

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. MARIA BARLAND-MANAGER & MR RAMESH-MINING ENGINEER
Official with
Designation
- (iv) Date of Inspection : 07-JUL-17
- (v) Prev.inspection date : 07-MAR-17

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-NOV-06
- (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** : 28-NOV-26
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-SEP-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	27-DEC-06
		Modif.of approved Mining Plan	09-OCT-09
		Mining Scheme rule 12 MCDR1988	05-JUL-11
		Mining Scheme rule 12 MCDR1988	29-JAN-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	G1	G1`	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	2.029 MILLION TONNES	2.029 MILLION TONNES	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY, THE AREA IS FULLY EXPLORED IN G1 CATEGORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NORTH EAST	NORTH EAST	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	MAINTAINED AS PER PROPOSAL	NIL
2c	Stripping ratio or ore to OB ratio	NO OB IN CURRENT YEAR	NO OB	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	NIL	NIL	NIL

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	NIL
3b	Quantity of ROM mineral production proposed	500000 MT	435047 MT	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	LESS THEN 35 % CAO	LESS THEN 35 % CAO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	NIL
3g	Grade of sub grade mineral generation	NA	NA	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.	NO,NA	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	NO	NIL	NIL

3k	Provision of mining machineries in mineral benches	YES,RB,SHOVEL, LOADER, DUMPERS ,WT	YES,RB,SHOVEL, LOADER, DUMPERS ,WT	DEPLOYED AS PROPOSED
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES 5-6MTR	YES 5-6 MTR	MAINTAINED AS PROPOSED
3m	Total area covered under excavation/pits	22.26 HA	22.26HA INCLUDING BARRIER	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:00	1:00	NIL
3o	Total area put in use under different heads at the end of year	MINING AND DUMPS=19.20 ROADS=1.02 GREEN BELT=0.78 OTHERS=1.20	MINING AND DUMPS=19.20 ROADS=1.02 GREEN BELT=0.78 OTHERS=1.20	NIL
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 900000 2012-13: 900000 2013-14: 900000 2014-15: 900000 2015-16: 900000 2016-17: 500000	2011-12: 499949 2012-13: 499943 2013-14: 499945 2014-15: 496873 2015-16 : 499986 2016-17 : 435047	WITHIN LIMIT
3q	General remarks of inspecting officers on method of mining etc.	-	-	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	Top soil & OB dumped separately (OLD)	NIL
4b	Location of topsoil, OB and mineral reject dumps	NIL	WESTERN SIDE OLD DUMP	NIL

4c	Number of dumps within lease area and outside of lease area	NIL	WITHIN ML-NIL OUTSIDE ML-1-OLD DUMP	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WESTERN SIDE OF THE PIT	WESTERN SIDE OF THE PIT	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	2	NIL
4g	Number of dumps established.	NIL	2 BY AFFORESTATION ALONG THE SLOPS	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	GARLAND DRAINS MADE ALOG THE PERIPHERY OF THE DUMP	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	400 MTR GARLAND DRAIN	NIL
4j	Number of settling ponds	NIL	ONE	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	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.	NIL	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.	-	-	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	NOT SUBMITTED	VIOLATION POINTED OUT
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NIL	NIL	NIL
6f	Any other method of rehabilitation	NO	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	NO AREA	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES, QUARTERLY	QUARTERLY BEING DONE	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	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	NOT REQUIRED	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	NOT REQUIRED	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	NA

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	(OLD) STACKED OUT THE LEASE AREA	NIL
8b	Concurrent use or storage of topsoil	NIL	USED FOR AFFORESTATION	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	DUMPED IN PERIPHERY OUTSIDE THE LEASE (VERY OLD)	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	BACKFILLING PROPOSAL AFTER COMPLETE EXHAUSTION OF MINERALS	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 TREES /YEAR	UPTO MARCH 11000 SAPLINGS PLATED IN OLD DUMPS AND OTHER AREAS	-
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	yes	being practiced	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR SUBMITTED IN TIME UPTO MARCH-2017 AR SUBMITTED UPTO 2016-17	--SUBMITTED--	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	GIVEN	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	NIL
9d	Scrutiny of Annual return on afforestation	-	AFFORESTATION DONE	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA/NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK	NO STOCK AT MINES	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CAPTIVE MINE	CAPTIVE MINE PRODUCTION COST GIVEN	NIL
9h	Scrutiny of Annual return on fixed assets	- SAME AS PROPOSED	DEPLOYED AS PROPOSED	NIL
9k	Scrutiny of Annual return on mining machineries	SAME AS PROPOSED	DEPLOYED AS PROPOSED	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 26(2)	04-AUG-17	18-SEP-17			
MCDR17	Rule 31(1)	04-AUG-17				

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines