

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR.SENTHIL KUMAR -MINES MANAGER,MR. KERTIKEYAN DY.MAN
Official with
Designation
- (iv) Date of Inspection : 17-JUN-18
- (v) Prev.inspection date : 04-AUG-14

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : ANANDAVADI
- (b) **Registration NO.** :
- (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 :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** : 01-SEP-01
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S TAMILNADU CEMENT CORPORATION LTD
3. (a) **Lease Number** : TMN0772
- (b) **Lease area** : 110.68
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 13-JUL-30
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 : K.VEERAPPAN
 PERAMBALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : R. jayaprakash Narayanan,Part Time
 Qualification : BE-Mining
 Appointment/ : 13-AUG-14
 Termination date

Geologist

Name : S.Prasad,Full Time
 Qualification : Msc (Geology)
 Appointment/ : 21-JUL-11
 Termination date

Geologist

Name : R.MUTHAIYAN,Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ :
 Termination date

Manager

Name : TSantha kumar
 Qualification : B E (Mining)
 Appointment/ : 23-AUG-07
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	06-OCT-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	25-APR-12
		Mining Scheme rule 12 MCDR1988	22-JAN-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5	NIL	VIOLATION ISSUED
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	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	NIL	21.84M TONNES	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	VIOLATION ISSUED IN BACKLOG DRILLING

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North pit 150000 cum per year South Pit 225000 cum per year	North pit 12890.66 cum per year South Pit 70227.30 cum per year	nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	0.5 metre	0.5 metre	nil
2c	Stripping ratio or ore to OB ratio	1:0.5	nil	nil
2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	nil	nil	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	nil	nil	nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	two	nil
3b	Quantity of ROM mineral production proposed	750000 cum per year	40740.15 cum for the year 2018 to till date	nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	nil
3d	Quantity of mineral reject generation	375000 cum per year	83117.96 cum for the year 2018- till date	nil
3e	Grade of mineral rejects generation and threshold value declared.	na 18-20% Cao	na 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	Mechanised Method	Mechanised Method	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	no	nil	nil
3k	Provision of mining machineries in mineral benches	yes	yes, Non Convetional Method of Mining	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	3.045 Ha	3.045 Ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.05	1:1.05	nil
3o	Total area put in use under different heads at the end of year	mining=2ha dump=0.5ha roads=.25ha greenbelt=.25h a office and others=.18ha	mining=2ha dump=0.5ha roads=.25ha greenbelt=.25ha office and others=.045ha	nil
3p	Production of ROM mineral during the last five year period as applicable	" 2014-15 - 260000 T 2015-16 - 260000T 2016-17 - 260000 T 2017-18 - 260000 T 2018-19 - 260000 T Total - 1300000 T"	" 2014-15 - Nil T 2015-16 - Nil T 2016-17 - Nil T 2017-18 - 58514.56 T 2018-19 - 81480.30 T Total - 139994.86 T"	nil, within range
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	nil
4b	Location of topsoil, OB and mineral reject dumps	north east	north east	nil
4c	Number of dumps within lease area and outside of lease area	nil	nil	nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	as per plan	nil
4e	Number of active and alive dumps.	one	one	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	proposal given for garland Drainage in Modified Mining Plan	yes	nil
4i	Length of Retaining wall or garland drain all along dumps	na	nil	nil
4j	Number of settling ponds	nil	nil	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	NIL
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)	NA	NA	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	NOT APPLICABLE
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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	not submitted	violation issued
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	5.00ha	5.00ha	nil
6d	No. of saplings planted during the year	1500	1500nos	nil
6e	Cumulative no .of plants	6500	6500	nil
6f	Any other method of rehabilitation	na	na	nil
6g	Cost incurred on watch and care during the year	0.50lakhs	0.50lakhs	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	na	na	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	na	na	nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	na	na	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	YES	DONE
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP YEARLY REPORT NOT SUBMITTED VIOLATION ISSUED.

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	NIL

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised Method	Mechanised Method	Using Sieve Bucket NIL
7c	Different grade of mineral sorted out at mines.	Not proposed	Even grage	NIL
7d	Any beneficiation process at mines	NO	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	Topsoil dumped in Lease Boundary and used for Afforestation	NIL
8b	Concurrent use or storage of topsoil	Not proposed	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Active Dump available at the proposed area	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	6500 NOS	6500NOS	NIL
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WATER TANKER IS BEING USED	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	NIL	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	GIVEN	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	PROVIDED	AS PROVIDED	NIL
9d	Scrutiny of Annual return on afforestation	YES GIVEN	AS GIVEN	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	NA	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	GIVEN IT IS CAPTIVE MINE	GIVEN IT IS CAPTIVE MINE	NIL
9h	Scrutiny of Annual return on fixed assets	GIVEN	AS GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN	AS 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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines