

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/DAN/LST-29/MDS

Mine code : 38TMN33014

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.M.Mayilrajan,General Manager(Mines) &Shri.V.Sasi
Official with
Designation
- (iv) Date of Inspection : 03/11/2020
- (v) Prev.inspection date : 18/11/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALAMBADI(2.415HA)KARIKALI**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : DINDIGUL
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** : KARIKALI
- (g) **First opening date** : 27/03/2003
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : ALAMBADI VILL
PALAYAM(VIA)-624620
DINDIGUL DIST
3. (a) **Lease Number** : TMN0851
- (b) **Lease area** : 2.42
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 27/03/2023
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 : G.Raghunathsingh
 DINDIGUL TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : M.Mayilrajan,Full Time
 Qualification : B.E Mining
 Appointment/ : 17/08/2016
 Termination date

Geologist

Name : M.L.BALASHANMUGAM,Full Time
 Qualification : MSC(GEOLOGY)
 Appointment/ : 17/08/2016
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	21/08/1990
Plan/Scheme of Mining		Existing rule 11 MCDR1988	25/04/2006
		Modif.approved Mining Scheme	03/06/2010
		Modif.approved Mining Scheme	03/06/2010
		Mining Scheme rule 12 MCDR1988	15/05/2014
		MP review under 17(1) MCR 2016	14/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully explored
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	The area is fully 100% explored under G1 category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	Mine fully explored
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Mine fully explored
1e	Balance reserve as on 01/04/20	2.52 Lakhs Tons (111)	2.52 Lakhs Tons (111)	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	----	geology, exploration is found it be satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	IV &V Bench / 220 mtr RL	IV &V Bench / 220 mtr RL	Development is being carried out as per Proposal given in Review of Mining plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No.of Benches in Ore - 2 Benches	No.of Benches in Ore - 2 Benches	Followed as per plan
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	nil
2d	Quantity of topsoil generation in m3	NIL	NA	No top soil generation
2e	Quantity of overburden generation in m3	NIL	NA	No overburden generation in m3

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NA	development of pit is satisfactory
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	Followed as per plan
3b	Quantity of ROM mineral production proposed	5000 Ts	5000 Ts	Within limit
3c	Recovery of sailable/usable mineral from ROM production	NIL	NA	NIL
3d	Quantity of mineral reject generation	NIL	NA	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	<35 CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	NIL
3g	Grade of sub grade mineral generation	NIL	NA	No sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	As per plan
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	YES	Drilling and Blasting is done as per plan	Nil

3k	Provision of mining machineries in mineral benches	Shovel-1, Dumpers-2,	Shovel-1, Dumpers-2,	As per plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-10 mtr, Width-10mtr	Height-10 mtr, Width-10mtr	Followed as per plan
3m	Total area covered under excavation/pits	1.50.0 Hect	1.50.0 Hect	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	1:0.00	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15-5000 Ts 2015-16-5000 Ts 2016-17-5000 Ts 2017-18-5000 Ts 2018-19-5000Ts 2019-20-5000Ts	2014-15-5047 Ts 2015-16-5000 Ts 2016-17-5000 Ts 2017-18-5082 Ts 2018-19 -5013 Ts 2019-20-5000Ts	Within Limit
3q	General remarks of inspecting officers on method of mining etc.	----	---	method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NA	NIL
4b	Location of topsoil, OB and mineral reject dumps	NIL	NA	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	NA	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	NIL
4e	Number of active and alive dumps.	NIL	NA	NIL
4f	Number of dead dumps.	NIL	NA	NIL
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	Retaining wall not proposed
4j	Number of settling ponds	NIL	na	settling ponds not proposed
4k	Specific comments of inspecting officer on waste dump management	----	---	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.	NIL	NA	Mineral not extracted fully
5b	Area under backfilling of mined out area	NIL	NA	Not at this stage
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No top soil generation
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Mineral not extracted fully

5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	backfilling, reclamation does not arise at this stage
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted in time	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
6c	afforestation done (ha).	0.20.0Ha	0.20.0Ha	As per plan
6d	No. of saplings planted during the year	400	350	Survival only 40 saplings
6e	Cumulative no .of plants	--	390	NIL
6f	Any other method of rehabilitation	NIL	NA	no other specific method of rehabilitation
6g	Cost incurred on watch and care during the year	NIL	NA	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	No waste land available
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NA	No waste land available
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	No waste land available
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Proposed	Done Quarterly	Periodically Monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	---	---	PMCP compliance & progressive closure operations IS FOUND SATISFACTORY

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	NA	NIL
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	NIL
7d	Any beneficiation process at mines .	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	---	Mineral conservation & beneficiation issues IS FOUND SATISFACTORY

Environment :

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

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	Not at this stage
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	400 Nos	350 Nos	Survival only 40 saplings
8g	Survival rate	80%	70%	Due to water scarcity and less rainfall
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling is done	As per plan
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	----	aesthetic beauty in and around mines area is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	A.R. submitted in time	A.R. submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mr.Stalin Prakash - Geologist Mr.T.Eniyan - Mining Engineer	Part-I 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	Area under pits- 1.50 Ha Area under reclamation- Nil Area under dumps- Nil Area under Plant buildings, roads and green belt- 0.425 Ha	Part-I Sl. No 12

9d	Scrutiny of Annual return on afforestation	Given in the format	40 Nos	Part-I Para 4.4
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	NIL	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	Not applicable	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Rs.304.84	Part - VII(cost of Production)-
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs. 24,14,08,162	Part - III,Sl.No.
9k	Scrutiny of Annual return on mining machineries	Given in the format	Shovel-1, Dumpers-2	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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines