

**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 : **N005** ) **ANUPAM NANDI**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S.Vaithianthan,DGM(Geology)  
Official with  
Designation
- (iv) Date of Inspection : 20/04/2015
- (v) Prev.inspection date : 19/01/2014

**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 : G.M. (Mines)  
correspondance : CHETTINAD CEMENT CORPORATION LIMITED  
Ariyalur Works. Ariyalur
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 : 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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL		
1b	Exploration over lease area for geological axis 1 or 2	NIL.	NIL.	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	2.47 million tons.	2.47 million tons.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	Nil

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1 : 0.5	1 : 0.5	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL.	NIL.	NIL.
2c	Stripping ratio or ore to OB ratio	NIL	NIL	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	Nil	Nil	Development is systematic and scientific.
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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	496873.3	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.	CaO below 35 %	CaO below 35%	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NIL
3j	Provision of drilling and blasting in mineral benches	NA	NA	NIL

3k	Provision of mining machineries in mineral benches	Available	Available	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m TO 6m	5m TO 6m	NIL
3m	Total area covered under excavation/pits	22.26 Ha	22.26 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.00	1: 0.00	NIL
3o	Total area put in use under different heads at the end of year	19.2 HA	19.2 HA	NIL
3p	Production of ROM mineral during the last five year period as applicable	2010-11: 500000 2011-12: 900000 2012-13: 900000 2013-14: 900000 2014-15: 900000	2010-11: 586416 2011-12: 499949 2012-13: 499943 2013-14: 499945 2014-15: 496873	NIL
3q	General remarks of inspecting officers on method of mining etc.	Mining is being carried out using rock braker and transport is made by taurus tipper.	Mining is being carried out using rock braker and transport is made by taurus tipper.	NIL

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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 and OB dumped separately	Nil
4b	Location of topsoil, OB and mineral reject dumps	NIL	Dumped out side ML on Western side	Nil

4c	Number of dumps within lease area and outside of lease area	Nil	Within ML :NIL OutsideML:1	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	1	Nil
4g	Number of dumps established.	Nil	By afforestation along slopes.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Garland drain made along the periphery dump	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	Dumping is limited	No adverse effect was observed to the surrounding	NIL

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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	Used for afforestation	NIL

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5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	The mine operated as per proposal

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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).	As proposed	Submitted	NIL
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	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)	Quarterly as per norms	Being carried out	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	Being carried out	NIL

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Mineral Conservation:

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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	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	As per approved document.	NIL

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	Stacked temporarily out side the ML 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 the periphery and out side ML temporarily	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	back filling proposed after complete exhaustion of mineral	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)	500 Trees per year.	Upto March 2014 around 3000 saplings planted over dump area	NIL
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	By water tanker	Being practiced.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	The Mine is systematic, clean.	On the day of inspection the mine was not in operation because of transport bottle neck.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR SUBMITTED UP TO MARCH 2015 AR SUBMITTED UP TO 2014-15	INFORMATION WERE FOUND CORRECT	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	All details have been furnished.	All details have been furnished.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	All information have been furnished.	The information were found to be correct.	NIL
9d	Scrutiny of Annual return on afforestation	3000 (with in lease area) Survival 80%	The information was found correct.	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	CORRECT	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Data on ROM stock/graded	Data given were found correct.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine production cost were furnished.	Ex mine price & production cost were found correct.	NIL
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Asset was given.	The Value of Fixed asset given were found satisfactory	NIL
9k	Scrutiny of Annual return on mining machineries	Mining machineries details given	Mining machineries details given were found correct.	NIL

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

**(ANUPAM NANDI)**

Indian Bureau of Mines