INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-14.Mds **Mine code : 38TMN38032**

(i) Name of the Inspecting Officer and ID No. : **S011) SALIL SANDIP KUJUR**

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine Official with Designation : MARIABARLAND-MINES MANAGER

(iv) Date of Inspection : 31-JAN-17

(v) Prev.inspection date : 20-APR-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PUDUPALAYAM & EDAYATHANGU**

(b) Registration NO. :

(c) Category : B Manual

(d) Type of Working : Opencast

(e) Postal address

State : TAMIL NADU

District : ARIYALUR

Village :

Taluka :

Post office :

Pin Code :

FAX No. : 044-42988659(f)

E-mail : krishnakumar.ra@chettinadc

Phone : 044-42988652(o)

(f) Police Station :

(g) First opening date : 29-OCT-03

(h) Weekly day of rest : SUN

2. Address for correspondance : 6TH FLOOR,RANISEETHAI HALL BULDING, NO:603,ANNA SALAI, CHENNAI-600 006.

3. (a) Lease Number : TMN1050

(b) Lease area : 4.32

(c) Period of lease : 20

(d) Date of Expiry : 10-FEB-30

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 : 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 : Fresh under rule 22 MCR1960 23-APR-12

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	FULLY EXPLORED	FULLY EXPLORED	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	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	NA	431181 mt	
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	NIL

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	WEST	WEST	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	NOT MAINTAINED IN THE WESTERN SIDE OF THE PIT	Violation has been pointed out for nat maintaining the seperate benches.
2c	Stripping ratio or ore to OB ratio	1:0.8	1:0.4	nil
2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	0.21 Lakh M3	0	the overburden development is lagging w.r.t planned

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	na	na	The violation has been pointed out regarding the bench height & width not being maintained.

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	0.50 LMT	0.49LMT	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.	na	na	nil
3f	Quantity of sub grade mineral generation.	nil	nil	nil
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	BREAKING AND LOADING-MECHANISED	BREAKING AND LOADING-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	YES	YES	NIL

3k	Provision of mining machineries in mineral benches	YES	YES	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	NIL
3m	Total area covered under excavation/pits	71x312 SQ.M	70x300 SQ.M	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.7	1:0.5	NIL
3o	Total area put in use under different heads at the end of year	MINING=2.21 OBDUMP=0.70HA ROAD=0.10HA GREENBELT=1.89 HA GARLAND DRAIN=0.05HA	MINING=2.21HA OBDUMP=0.70HA ROAD=0.10HA GREENBELT=1.70HA GARLAND DRAIN=0.05HA	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14=100136 2014-15=69842 2015-16=48610	2013-14=99981MT 2014-15=93744 MT 2015-16=48800 MT	NIL
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	THE BENCH HEIGHT IS NOT PROPERLY MAINTAINED ALL ALONG THE BOUNDARY AS PER PROPOSEL VIOLATION POINTED OUT.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	yes	nil
4b	Location of topsoil, OB and mineral reject dumps	south	south	nil
4c	Number of dumps within lease area and outside of lease area	ONE -WITHIN LEASE AREA	ONE -WITHIN LEASE AREA	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WEST	WEST	NIL
4e	Number of active and alive dumps.	ONE	ONE	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	ONE	ONE	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	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	NA	NA	WASTE DUMP MANAGEMENT IS 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.	NORTH-EAST SECTION	AS PER PROPOSAL	NIL
5b	Area under backfilling of mined out area	0.87HA	0.37HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	AS PER PROPOSAL	AS PER PROPOSAL	NIL
5d	Total area fully reclaimed and rehabilitated	0.3	1.0	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	BACKFILLING IS SATISFACTORY

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) .	0.57	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	300	300	NIL
6e	Cumulative no .of plants	2400	2400	NIL
6f	Any other method of rehabilitation	NA	NA	NIL
6g	Cost incurred on watch and care during the year	210000	210000	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	50X10X7	50X10X7	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.3HA	0.3HA	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)	YES	YES	SATISFACTORY
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	SATISFACTORY

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	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	NA	NA	ALL LIMESTONE IS SENT TO PLANT.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	YES	NIL
8b	Concurrent use or storage of topsoil	NA	NA	NIL,STORED
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	YES AS PER PROPOSAL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROPOSED	AS PER PROPOSAL	NIL
8g	Survival rate	80%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	PROPOSED	YES	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES	SUBMITTED	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	YES	NIL	NIL
9d	Scrutiny of Annual return on afforestation	YES	NIL	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	YES	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	YES	CAPTIVE MINE	NIL
9h	Scrutiny of Annual return on fixed assets	YES	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	YES	NIL	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 :

(**SALIL SANDIP KUJUR**)

Indian Bureau of Mines