

**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 : 38TMN30034

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. Karthikeyan, Dy. Mgr. & Mr. P. Thangaraju, QP
Official with
Designation
- (iv) Date of Inspection : 06/07/2023
- (v) Prev.inspection date : 26/07/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GOPALAPURAM (420.24.8HA)**
- (b) **Registration NO.** : **IBM/7446/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : VIRUDHUNAGAR
Village : ALANGULAM
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail : ca@tancem.com
Phone : 044-28525461
- (f) Police Station : ALANGULAM
- (g) First opening date : 30/08/1990
- (h) Weekly day of rest : SUN
2. Address for : TAMILNADU CEMENT CORPORATION LIMITED,
correspondance : 735,ANNASALAI,P.B.NO-5205,LLA BUILDING
CHENNAI CITY
3. (a) Lease Number : TMN1282
- (b) Lease area : 420.25
- (c) Period of lease : 10
- (d) Date of Expiry : 19/08/2010
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 : P.MUTHUSWAMY
 M/S TAMILNADU CEMENTS COR
 PN., ALANGULAM WORKS
 ALANGULAM VIRUDHUNAGAR
 TAMIL NADU
 Phone: 04562 - 34435
 FAX : 04562 - 34426

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	17/07/1998
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	10/09/2013
	:	MP review under 17(1) MCR 2016	28/08/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2019-20 [42 nos.DTH drills-2520m total meterage] 2020-21 [32 nos.DTH drills-1920m total meterage]	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-2	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	420.25Ha	Nil	-do-
1e	Balance reserve as on 01/04/20	4.8 Million Tons (111)	4.8 Million Tons (111)	-do-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	(1035800.N to 1035000.N) (790600.E to 791800.E)	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	Separate benches maintained	-do-
2c	Stripping ratio or ore to OB ratio	1:2.66	Nil	-do-

2d	Quantity of topsoil generation in m3	Nil	Nil	-do-
2e	Quantity of overburden generation in m3	19,620	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
3b	Quantity of ROM mineral production proposed	2,60,708 Tonnes	Nil	-do-
3c	Recovery of sailable/usable mineral from ROM production	1,82,496 TS (70%)	Nil	-do-
3d	Quantity of mineral reject generation	78,212 TS (30%)	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	< 35% CaO	Nil	-do-
3f	Quantity of sub grade mineral generation.	Nil	Nil	-do-
3g	Grade of sub grade mineral generation	NA	NA	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil	-do-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	-do-
3j	Provision of drilling and blasting in mineral benches	Depth of each hole: 9 meters, Diameter of each hole: 110mm, Spacing between holes: 3 meters, Burden for holes: 3 meters, Type of Explosives: Slurry types.	Nil	-do-
3k	Provision of mining machineries in mineral benches	Wagon drill - 1 No. Compressor - 2 Nos. Tractor - 1 No. Portable Compressor - 1 No. Hydraulic Excavator - 3No. Dozer - 1 No. Explosive van - 1No.	Nil	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-9m	Height-9m	-do-
3m	Total area covered under excavation/pits	16.58.6 Hect	15.00.0 Hect	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1:2.66	Nil	-do-

3o	Total area put in use under different heads at the end of year	39.04.2 Hect	36.42.0 Hect	-do-
3p	Production of ROM mineral during the last five year period as applicable	2018-19 = Nil 2019-20 = 2,58,359 Ts 2020-21 = 2,57,823 Ts 2021-22 = 2,59,245 Ts 2022-23 = 2,60,708 Ts	2018-19 = 0 2019-20 = 0 2020-21 = 0 2021-22 = 0 2022-23 = 0	-do-
3q	General remarks of inspecting officers on method of mining etc.	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposed	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
4b	Location of topsoil, OB and mineral reject dumps	Topsoil: 9°21'7.25"N 77°39'3.48"E mineral reject dumps: 9°21'20.11"N 77°38'52.56"E	Nil	-do-
4c	Number of dumps within lease area and outside of lease area	7 within lease area	7 within lease area	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within lease area	within lease area	-do-
4e	Number of active and alive dumps.	1	1	-do-
4f	Number of dead dumps.	6	6	-do-

4g	Number of dumps established.	5	5	Natural Vegetation
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	-do-
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	-do-
4j	Number of settling ponds	No proposal	Nil	-do-
4k	Specific comments of inspecting officer on waste dump management	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

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.	No backfilling proposed	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
5b	Area under backfilling of mined out area	Nil	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	-do-
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	-do-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

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	Submitted in time	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
6b	Area available for rehabilitation (ha) .	Nil	Nil	-do-
6c	afforestation done (ha).	0.24.9 Ha	Nil	-do-
6d	No. of saplings planted during the year	400 nos	Nil	-do-
6e	Cumulative no .of plants	2000 nos (during last plan period)	Nil	-do-
6f	Any other method of rehabilitation	Nil	Nil	-do-
6g	Cost incurred on watch and care during the year	Nil	Nil	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	-do-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	-do-

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	-do-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	-do-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	-do-
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.	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting proposed	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Nil	-do-

7c	Different grade of mineral sorted out at mines.	1.Limestone 2.Reject	Nil	-do-
7d	Any beneficiation process at mines .	Primary crusher picking plant (PCPP)/Ore Dressing Plant	Nil	-do-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
8b	Concurrent use or storage of topsoil	Proposed for afforestation	Nil	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Topsoil:9°21'7.25"N 77°39'3.48"E mineral reject dumps : 9°21'20.11"N 77°38'52.56"E	Nil	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	-do-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	-do-
8g	Survival rate	Not specified	Nil	-do-
8h	Water sprinkling on roads to control airborne dust	Proposed	Nil	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager - V.Karthikeyan Mines Engineer - V.Karthikeyan Geologist - V.Karthikeyan Geologist - R.Suriya Deepan	Mines Manager - V.Karthikeyan Mines Engineer - V.Karthikeyan Geologist - R.Suriya Deepan	-do-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits- 15.00.0 Ha Area under infrastructure , roads - 7.31.0 Ha green belt- 5.61.0 Ha Used for Waste disposal: 8.50.0 Ha.	Area under pits- 15.00.0 Ha Area under infrastructure, roads - 7.31.0 Ha green belt- 5.61.0 Ha Used for Waste disposal: 8.50.0 Ha.	-do-
9d	Scrutiny of Annual return on afforestation	Nil	Nil	-do-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	-do-
9h	Scrutiny of Annual return on fixed assets	Rs.71,53,931	Rs.71,53,931	-do-
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Mine inoperational since 10.01.2017 for want of EC. ROMP submitted by lessee under processing.

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 :

(Matiul Islam)

Indian Bureau of Mines