

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/PBR/LST-53.MDS

Mine code : 38TMN24047

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.M.L.Balashanmugam DGM mines,& m.M.Ramesh mines m
Official with
Designation
- (iv) Date of Inspection : 19/08/2019
- (v) Prev.inspection date : 28/02/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALANTHURAIYAR KATTALAI_22**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village : ALANTHURAIYAR KATTAL
- Taluka : ARIYALUR
- Post office : ARIYALUR
- Pin Code : 621707
- FAX No. : 04329-247726
- E-mail : mayilrajan.m@chettinadcemei
- Phone : 04329-249770
- (f) **Police Station** : Vikramangalam
- (g) **First opening date** : 29/11/2006
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : G.M. (Mines)
CHETTINAD CEMENT CORPORATION LIMITED
Ariyalur Works. Ariyalur
3. (a) **Lease Number** : TMN1049
- (b) **Lease area** : 22.26
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 21/12/0206
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 : SP.ST.PALANIAPPAN , MD
 RANISEETHAI HALL ANNASALAI
 CHENNAI CITY TAMIL NADU
 Phone: 044- 28292727
 FAX : 04428291558

Agent : K. KASIRAJAN
 603, Anna Salai, Chettinad
 cements Corp Ltd CHENNAI
 CITY TAMIL NADU
 Phone: 9788858200, 04329-247726
 FAX : 04329-247726

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	17/09/2003
Plan/Scheme of Mining		Modif.of approved Mining Plan	27/12/2006
		Modif.of approved Mining Plan	09/10/2009
		Mining Scheme rule 12 MCDR1988	05/07/2011
		Mining Scheme rule 12 MCDR1988	29/01/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Backlog	Exploration fully under G1 level	12 Nos core drill Total meterage of 162.5m of 100x100 grid interval
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine fully Explored in G1 Level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine fully Explored in G1 Level
1e	Balance reserve as on 01/04/20	---	1.32Million Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	----	The geology, exploration is found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NIL	NIL	No development during the year 2018-19, only production
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NA	Separate benches in topsoil, overburden are being followed
2c	Stripping ratio or ore to OB ratio	1:0	1:0	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	No overburden generation during the proposed years.
2e	Quantity of overburden generation in m3	NIL	Not applicable	No overburden generation during the proposed years

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	nil
3b	Quantity of ROM mineral production proposed	500000 Ts	499970 Ts	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NA	nil
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	No Mineral reject generation
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	NIL	NA	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No beneficiation carried out
3j	Provision of drilling and blasting in mineral benches	NIL	NA	Non Conventional Mining by Rock

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	Height -5m Width-more than height of the bench	Height -5m Width-more than height of the bench	No changes
3m	Total area covered under excavation/pits	19.40 Ha	19.40 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0	1: 0	NIL
3o	Total area put in use under different heads at the end of year	21.50 Ha	21.50 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 500000 2015-16: 500000 2016-17: 500000 2017-18: 500000 2018-19: 500000	2014-15: 496873 2015-16: 499986 2016-17: 435048 2017-18: 499661 2018-19: 499970	nil
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)	NIL	NA	No topsoil and OB genertion
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	No topsoil and OB genertion

4c	Number of dumps within lease area and outside of lease area	NIL	NA	I existing dump out side the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	NIL
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	1	1	Stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland Garland	drain drain	Garland drain made along the periphery dump.
4i	Length of Retaining wall or garland drain all along dumps	Garland	drain 150mts	nil
4j	Number of settling ponds	nil	NIL	settling ponds not proposed
4k	Specific comments of inspecting officer on waste dump management	---	----	No waste generation, 100 % recovery

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.	NIL	NA	Mineral is not full extraction
5b	Area under backfilling of mined out area	NIL	NA	Mineral is not full extraction
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No top soil generation during the year

5d	Total area fully reclaimed and rehabilitated	NIL	NA	No backfilling, reclamation at this stage
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	---	No backfilling, reclamation at this 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	2018-19 Annual returns on PMCP submitted	NIL
6b	Area available for rehabilitation (ha) .	NIL	NA	Minerla not exhasted
6c	afforestation done (ha).	0.3Ha	1.0Ha	nil
6d	No. of saplings planted during the year	100	3500	NIL
6e	Cumulative no .of plants	7100	18000	
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	Rs.30000	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	Not Applicable	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Not Applicable	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	NIL
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	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	Not at this stage
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	No waste land within the lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	No waste land within the lease area
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.	---*	----	PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	No sorting at mine head
7c	Different grade of mineral sorted out at mines.	NIL	NA	No Different grade of mineral
7d	Any beneficiation process at mines	NA	NA	No beneficiation process at mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	--	Mineral conservation & beneficiation is found sAtisfactory

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)			
8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generation
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	nil	NA	Mineral not exhausted

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	Not at this satage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100	2000	nil
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on haul roads. Proposed complied	Water sprinkling carrier out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	---	Aesthetic beauty in and around mines area is found satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	submitted	M.R. Submitted upto Date 07.08.2019. A.R. submitted upto Date 21.06.2019
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Shri.M.M.Ramesh, Mines manager Shri.M.M.Ramesh, Mining Engineer	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	Total area covered under excavation 19.40 hect Building and office etc =0.80 hect Greenbelt 0.40 hect	No waste dump with in the lease area.

9d	Scrutiny of Annual return on afforestation	Furnished as per the format	No. of saplings planted during the year 3500nos	work found satisfactory
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	Not applicable	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	Production 2018-19 =499970 tonn, same has been dispatched to the plant. No stock at Mine head	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex mine price Rs.230/t, No sale value, since it is captive mines & the cost of production is Rs253/t	Nil
9h	Scrutiny of Annual return on fixed assets	Given in the format	Reported nil	nil
9k	Scrutiny of Annual return on mining machineries	Given in the format	As per the usage of machineries, the same thing reported	Yes reported accordingly

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(2)	16/09/2019	09/03/2020			

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines