

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.M.Mayilrajan General Manager (Mines) & Shri.V.Sa
Official with
Designation
- (iv) Date of Inspection : 03/11/2020
- (v) Prev.inspection date : 18/11/2019

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 : ragunathsingh@chettinadcem
- 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 : G.Raghunathsingh
 DINDIGUL TAMIL NADU
 Phone:
 FAX :

Mining Engineer

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

Mining Engineer

Name : M.Mayilrajan,Full Time
 Qualification : B.E Mining
 Appointment/ : 15/09/2016
 Termination date

Geologist

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

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	14/07/1988
Plan/Scheme of Mining		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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Fully explored, 39 bore holes drilled total meterage of 4299.0mtrs
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine fully explored under G1 category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Holtec Consulting Private Limited conducted total No. of 39 bore holes with 4299.0mtrs depth (Minimum 50mtrs & maximum 181.0mtrs)
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	fully explored under G1 category
1e	Balance reserve as on 01/04/20	96.60 M.T (111 Category)	96.60 M.T (111 Category)	Balance Quantity in reserved category
1f	General remarks of inspecting officers on geology, exploration etc	---	---	Geology, exploration is found to be satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N-1186500 to N-1184900 E-177600 to E-179400	N-1186500 to N-1184900 E-177600 to E-179400	as per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No. of Benches in Overburden- 2 Benches Ore - 3 Benches	No. of Benches in Overburden- 2 Benches Ore - 3 Benches	Followed as per plan

2c	Stripping ratio or ore to OB ratio	1:1.34	1:0.82	During last year 2019-20, we were doing mining as per the approved mining plan. But, due to slump in cement market, the demand for limestone was declined. Considering the economic and cost factors, in order to sustain in tough market conditions, we had worked in mining benches and faces, where the stripping ratio is less. Hence, we could achieve the stripping ratio of 1:0.82
2d	Quantity of topsoil generation in m3	NIL	NA	No topsoil is generated during the plan period
2e	Quantity of overburden generation in m3	NIL	NA	No Over burden. generated during the plan period .
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	---	Development of pit is found to be satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4	4	As per proposal
3b	Quantity of ROM mineral production proposed	30,00,680 Ts	22,44,364 Ts	Within limit
3c	Recovery of sailable/usable mineral from ROM production	30,00,680 Ts	22,44,364 Ts	NIL
3d	Quantity of mineral reject generation	37,95,655 Ts	18,46,828 Ts	Within limit

3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade mineral generation
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	NA	NIL
3j	Provision of drilling and blasting in mineral benches	Yes	Drilling and Blasting is done as per plan	As proposed
3k	Provision of mining machineries in mineral benches	Mining Machineries used	Shovel-7, Dumpers-26, Loader-1, Dozer-1, Air compressor-1 & Water tanker-1 are used	As per plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-10 mtr, Width-10mtr	Height-10 mtr, Width-10mtr	Followed as per plan
3m	Total area covered under excavation/pits	88.72.5 Hect	88.72.5 Hect	As per plan

3n	Ore to OB ratio for the pit/mine during the year.	1:1.34	1:0.82		During last year 2019-20, we were doing mining as per the approved mining plan. But, due to slump in cement market, the demand for limestone was declined. Considering the economic and cost factors, in order to sustain in tough market conditions, we had worked in mining benches and faces, where the stripping ratio is less. Hence, we could achieve the stripping ratio of 1:0.82
3o	Total area put in use under different heads at the end of year	220.89.5 Hect	220.89.5 Hect		As per plan
3p	Production of ROM mineral during the last five year period as applicable	2014-15-3003312 Ts 2015-16-3000000 Ts 2016-17-2997609 Ts 2017-18-2999576 Ts 2018-19-3003273 Ts 2019-20-3000680 Ts	2014-15- 1131781 Ts 2015-16- 1099764 Ts 2016-17-1234033 Ts 2017-18-1287696 Ts 2018-19 -1994087 Ts 2019-20-2244364 Ts		Within limit
3q	General remarks of inspecting officers on method of mining etc.	---	-----		method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Mineral Reject - 4 Dumps	Mineral Reject - 4 Dumps	As per the proposal

4b	Location of topsoil, OB and mineral reject dumps	New Dump-1 & 2 North of Mallapuram pit, New Dump-3-North of Samy Pit & New Dump-4-East of Perumal Rock	New Dump-1 & 2 North of Mallapuram pit, New Dump-3-North of Samy Pit & New Dump-4-East of Perumal Rock	As per the proposal
4c	Number of dumps within lease area and outside of lease area	Within lease - 04	Within lease - 04	As per the proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N-1185900 to N-1184600 E-177600 to E-180000	N-1185900 to N-1184600 E-177600 to E-180000	As per the proposal
4e	Number of active and alive dumps.	Active=4 Alive=5	Active=4 Alive=5	Followed as per plan.
4f	Number of dead dumps.	11	11	The dumps are stable
4g	Number of dumps established.	NIL	NA	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	NIL	1000 mtr	1000 mtr Garland drainage all along the Dump No.2 ,6 & 10)
4j	Number of settling ponds	NIL	NA	NIL
4k	Specific comments of inspecting officer on waste dump management	----	---	waste dump management is found satisfactory

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.	NIL	waste dump management is found satisfactory	Mineral not extracted fully
5b	Area under backfilling of mined out area	NIL	NA	Not Applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NA	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	Backfilling, reclamation does not arise at the stage.

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 in time	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	Noat at this stage
6c	afforestation done (ha).	1.0 Ha	1.0 Ha	As per plan
6d	No. of saplings planted during the year	2000	1800	1110 saplings & survival rate is 75%
6e	Cumulative no .of plants	NIL	95640	NIL
6f	Any other method of rehabilitation	NIL	Na	No other specific method of rehabilitation
6g	Cost incurred on watch and care during the year	NIL	NA	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Na	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NIL	Mineral not Exhausted
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	Water reservoir will be formed after mining is completed
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	No waste land available
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	No waste land available
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	No waste land available

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Proposed	Done Quarterly	Periodically Monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	---	PMCP compliance & progressive closure operations is found to be good.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NA	No sorting at mine head
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	NA	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NA	Mineral conservation & beneficiation issues is found satisfactory

Environment:

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

8b	Concurrent use or storage of topsoil	NIL	NA	No topsoil generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	04	04	Followed as per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000	1800	1110 saplings & survival rate is 75%
8g	Survival rate	80 %	75%	Due to water scarcity and less rainfall
8h	Water sprinkling on roads to control airborne dust	YES	Water sprinkling is done	As per plan
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	---	Aesthetic beauty in and around mines area is found to be good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITEED	M.R. Submitted upto Date 09.10.2020. A.R. submitted upto Date 27.06.2020	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr.Stalin Prakash - Geologist Mr.T.Eniyan - Mining Engineer	Mr.Stalin Prakash - Geologist Mr.T.Eniyan - Mining Engineer	Part-I No. 8&9 & Part-II, employment & wages.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits- 88.725 Ha Area under reclamation- Nil Area under dumps- 63.380 Ha Area under Plant buildings, roads and green belt- 68.79 Ha	Area under pits- 88.725 Ha Area under reclamation- Nil Area under dumps- 63.380 Ha Area under Plant buildings, roads and green belt- 68.79 Ha	Part-I Sl. No 12
9d	Scrutiny of Annual return on afforestation	Given in the format	1110 Nos	Part-I Para 4.4
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	18,46,828 Ts	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	1,37,592.320 Ts	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Rs.304.84	Part - VII(cost of Production)-
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs. 24,14,08,162	Part - III,Sl.No.
9k	Scrutiny of Annual return on mining machineries	Given in the format	Shovel-7, Dumpers-26, Loader -1, Dozer-1, Air Compressor-1 & Water tanker-1	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

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines