

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/PBR/LST-47.MDS

**Mine code :** 38TMN24046

- (i) Name of the Inspecting : S011 ) SALIL SANDIP KUJUR  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. BARLAND AND RAMESH- MINING ENGINEER WITH CSR EXEC  
Official with  
Designation
- (iv) Date of Inspection : 08-JUL-17
- (v) Prev.inspection date : 21-APR-15

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : UNJINI\_20.965HA
- (b) **Registration NO.** : IBM/4681/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 20-SEP-05
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** :
3. (a) **Lease Number** : TMN0985
- (b) **Lease area** : 20.96
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 19-SEP-25
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	12-JAN-04
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	05-JUN-09
	:	Mining Scheme rule 12 MCDR1988	05-JUL-11
	:	Mining Scheme rule 12 MCDR1988	24-FEB-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	NIL	NIL/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	-	0.46 MILLION TONNES	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY EXPLORATION IS DONE.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NORTHREN SIDE OF THE LEASE	NORTHERN PART	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	YES MAINTAINED AS PER PROPOSAL	NIL
2c	Stripping ratio or ore to OB ratio	1:1	1:1	NIL
2d	Quantity of topsoil generation in m3	205000 M3	200000 M3	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	300000 MT	299440.08 MT	WITHIN LIMIT
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	23391Tons	23391Tons	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.	18990	18990	NIL
3g	Grade of sub grade mineral generation	25% CAO	25%CAO	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.	NA	NA	NIL
3j	Provision of drilling and blasting in mineral benches	Conventional drilling & Blasting	Presently eco friendly Non conventional Mining method by engaging rock breaker.	NIL

3k	Provision of mining machineries in mineral benches	YES	YES ROCK BREAKER-1 SHOVEL-2 DUMPER-6 WATER TANKER-1 DRILL-1	AS PER PLAN
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5.5 to 6.0M	5.5 to 6.0M	NIL
3m	Total area covered under excavation/pits	14 Ha	14 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.96	1:0.96	NIL
3o	Total area put in use under different heads at the end of year	19.20 Ha	19.20 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2012-13-300000 2013-14-300000 2014-15-300000 2015-16-300000 2016-17-300000	2012-13-30563.63 2013-14-299980.90 2014-15-280045.50 2015-16-251778.64 2016-17-299440.08	NIL, ALL 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)	Located in inside ML Area	Top soil & OB dumped separately during the initial period of Mine at outside in the NE and SW direction of the ML Dump size 210 M x 70 M x 10 M	NIL
4b	Location of topsoil, OB and mineral reject dumps	Located inside of the ML area at North East of lease area	Located inside of the ML area North East of lease area	Top soil is being concurrently used for Afforestation.

4c	Number of dumps within lease area and outside of lease area	Within ML:3	Within ML:3 "Dump size 1) 210 M x 70 M x 10 M 2) 150M x 70M x 10M 3) 100M x 60M x 8M "	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumps will be in existence within ML area	Existing OB dump is located inside the ML in NE&SW direction	NIL
4e	Number of active and alive dumps.	3	3,By planting creepers along the slopes.	NIL
4f	Number of dead dumps.	3	3	-
4g	Number of dumps established.	3	3	By planting creepers along the slopes.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain made along the periphery dump.	Garland drain made along the periphery dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	600	585 MTR	NIL
4j	Number of settling ponds	1	1	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.	YES	YES BACKFILLING STARTS AFTER FULL MINERAL EXTRACTION	AS PROPOSAL

5b	Area under backfilling of mined out area	8.45 HA	6.75HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	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.	-	-	SATISFACTORY

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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).	YES	NOT SUBMITTED	VIOLATION POINTED OUT
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	-
6d	No. of saplings planted during the year	NIL	NIL	NIL
6f	Any other method of rehabilitation	NA	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	150X110X15	120X90X15	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	150X110X15	120X90X15	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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	NA
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)	Quarterly as per norms	BEING CARRIED OUT	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not required	NIL	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	NIL
7c	Different grade of mineral sorted out at mines.	"Sio2-18.34 Al2O3-4.47 Fe2O3-1.50 Cao-40.39 "	"Sio2-18.34 Al2O3-4.47 Fe2O3-1.50 Cao-40.39 " CEMENT GRADE	-
7d	Any beneficiation process at mines .	NA	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	SATISFACTORY

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Stacking separately and used for afforestation	Stacked along the ML boundary and being used for Afforestation purpose.	NIL
8b	Concurrent use or storage of topsoil	Nil	Used for afforestation	-

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil (No waste / rejects are encountered)	OB dump is located in side the ML on the SW direction	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	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	Part of the mined out pit will be converted as water reservoir and remaining will be back filled	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 PER YEAR	FY 2016-17:1000 Nos &Upto March 2017 around 7500 saplings planted on dump and other area	AS PROPOSED
8g	Survival rate	90%	85%	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

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED	SUBMITTED IN TIME	NIL

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	appointed	present	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	GIVEN	AS GIVEN	NIL
9d	Scrutiny of Annual return on afforestation	PROVIDED/GIVEN	AS GIVEN	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL GIVEN
9f	Scrutiny of Annual return on ROM stock and/or graded ore	no stock shown	no stock found	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	provided, captive mine	mineral used in captive plant	NIL
9h	Scrutiny of Annual return on fixed assets	deployed/GIVEN	deployed AS Given	NIL
9k	Scrutiny of Annual return on mining machineries	given	deployed as provided	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
MCDR17	Rule 26(2)	26-JUL-17	09-OCT-17			
MCDR17	Rule 31(4)	26-JUL-17	09-OCT-17			

**Date :**

(SALIL SANDIP KUJUR)

Indian Bureau of Mines