

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-25.MDS

Mine code : 38TMN38047

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.M.L.Balashanmugam Dy.Geneneral Manager (Mines)&
Official with
Designation
- (iv) Date of Inspection : 17/02/2020
- (v) Prev.inspection date : 29/06/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SENDURAI**
- (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 : **SENDURAI**
- Taluka : **SENDURAI**
- Post office : **SENDURAI**
- Pin Code : **621714**
- FAX No. : **914329-250011**
- E-mail : **ariyalur@chettinadcement.co**
- Phone : **914329-250009**
- (f) **Police Station** : **Sendurai**
- (g) **First opening date** : **19/07/2017**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **603,RANI SEETHAIHALL BUILDING**
correspondance **ANNASALAI**
CHENNAI- 600006
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
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 : M/S CHETTINADU CEMENTS CORP.LTD.
 603, ANNA SALAI CHENNAI
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : G.Raghunathsingh
 DINDIGUL TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : Mr.N.Saravanan,Full Time
 Qualification : B.TECH MINING
 Appointment/ : 30/06/2017
 Termination date

Geologist

Name : N BALAKANAN,Full Time
 Qualification : M.SE GEOLOGY
 Appointment/ : 30/06/2017
 Termination date

Manager

Name : B.VIKRAM PYUS
 Qualification : B.TECH-MINING FCC
 Appointment/ : 30/06/2017
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 17/12/2012
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 12/07/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Mine is fully explored under G1 Level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Mine fully explored
1e	Balance reserve as on 01/04/20	1.47 Million Tons up to January 2020.	-	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The 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-144750 to N-145964 E-302320 to E-302617	N-144750 to N-145964 E-302320 to E-302617	As per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	1 Nos of bench waste	Nil
2c	Stripping ratio or ore to OB ratio	1:0.55	1:0.55	Nil
2d	Quantity of topsoil generation in m3	57293	57000	Nil
2e	Quantity of overburden generation in m3	122538	120000	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Development of pit found to be satisfactory
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	328385 Ts	247558 Ts (Up to Jan'2020)	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	Nil	NA	Nil
3f	Quantity of sub grade mineral generation.	Nil	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	Nil	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	Total ROM is used
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	Nil	NA	Non Conventional Mining by Rock Breaker

3k	Provision of mining machineries in mineral benches	Proposed	Provided	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil
3m	Total area covered under excavation/pits	3.695 Ha	3.695 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.55	1: 0.55	Nil
3o	Total area put in use under different heads at the end of year	5.542 Ha	5.542 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 324675 2018-19: 326149 2019-20: 328385	2017-18 : 329252 2018-19 : 326152 2019-20: 247558 up to January 2020.	Mine opened 19.07.2017
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)	Top soil-1	Top soil-1	As per the proposal
4b	Location of topsoil, OB and mineral reject dumps	Top Soil dump 1- Eastern side	Dumped inside ML on East	As per the proposal
4c	Number of dumps within lease area and outside of lease area	Within ML : 2 Outside ML: Nil	Within ML : 2 Outside ML: Nil	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Top Soil- N-144750 to N-145964 E-302320 to E-302617	Top Soil- N-144750 to N-145964 E-302320 to E-302617	As per the proposal
4e	Number of active and alive dumps.	2	1	-
4f	Number of dead dumps.	1	1	Nil
4g	Number of dumps established.	1	1	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain	Garland drain made along the periphery dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	574 m3	600m3	NIL
4j	Number of settling ponds	574 m3	600m3	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
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Will be Fully Extracted	Fully Extracted	Nil
5b	Area under backfilling of mined out area	0.426 Ha	0.426 Ha	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.	-	-	Backfilling is under progress
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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).	Periodically Submitted	For the 18-19 Annual returns on PMCP submitted	Submitted in time
6b	Area available for rehabilitation (ha) .	0.426 Ha.	0.426 Ha	As the proposal
6c	afforestation done (ha).	0.30Ha	0.30 Ha	As per proposal
6d	No. of saplings planted during the year	2000	2150	As per proposal
6e	Cumulative no .of plants	6000	7000	As per proposal
6f	Any other method of rehabilitation	Nil	Nil	No method of rehabilitation
6g	Cost incurred on watch and care during the year	Rs 75,000	Rs 85,000	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	122538 T	122538 T	As per the proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	NA	Backfilling under progress

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	NA	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	No proposal
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	No waste land
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	No waste land
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)	Periodically Monitored	Periodically Monitored	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Backfilling is under progress

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral Dispatched	ROM Mineral Dispatched	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	No mineral sorting at mine head
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Not applicable
7d	Any beneficiation process at mines	Nil	Nil	No beneficiation at mine head
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Mineral Conservation is found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	The top soil utilized for afforestation	As per proposal
8b	Concurrent use or storage of topsoil	46334 T Dumped on Eastern side and 11584 T used for Afforestation	46334 T Dumped on Eastern side and 11584 T used for Afforestation	As per the proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1	1	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For backfilling	In progress	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	For backfilling	In Progress	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	6000	7000	Nil
8g	Survival rate	80%	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads. Proposed	Complied	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area found good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Date 04.04.2019. A.R. submitted upto Date 21.06.2019	-	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mining Engineer- Shri. K.Karthigeyan & Geologist. -Shri. N.Balakannan.	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	5.330	Part-I Sl.No.12

9d	Scrutiny of Annual return on afforestation	Given in the format	2000	Part -V para 4.4
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	Nil	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	Nl	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex. Mine price =229.40	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs.7315000	PART III, Sl.No. 4
9k	Scrutiny of Annual return on mining machineries	Given in the format	Back Hoe-2 Nos Tipper -10 Nos Other-1 Nos	PART - V (General Geology & Mining) Sl.No.5

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