

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

**Review and updation of Mining Plan REPORT**

**Chennai regional office**

**Mine file No :** TN/RP/LST-3, MDS

**Mine code :** 38TMN19001

- (i) Name of the Inspecting : **D009** ) **D.CHANDRA SEK HAR REDDY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : V.Karthikeyan, mines manager  
Official with  
Designation
- (iv) Date of Inspection : 07/08/2023
- (v) Prev.inspection date : 24/07/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ALANGULAM**
- (b) **Registration NO.** : **IBM/7446/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : VIRUDHUNAGAR
- Village : ALANGULAM
- Taluka : SIVAKASI
- Post office : TAMILNADU CEMENTS
- Pin Code : 626127
- FAX No. : 04562- 34435
- E-mail : tansalgm@md5.vsnl.net.in
- Phone : 04562- 34436 / 34448 / 3444
- (f) Police Station : ALANGULAM
- (g) First opening date : 20/01/1991
- (h) Weekly day of rest : SUN
2. Address for : ALANGULAM MINES  
correspondance : TAMILNADU CEMENTS CORPORATION  
POST-ALANGULAM, VIA RAJAPALAYAM-626127
3. (a) Lease Number : TMN0022
- (b) Lease area : 515.45
- (c) Period of lease : 20
- (d) Date of Expiry : 04/02/1988
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : TAMILNADU CEMENT CORPORATION LTD.  
735, ANNA SALAI, P.B.No:  
5205, LLA BUILDING,  
CHENNAI CITY TAMIL NADU  
Phone:044-28525461, 28526321, 28571426  
FAX :044-28523991

Owner : M/S TAMILNADU CEMENT CORPORATION LTD  
PERAMBALUR TAMIL NADU  
Phone:  
FAX :

Agent : R.jayaprakash Narayanan  
Tancem Ltd Alangulam cement  
works Alangulam,  
Virudhunagar DT.  
TIRUNELVELI TAMIL NADU  
Phone:  
FAX :

## Geologist

Name : R.Surya deepan,Full Time  
Qualification : MSC (Geo)  
Appointment/ : 02/02/2022  
Termination date

## Manager

Name : V Karthikeyan  
Qualification : B.E.(Mining)  
Appointment/ : 25/11/2022  
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	29/03/2001
Plan/Scheme of Mining		Fresh under rule 22 MCR1960	29/03/2001
		Mining Scheme rule 12 MCDR1988	11/10/2004
		Mining Scheme rule 12 MCDR1988	14/06/2012
		Mining Scheme rule 12 MCDR1988	04/09/2013
		Mining Scheme rule 12 MCDR1988	11/11/2015
		MP review under 17(1) MCR 2016	02/08/2021

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	142	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
1b	Exploration over lease area for geological axis 1 or 2	G1 level.	G1 level and some area G2 level.	Exploration proposed not achieved due to non operational of mine during last plan period.
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	—	1.46 Million Tons (111) as on 01/04/2023.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	(4100N to 2000N) (5300E to 5000E )	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Quarry HSL-S: No.of Benches in Mineral - 2 Overburden - 1	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearanc Overburden - 1
2c	Stripping ratio or ore to OB ratio	1:0.48	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	19148 tonnes	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
3b	Quantity of ROM mineral production proposed	171004 TS	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.

3c	Recovery of sailable/usable mineral from ROM production	119703 tonnes.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
3d	Quantity of mineral reject generation	51301 tonnes.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
3e	Grade of mineral rejects generation and threshold value declared.	< 35%	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	NIL	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	proposed.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
3k	Provision of mining machineries in mineral benches	proposed deployment of HEM.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m heigh benches proposed.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.
3m	Total area covered under excavation/pits	15.20.94 Hect	14.79.7 Hect	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance
3n	Ore to OB ratio for the pit/mine during the year.	1:0.59	NIL	NIL
3o	Total area put in use under different heads at the end of year	34.26.74 Hect	44.34.0 Hect	2019-2020 Plantation done over 10.48.0Hect
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - NIL 2019-20 - NIL 2020-21 - Nil 2021-22 = 1,71,283 Ts 2022-23 = 1,71,004 Ts	2018-19 - NIL 2019-20 - NIL 2020-2 - Nil 2021-22 - NIL 2022-23 - NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed.	NIL	Mine not in operation.
4b	Location of topsoil, OB and mineral reject dumps	mineral reject dumps: 9°22'23.30"N 77°41'34.95"E	NIL	Mine not in operation.

4c	Number of dumps within lease area and outside of lease area	8 within lease area	8 within lease area	Dumps are common for other leases exist in the mine.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL	NIL
4e	Number of active and alive dumps.	8	8	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	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	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.

#### 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	Mine is in advance state, not matured for backfilling.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes.	Topsoil removed already used for plantation purpose.	NIL

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of Environmental Clearance.

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.	Nil details submitted.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.25 HC	NIL	NIL
6d	No. of saplings planted during the year	280	NIL	NIL
6e	Cumulative no .of plants	NA	75	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	NIL
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)	proposed.	Carried out in September -November 2022	EIA study carried out by consultant
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	NIL
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	—	—	Entire ROM consumption proposed. Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	NIL
8b	Concurrent use or storage of topsoil	Yes.	NIL	Topsoil already removed used for plantation purpose.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
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	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	—	Around 75 no of saplings exist with in ML area.	
8g	Survival rate	NA	60%	NIL
8h	Water sprinkling on roads to control airborne dust	proposed.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	AR 2022-23 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	V.karthikeyan -Mines Manager, R.Surya deepan -Geologist.	Mine not in operation, caretaker manager.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current Workings - 14.79.7 Ha Area under infrastructure , roads - 4.048 Ha green belt- 10.480 Used for Waste disposal- 15.01.0 Ha.	Covered under current Workings - 14.79.7 Ha Area under infrastructure, roads - 4.048 Ha green belt- 10.480 Used for Waste disposal- 15.01.0 Ha.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
9d	Scrutiny of Annual return on afforestation	Details given.	No plantation done.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details furnished.	NIL. No mineral reject generation.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	NIL. No production of ROM ore during 2022-23.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	NIL	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs. 4866715	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	No deployment of machinery reported in AR.	Mining operations were discontinued since 10.01.2017 due to Non availability of EC.

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**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 :**

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines