

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/MDR/LST-1, MDS

Mine code : 38TMN17001

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : MM Ramesh AGM(mines) & Stalin prakash, Sr.Geologis
Official with
Designation
- (iv) Date of Inspection : 26/12/2023
- (v) Prev.inspection date : 04/12/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SEETHAINAGAR**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : DINDIGUL
- Village : ALAMBADI
- Taluka : VEDASANDUR
- Post office : ALAMBADI MINES
- Pin Code : 624620
- FAX No. : 04320 - 251320
- E-mail : info@chettinadcement.com
- Phone : 04320 - 234240 / 04551 - 2'
- (f) Police Station : VEDASANDUR
- (g) First opening date : 01/11/1967
- (h) Weekly day of rest : SUN
2. Address for : CHETTINADU CEMENTS CORPORATION LTD,
correspondance SEETHAINAGAR LIMESTONE MINE,
ALAMBADI MINES (POST), DINDIGUL DIST-624703
3. (a) Lease Number : TMN0002
- (b) Lease area : 251.82
- (c) Period of lease : 6
- (d) Date of Expiry : 06/09/1991
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 : L.Murhukrishnan
 Rani Seethai Hall ,Anna
 Salai, Chennai CHENNAI
 CITY TAMIL NADU
 Phone: 914442149955,42
 FAX : 914428291558

Agent : V.KRISHNAN
 M/s Chettinad Cement Coprn
 (P) Ltd. 6 th Floor ,Rani
 Seethai Hall Build Chennai
 ARIYALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : T.ENIYAN,Full Time
 Qualification : BE Mining
 Appointment/ : 16/10/2018
 Termination date

Geologist

Name : M.STALIN PRAKASH,Full Time
 Qualification : M.SC gEOLGY
 Appointment/ : 15/10/2018
 Termination date

Manager

Name : M.Mayilrajan
 Qualification : BE Mining with FCC
 Appointment/ : 17/08/2018
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	14/07/1988
		Fresh under rule 22 MCR1960	29/03/2001
		Mining Scheme rule 12 MCDR1988	04/12/2002
		Mining Scheme rule 12 MCDR1988	02/08/2006
		Renewal under rule 24 MCR1960	05/05/2008
		Modif.of approved Mining Plan	03/06/2010
		Mining Scheme rule 12 MCDR1988	30/01/2012
		Modif.approved Mining Scheme	19/05/2015
		Mining Scheme rule 12 MCDR1988	23/02/2016
		MP modif under 17(3) MCR 2016	16/07/2018
		MP modif under 17(3) MCR 2016	19/08/2020
		MP review under 17(1) MCR 2016	10/12/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	The area is fully explored under G1 category. However to prove the existence of limestone in Sami pit & New pit , we have completed 5 bore holes each 50 mtrs totally 250 mtr completed during the year 2022-23
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	The area is fully explored under G1 category. 5bore holes each 50mtrs totally 250 mtrcompleted during 2022-23.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Rs.3.5 lakhs	Global Environment and Mining Solutions conducted additional 4 core bore holes with 200.00 mtrs. completed during the year 2022-23.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire ML area explored to G1 level.
1e	Balance reserve as on 01/04/20	—	88.23 M.T (111 Category)	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Alambadi Pit: N-1186180 toN-1186550 E-177700toE-178350 Mallapuram Pit: N-1184900 toN-1185550 E-177650 toE-178200 Karikkali-I Pit: N-1185100 toN-1185520 E-178520 toE-178800 Karikkali New Pit: N-1184780 toN-1184920 E-178820 toE-179200 Samy Pit: N-1185000 toN-1185350 E-179100 toE-179450 Karikkali New Pit: N-1184780 toN-1184920 E-178820 toE-179200	Alambadi Pit: N-1186180 toN-1186550 E-177700to E-178350 Mallapuram Pit: N-1184900 toN-1185550 E-177650 toE-178200 Karikkali-I Pit: N-1185100 toN-1185520 E-178520 toE-178800 Karikkali New Pit: N-1184780 toN-1184920 E-178820 toE-179200	Development in sami pit affected due to water logging.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Alambadi Pit: No.of Benches in Ore - 4 No.of Benches in OB -2 Mallapuram Pit: No.of Benches in Ore - 2 Benches in OB -1 I Karikkali Pit: No.of Benches in Ore - 1 No.of Benches in OB -2 Samy pit: No.of Benches in Ore - 1 No.of Benches in OB -2 Karikkali New pit: No.of Benches in Ore - 1 Benches in OB -1	Separate benches maintained as per proposal.	Development in sami pit affected due to water logging.

2c	Stripping ratio or ore to OB ratio	1:1.30	1:1.12	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	6,36,830 m3	3,41,325 m3	Development & production is less due to plant requirement .Violation of Rule 11(1) pointed out.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	Production and Development on Lower side .Violation of Rule 11(1) pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5	5	In sami pit production not done due to water logging.
3b	Quantity of ROM mineral production proposed	19,00,000Ts	11,34,613.795 Ts	Violation of Rule 11(1) pointed out.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	NIL
3d	Quantity of mineral reject generation	8,10,848 Ts	3,80,334Ts	Violation of Rule 11(1) pointed out.
3e	Grade of mineral rejects generation and threshold value declared.	<34 CaO	<34 CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	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	Deep hole drilling and Blasting.	Deep hole drilling and Blasting practiced.	NIL
3k	Provision of mining machineries in mineral benches	Deployment of HEM proposed.	Shovel-5, Tippers-20, Loader -1, Air Compressor-1 Rock drill- 1& Water tanker-1	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m height and 12m width benches proposed.	10 m height and 12m width benches maintained.	NIL
3m	Total area covered under excavation/pits	96.34.6 Hc.	96.34.6 Hc.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:1.30	1:1.12	NIL.
3o	Total area put in use under different heads at the end of year	242.62 Hc.	235.236 Hc.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19- 3003273 Ts 2019-20- 3000680 Ts 2020-21- 3530408Ts 2021-22- 1900000Ts 2022-23- 1900000Ts	2018-19 -1994087 Ts 2019-20-2244364 Ts 2020-21-1601909Ts 2021-22-1421352Ts 2022-23-11,34,613Ts	Violation pointed out.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Method of mining is satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB-4 Dumps E-178150 toE-178300 Dump No.25 N-1185350 toN-1185460 E-179120 toE-179360 Dump No.23 N-1184640 toN-1184870 E-179690 toE-179980	OB-2 Dumps	Violation Pointedout.
4b	Location of topsoil, OB and mineral reject dumps	Dump No.2 N-1185750 toN-1185850 E-177640toE-177790 Dump No.10 N-1184450 toN-1184730 E-178150 toE-178300 Dump No.25 N-1185350 toN-1185460 E-179120 toE-179360 Dump No.23 N-1184640 toN-1184870 E-179690 toE-179980	Dump No.2 N-1185750 toN-1185850 E-177640toE-177790 Dump No.23 N-1184640 toN-1184870 E-179690 toE-179980	Violation Pointedout.
4c	Number of dumps within lease area and outside of lease area	Within lease - 04. Outside lease NIL	Within lease - 02. Outside lease NIL.	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump No.2 N-1185750 toN-1185850 E-177640toE-177790 Dump No.10 N-1184450 toN-1184730 E-178150 toE-178300 Dump No.25 N-1185350 toN-1185460 E-179120 toE-179360 Dump No.23 N-1184640 toN-1184870 E-179690 toE-179980	Dump No.2 N-1185750 toN-1185850 E-177640toE-177790 Dump No.23 N-1184640 toN-1184870 E-179690 toE-179980	Devlopment and production on lower side.
4e	Number of active and alive dumps.	4	2	Violation pointedout.
4f	Number of dead dumps.	NIL	NIL	10 dead dumps available at outside the lease
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	Garland Drainage provided all along the dumps.	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	300 m	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Permission got from State Government to dispose waste under Rule 12(1) K , to make M-sand. waste managed properly.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Backfilling proposed	NIL	NIL
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mine has not reached ultimate pit depth. Waste is disposed under Rule 12(1)(K).

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 on 30.05.2023	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	1500 saplings green belt proposed.	Gap Filling Plantation (1.50 Ha)	NIL
6d	No. of saplings planted during the year	1500	1630	NIL
6e	Cumulative no .of plants	—	100700 No's planted.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	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	NIL	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	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)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Quarterly monitoring report submitted.	Parameters with in limits .
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	No mineral conservation problem, entire Limestone consumed in captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	NIL

8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within lease - 04	Within lease - 02	Production & development on Lowerside. Violation pointed out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	—	100700 No's.	NIL
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling done on haul roads and transit points.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Plantation carried out. Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Monthly returns and AR 2022-23 submitted in time.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Mines manager - M.M.Ramesh Geologist - .StalinPrakash . Mining Engineer - G.Balamurugan -	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Area under pits- 96.346 Ha Area under dumps- 70.100 Ha plant,building,roads etc. - 11.740 Ha. Others - 73.404 Ha.	NIL
9d	Scrutiny of Annual return on afforestation	Details given.	1630 No's.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details.	380334 tonnes.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	1103730.290 tonnes.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Cost of production Rs.362.25	NIL
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.50837789	NIL
9k	Scrutiny of Annual return on mining machineries	Details given.	FRONT END LOADER 0.900 CUM- 1 SHOVEL (HYDRAULIC) 1.900 CUM- 5 TIPPER 9.500 CUM 20 Rock DRILL (NON-ELEC.) 115.000 MM- 1 AIR COMPRESSOR 450.000 CUM/MN -1 EXPLOSIVE VAN 5.000 TONNE -1 WATER TANKER 8000.000 LITRE- 1 PUMPS (ELEC.) 1000.000 L/MN	NIL

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
MCDR17	Rule 11(1)	07/03/2024			

Date :**(D.CHANDRA SEKHAR REDDY)**

Indian Bureau of Mines