

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-13.MDS

Mine code : 38TMN38036

- (i) Name of the Inspecting : **N005**) **ANUPAM NANDI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S.VAITHIANATHAN, GEOLOGIST.
Official with
Designation
- (iv) Date of Inspection : 21/04/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARUPPURSENAPATHY**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (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 : 01/01/2015
- (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

6. Date of approval of Mining :
Plan/Scheme of Mining

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	2.38 LAKH TONS	2.38 LAKH TONS	NIL
1f	General remarks of inspecting officers on geology, exploration etc	As Proposed	The Area have been explored as per proposals	NIL

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Mestern Side of ML	Mestern Side of ML	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1	1	NIL
2c	Stripping ratio or ore to OB ratio	1 : 0.37	1 : 50	NIL
2d	Quantity of topsoil generation in m3	18100	15000	NIL
2e	Quantity of overburden generation in m3	11954	11800	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As proposal	The Mine have been developed 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	80404	79386.54	NIL
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	NIL
3d	Quantity of mineral reject generation	6000	7062	NIL
3e	Grade of mineral rejects generation and threshold value declared.	SiO ₂ above 30%	SiO ₂ 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 6 m	4m to 6 m	NIL
3m	Total area covered under excavation/pits	2.521 Ha	2.521 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.37	1: 0.50	NIL
3o	Total area put in use under different heads at the end of year	3.25 Ha	3.25 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 120095 2014-15: 80404	2013-14: 119931 2014-15: 79386	NIL
3q	General remarks of inspecting officers on method of mining etc.	The proposal given in the approved document as above.	The proposals have been 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)	1 in OB Top soil used for afforestation	1 in OB Top soil used for afforestation	NIL
4b	Location of topsoil, OB and mineral reject dumps	Western side within ML	Western side within ML	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)	West	West	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.	Garland Drain	Being Developed	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	250 Mts	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	The proposal given in the approved document as above.	The proposal have been 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	From the 3rd YEAR 0.97 Ha Back filling & 1.55 Ha left as water resorvoir.
5b	Area under backfilling of mined out area	nil	nil	Will be stated from 3rd year
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	will be used for afforestation	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.	NIL	Area not mastured for backfilling.	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).	Proposed in PMCP	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	Will be started from 3rd 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.	NIL	NIL	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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.	NA	NA	NIL
7c	Different grade of mineral sorted out at mines.	NA	NA	NIL

7d	Any beneficiation process at mines	NA	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	All the excavated mineral is sent to the plant for necessary blending & use in plant.	Proposals have been followed	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Will be used for afforestation purpose	No existing top soil dump used for afforestation	NIL
8b	Concurrent use or storage of topsoil	For afforestation	For afforestation	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1	1	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filling	Back filling will be started from IIIrd Yr 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)	175 Tress / .07 Ha	500 Nos / 0.07 Ha	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	Mine is clear, systematic with a green belt under development.	Mine is clear, systematic	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 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

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