule 32)	No such Proposal for topsoil generation.	Not generated in 2022-23.	Nil
8b	Concurrent use or storage of topsoil	No Proposal	Not applicable	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such dumping Proposal in 2022-23	No dumping is being practiced.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Such Proposal	No waste generated during 2022-23	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Not applicable	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3800 saplings proposed.	Nil	Violation issued under Rule 11(1) of MCDR, 2017.
8g	Survival rate	Not generated	No plantation done during 2022-23	Violation issued under Rule 11(1) of MCDR, 2017.
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in the haul road.	Water Sprinkling is being done on roads to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Water Sprinkling is being done on roads to control airborne dust.	Nil

Compliance of Rule 45:

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

9a	Status of submission of Monthly and Annual returns	Submitted	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager, Geologist & mining engineer are appointed.	During inspection Mining Engineer, Geologist is present.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 26.456ha; Reclaimed - Rehabilitated 5.014ha; Occupied by plant, buildings, residential, welfare buildings & roads-0.450ha; Other Purpose (Green Belt , Safety Zone & Others)- 5.080ha;	Furnished under part- I.	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Furnished under part-V.	Violation issued under Rule 11(1) of MCDR, 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Furnished in part- V, of 4	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1513 tons	Furnished in part- VI	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs.300/-	Furnished in part- VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.2500000/-	Furnished in part- II-A	Nil
9k	Scrutiny of Annual return on mining machineries	Backhoe, Tipper, Other HEM machinery	Furnished in part- V sec 6	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
MCDR17	Rule 11(1)	13/07/2023			
MCDR17	Rule 35(2)	13/07/2023			

Date :

(G.C.Sethi)

Indian Bureau of Mines