

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-38.MDS

**Mine code :** 38TMN38033

- (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 : 22/04/2015
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KALLANKURICHI MINE \_4.925**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 22/04/2013
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** :
3. (a) **Lease Number** : TMN1600
- (b) **Lease area** : 4.92
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 21/04/2033
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/s CHETTINAD CEMENT CORPN. LTD  
4TH FLOOR, RANI SEETHAI  
HALL BUILDING 603, ANNA  
SALAI CHENNAI CITY TAMIL  
NADU  
Phone:044 - 8272727  
FAX :044 - 8241416

Owner : CHETTINAD CEMENT CORPORATION LI MITED  
ARIYALUR TRICHY ROAD  
KEELAPALURVUR POST ARIYALUR  
TALUK, PERAMBALUR DISTRICT  
PERAMBALUR TAMIL NADU  
Phone:  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 14/10/2013

## 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	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	3.126Lakh tons	3.126 Lakh tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Proposal was adequate.	As per proposal	Nil

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NE	NE	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB bench	OB 1 bench	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.09	1 : 0.05	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	8238 M Cu. 12348 Tn	8333 Cu.M 12500 Tn	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposal was adequate.	As per proposal	Nil
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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	141338	139987	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	12348	7062	Nil
3e	Grade of mineral rejects generation and threshold value declared.	SiO2 above 30%	SiO2 above 30%	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	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NA
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	4m to 6m	4m to 6m	NIL
3m	Total area covered under excavation/pits	3.90Ha	3.90Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.09	1: 0.05	NIL
3o	Total area put in use under different heads at the end of year	4.00 Ha	4.00 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 154635 2014-15: 141338	2013-14: 154598 2014-15: 139986	NIL
3q	General remarks of inspecting officers on method of mining etc.	As proposed.	Proposal have been followed	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)	Topsoil Nil Reject: 1	Reject: 1	NIL
4b	Location of topsoil, OB and mineral reject dumps	Western Periphery	Western Periphery	NIL
4c	Number of dumps within lease area and outside of lease area	1	1	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western 1	Western 1	NIL

4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	1	1	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Graland drain	Being developed	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	150 Mtrs	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	As proposed	Proposal have been followed	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	Being used for afforestation	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No backfilling have been proposed now	The proposal is being followed	NIL

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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).	Proposed in the approved document	Enclosed	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	Backfilling will be carried out from the IVth year onwards
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)Afforestati 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	Being done	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The proposals in the PMCP is adequate.	The proposal is being followed.	NIL

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	As proposed.	All production is sent to the plant.	NIL
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	Wherever required occasional manual sortng is made.	NIL

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7d	Any beneficiation process at mines	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NA	NIL

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Used for afforestation	Used for afforestation	NIL
8b	Concurrent use or storage of topsoil	For afforestation purpose within the lease	For afforestation purpose within the lease	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One waste/reject dump on the western side	One waste/reject dump on the western side	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For back filling from the IVth Year onwards	For back filling from the IVth Year onwards	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)	350 Trees / 0.14 Ha	1000 Tress along the periphery	NIL

8g	Survival rate	90%	97%	NIL
8h	Water sprinkling on roads to control airborne dust	By water tanker	Being practiced	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As per proposal	The proposal have been followed. The mine has a clean & systematic look.	NIL

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto: Mar '2015 A.R. submitted upto: 2014-15	The information was found correct.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The details furnished in the return.	The information was found correct.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The details furnished in the return.	The information was found correct.	NIL
9d	Scrutiny of Annual return on afforestation	The details furnished in the return.	The information was found correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The details furnished in the return.	The information was found correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The information was found correct.	The information was found correct.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The details furnished in the return.	The information was found correct.	NIL

9h	Scrutiny of Annual return on fixed assets	The details furnished in the return.	The information was found correct.	NIL
9k	Scrutiny of Annual return on mining machineries	The details furnished in the return.	The information was found correct.	NIL

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**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 :**

**(ANUPAM NANDI)**

Indian Bureau of Mines