

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **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 : 21/04/2015
- (v) Prev.inspection date :

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** : 20/09/2005
- (h) **Weekly day of rest** : SUN
2. **Address for** :
- correspondance**
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	12/01/2004
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	05/06/2009
	:	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	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	NA	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.50	0.50	NIL
1e	Balance reserve as on 01/04/20	16.21 LAKH TONS	16.21 LAKH TONS	NIL
1f	General remarks of inspecting officers on geology, exploration etc	The proposal given were found adequate.	The proposal is being followed	NIL

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NIL	NIL	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0	1 : 0	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	The mine is developed mostly except few areas of mineral bearing areas in ore zone to be worked.	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	300000	280045	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.	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	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	4m to 6m	4m to 6m	NIL
3m	Total area covered under excavation/pits	8.56 Ha	8.56 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.90	1:0.90	NIL
3o	Total area put in use under different heads at the end of year	13.06 Ha	13.06 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2010-11: 300000 2011-12: 300000 2012-13: 300000 2013-14: 300000 2014-15: 300000	2010-11: 427 2011-12: 1978 2012-13: 50563 2013-14: 299980 2014-15: 280045	NIL
3q	General remarks of inspecting officers on method of mining etc.	Method of mining proposal given is adequate.	The method proposed is being followed.	NIL

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	No existing top soil dumps	NIL
4b	Location of topsoil, OB and mineral reject dumps	OB dump on southern side	Existing dump on the South & Eastern side	NIL

4c	Number of dumps within lease area and outside of lease area	2 within the lease	2 Nos within the lease	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South	SOUTH	NIL
4e	Number of active and alive dumps.	2	2	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	2	2	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain	Developed	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	300 Mtrs of garland drain	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	Proposal is adequate.	The proposal is being followed	NIL

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	Part of the minedout area will be backfilled after exhaustion of mineral
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For afforestation	For afforestation	NIL

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	NIL

Progressive Mine Closure 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 in the document.	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	Back filling proposed from the year 2016-17	Back filling proposed from the year 2016-17	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	200 m x 250 m	Part of the area backfilled part will be left over as water reservoir
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	Being done	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The proposal given is adequate.	The proposal is being followed.	NIL

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	NIL	For enhancement of quality screening is planned on trial
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	Proposal was adequate.	The mineral is associated with marl and other wastes but the lessee is seeking potentiality to segregate them by mech screening.	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Dumped on southern side Used for afforestation	No existing dumps used for afforestation	NIL
8b	Concurrent use or storage of topsoil	Afforestation	Afforestation	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	OB Dump on the southern & eastern side within ML of 11 Mtrs Ht
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Back fillling proposed from the year 2016-17
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 Trees / 0.10 Ha	500 Tress / 0.17 (includes outside ML)	NIL
8g	Survival rate	90%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	By water tanker	By water tanker	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The area is dry and arid.	Mining has created some greenery inside the lease area.	NIL

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 details were furnished in the return.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The details were furnished in the return.	The details were furnished in the return.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use have been furnished.	The details were found correct.	NIL

9d	Scrutiny of Annual return on afforestation	The details of afforestation have been furnished.	The details were found correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The details of associated waste have been given having Cao <15%	The details were found correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The details were furnished in the return.	The details were found correct.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The details were furnished in the return.	The details were found representative.	NIL
9h	Scrutiny of Annual return on fixed assets	The information were furnished	The information was found correct.	NIL
9k	Scrutiny of Annual return on mining machineries	The information were furnished.	The information was found correct.	NIL

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