

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PT/LST-18.MDS

**Mine code :** 38TMN38002

- (i) Name of the Inspecting : 043 ) T.PHALTHURAJHEN  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Mr.T.Santhakumar, Dy.Manager ( Mines)  
Official with  
Designation
- (iv) Date of Inspection : 02/12/2022
- (v) Prev.inspection date : 01/09/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : ANANDAVADI
- (b) **Registration NO.** : IBM/7446/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village : ANADAVADI
- Taluka : SENDURAI
- Post office : CHINNA ANANDAVADE
- Pin Code : 621718
- FAX No. :
- E-mail : acwgeology@gmail.com, co@t:
- Phone : 044-28535461
- (f) **Police Station** : ARIYALUR
- (g) **First opening date** : 01/09/2001
- (h) **Weekly day of rest** : SUN
2. **Address for** : M/S TAMILNADU CEMENT CORPORATION LTD  
**correspondance**
3. (a) **Lease Number** : TMN0772
- (b) **Lease area** : 110.68
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 13/07/2030
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 : T Ravichandran  
Ariyalur Cement Works  
Ariyalur Cement Factory  
(Post) Ariyalur ARIYALUR  
TAMIL NADU  
Phone: 9123457311  
FAX :

## Mining Engineer

Name : B Vinoth, Full Time  
Qualification : B.E. (Mining)  
Appointment/ : 13/02/2013  
Termination date

## Geologist

Name : S.Prasad, Full Time  
Qualification : Msc (Geology)  
Appointment/ : 21/07/2011  
Termination date

## Geologist

Name : I Dilipan, Full Time  
Qualification : M.Sc. (Geo)  
Appointment/ : 01/07/2020  
Termination date

## Manager

Name : V Karthikeyan  
Qualification : B.E. (Mining)  
Appointment/ : 17/04/2020  
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/10/2000
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06/10/2006
	:	Mining Scheme rule 12 MCDR1988	25/04/2012
	:	Mining Scheme rule 12 MCDR1988	22/01/2016
	:	MP modif under 17(3) MCR 2016	24/07/2018
	:	MP review under 17(1) MCR 2016	30/06/2021

## 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	NIL	8 bore holes	8 boreholes of 300 mts each 45 mts.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Rs.2,10,000.00/	Excludings GST.
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	9.27 Million Tonnes.	9.27 Million Tonnes.	As per current mining plan.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	nil

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	north pit 1 & 2	north pit 1 & 2	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	0.5m(TS) , 2.5 (2.5 (OB), 6 mts (LS)	0.5m(TS) , 2.5 (2.5 (OB), 6 mts (LS)	Nil
2c	Stripping ratio or ore to OB ratio	1;2	1;2	nil
2d	Quantity of topsoil generation in m3	225287 Ts.	198352 Ts	NIL
2e	Quantity of overburden generation in m3	43147 Ts	278345Ts	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Nil
----	---	---	---	-----

---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 pits	2pits	nil
3b	Quantity of ROM mineral production proposed	15,00,000, Tonnes	400774 tonnes	Due to rain & covid issue thr production was less.
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	Nil
3d	Quantity of mineral reject generation	4,90,500 Tonnes	417087 Tonnes.	
3e	Grade of mineral rejects generation and threshold value declared.	18-20 % Cao	18-20 % Cao	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	mechanized method	mechanized method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	-
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Non conventional Mining By Rock breaker.

3k	Provision of mining machineries in mineral benches	Non conventional method of mining.	Non conventional method of mining.	Rocker breaker sieve bucket Excavator, Taurus.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	bench height 6 mts, bench width 8 mts	bench height 6 mts, bench width 8 mts	bench height 6 mts, bench width 8 mts
3m	Total area covered under excavation/pits	15.045 ha	13.33 ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:2	1:2	Nil
3o	Total area put in use under different heads at the end of year	Mining -10.54 Ha, Waste dump-5.00 ha, office & infrasture, - 0.02.0 ha, Mine Roads- 4.00.0ha ,Area under plantion 4.00.0 haUn utilised Area- 88.62.5 ha	Mining-40.0.0 Waste dump-2.00.0 ha, mine Roads-1.00.0 ha, Area under plantation - 10.50.0 ha , Unutized area-37.62.5 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19=11,25,692 Ts, 2019-20=15,03,250 Ts, 2020-21=15,01,360 Ts, 202122=14,98,486 Ts.	2018-19=259919.61 Ts, 2019-20=6408.30 Ts, 2020-21=259810.97 ts, 2021-22= 400774 Ts.	Nil
3q	General remarks of inspecting officers on method of mining etc.	-	-	Satisfactory.

## 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	Removed OB and dumped in separate dump.

4b	Location of topsoil, OB and mineral reject dumps	Top soil-11 11"25.12" OB-11 11"18.07"N 79 11"15.36 E, Mineral reject-11 11 12.32"N 79 11 11.54"E	Top soil-11 11"25.12 "N, 79 10'53.36"E, OB-11 11"18.07"N 79 11"15.36E, Mineral reject-11 11 12.32"N 79 11 11.54"E	dump placed in Proposed area.
4c	Number of dumps within lease area and outside of lease area	02 dumps within lease	02 dumps within lease	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside altimate pit limit	Outside altimate pit limit	nil
4e	Number of active and alive dumps.	2	2	Nil
4f	Number of dead dumps.	Nil	Nil	-
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal given forgarland drainage in modified mining Plan.	Garland drainage built all along the dump with settling pond	nil
4i	Length of Retaining wall or garland drain all along dumps	not mentioned	60 mts.	-
4j	Number of settling ponds	not mentioned	2 settling ponds	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Nil

#### 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.	partly Extracted	partly Extracted	-
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)	Proposed	carriedout	Top soil used for Afforestation.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	No comments.

---

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 regularly	Submitted regularly	No comments.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	1.60 ha	5.0 ha	No comments
6d	No. of saplings planted during the year	1800 saplings.	3800 Nos( boundary area) 250 nos on( dump)	Going to plant country saplings by replacing 2000 Eucalyptus plants already planted.
6e	Cumulative no .of plants	1800 plants	4050 plants	No comments.
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs.5,00,000/	Rs.5,50,000/	No comments
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	No commens.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not proposed	Nil	No comments.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil	No comments.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Nil	No comments.
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	No comments.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL	No comments.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Complied as per proposal	No comments.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	No comments.

---

**Mineral Conservation:**


---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---



7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed	Minerals despatched directly to the factory.	No comments.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Na	Na	-
7c	Different grade of mineral sorted out at mines.	NA	NA	NIL
7d	Any beneficiation process at mines	nIL	nIL	nIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	NIL

---

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil dumped in lease boundary and will be used for Afforestation	Top soil dumped in lease boundary and will be used for Afforestation	No comments.
8b	Concurrent use or storage of topsoil	concurrents use/ storage proposed.	carried out	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Active dump available at proposed area.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed .	Not carriedout	No commens.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed during this year	Not carried out	no commens
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Initial plan proposed .	carrriedout	Nil
8g	Survival rate	80%	85%	Nil
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling being done regularly.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Nil

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted regularly	Submitted regularly	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	T.Shanthakumar manager (mines) , B.Vinoth , Asst. manager , I. Dilipan (geologist)	T.Shanthakumar manager (mines) ,	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As proposed	As proposed	Nil
9d	Scrutiny of Annual return on afforestation	As proposed	As proposed	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	As proposed	as proposed	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	asproposed	As proposed	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	Ex-mine price rs.199.23 / , production Cost - Rs-199.23/	nil
9h	Scrutiny of Annual return on fixed assets	-	fixed Assets=Rs . 10168377.81 lakhs	no comments.

---

**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
MCDR17	Rule 27(2)	08/12/2022			

**Date :**

**(T.PHALTHURAJHEN)**

Indian Bureau of Mines