

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-12.MDS

Mine code : 38TMN38039

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.M.L.Balashanmugam Dy.General manager (mines) & S
Official with
Designation
- (iv) Date of Inspection : 18/02/2020
- (v) Prev.inspection date : 01/02/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ARUNGAL -67.73 HA**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : ARUNGAL
- Taluka : ARIYALUR
- Post office : KEELAPALUR
- Pin Code : 621707
- FAX No. : 04329-250011
- E-mail : arymines@chettinadcement.co
- Phone : 04329-247727
- (f) Police Station : Ariyalur
- (g) First opening date : 01/01/2015
- (h) Weekly day of rest : SUN
2. Address for : Chettinad cement corporation limited
correspondance : ariyalut works,Kilapaluvur
Ariyalur-621707
3. (a) Lease Number : TMN1592
- (b) Lease area : 67.73
- (c) Period of lease : 20
- (d) Date of Expiry : 30/10/2032
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 :

Agent : G.Raghunathsingh
 DINDIGUL TAMIL NADU
 Phone:
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/08/2009
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	18/08/2009
	:	MP review under 17(1) MCR 2016	22/07/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	na	Mine opened on 02.08.2019
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Exploration carried out G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	NIL
1e	Balance reserve as on 01/04/20	---	2.57 Million Tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	---	---	Geology, exploration is found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1218923.1 to N-1219143.1 E-291084 to E-291434	Mine opened on 02.08.2019	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Bench in Topsoil, 2nd bench in waste 3rd Benches in Limestone and Marl	New mine opened 02.08.2019	
2c	Stripping ratio or ore to OB ratio	1:2.05	development work under progress	Mine opened on 02.08.2019
2d	Quantity of topsoil generation in m3	115780	work under progress	Mine opened on 02.08.2019
2e	Quantity of overburden generation in m3	318450	work under progress	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	---	New mine development under prograrssive
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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	2019-20 400100 Ts	NIL	Development under progress
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NA	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	No mineral reject generation
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	100% Recover No segregating	100% Recover No segregating	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	NIL
3j	Provision of drilling and blasting in mineral benches	NIL	NA	Non Conventional Mining by Rock breaker

3k	Provision of mining machineries in mineral benches	Proposed	As per the proposal	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	NIL	NIL	Virgin area mining operation not yet commenced
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.05	Nining yet to commence	nil
3o	Total area put in use under different heads at the end of year	5.13 Ha	Nining yet to commence	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15- 500000 Ts 2015-16 - 550000 Ts 2016-17 - 800000 Ts 2017-18 - Nil 2018-19 - Nil	Mining Operation could not be commenced	Mine opened on 02.08.2019
3q	General remarks of inspecting officers on method of mining etc.	----	----	Mining operation commenced from Aug -2019.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping 1 of topsoil, OB and mineral rejects (Rule 32,33)		NIL	Mine yet to be start

4b	Location of topsoil, OB and mineral reject dumps	Top Soil dumped in Northern side of the Boundary under the safety distance of 10 m in various courses. Over Burden N-1217913 to N-1218093 E-291014 to E- 291194	NIL	Mining operation not carried out during 2018-19
4c	Number of dumps within lease area and outside of lease area	Within ML : 1 Outside ML: Nil	NIL	Mining operation not carried out during 2018-19
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Over Burden N-1217913 to N-1218093 E-291014 to E- 291194	NIL	Mining operation not carried out during 2018-19
4e	Number of active and alive dumps.	1	nil	Not applicable
4f	Number of dead dumps.	NIL	NA	New mine
4g	Number of dumps established.	NIL	NA	New mine
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	New mine
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	NA
4j	Number of settling ponds	----	----	Mine opened from 02.08.2019.the waste Management found to be
4k	Specific comments of inspecting officer on waste dump management			

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NIL	NA	New lease, Mine opened on 02.08.2019
5b	Area under backfilling of mined out area	NIL	Not applicable	New lease, Mine opened on 02.08.2019
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	New lease, Mine opened on 02.08.2019
5d	Total area fully reclaimed and rehabilitated	NIL	NA	New lease, Mine opened on 02.08.2019
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	-----	New lease, Mine opened on 02.08.2019

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).	Submitted	Submitted	NIL
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
6c	afforestation done (ha).	1.0 Ha	0.65 Ha	NIL
6d	No. of saplings planted during the year	2500	1500	nil
6e	Cumulative no .of plants	2500	1500	nil
6f	Any other method of rehabilitation	NIL	NA	NIL
6g	Cost incurred on watch and care during the year	320000	320000	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Not applicable -	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	Not applicable -	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	Not applicable -	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	Not applicable -	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodically Monitored	Periodically Monitored	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	----	New lease, Mine opened on 02.08.2019

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2018-19	NIL	Mine opened on 02.08.2019, only development progressive
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	NA	No different grade of mineral sorted out at mines
7d	Any beneficiation process at mines	NIL	NA	NA
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	New lease, Mine opened on 02.08.2019

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	NIL	New mining

8b	Concurrent use or storage of topsoil	Top Soil dumped in Northern side of the Boundary under the safety distance of 10 m in vari courses	NIL		Mine opened on 02.08.2019
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1	Nil		Mine opened on 02.08.2019
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	NIL		Mine opened on 02.08.2019
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA		NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NA		NIL
8g	Survival rate	---	---		New mine, aesthetic beauty in and around mines area is satisfactory.
8h	Water sprinkling on roads to control airborne dust				
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area				

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual return for 2018-19 submitted	Annual return for 2018-19 submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Shri.P.Alagukannan B.E Mining Engineer, Shri. M.StalinPrakash M.Sc Geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	not applicable	Part-I Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	1500 planted	Part-I ,Sl.No.12
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	No mineral rejaect reported	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	New mine production not reported	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	New mine production not reported	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Not given	PART III, Sl.No. 4
9k	Scrutiny of Annual return on mining machineries	Given in the format	not given	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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines