

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

FMCP Inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST & MARL-15.MDS

Mine code : 38TMN38034

- (i) Name of the Inspecting : **K08**) **G.SORNADURAI KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru.K.Shankar, QP & S.Ramesh, GM-Mines
Official with
Designation
- (iv) Date of Inspection : 21/12/2022
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAKKAMBADI(4.995HA)**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TAMIL NADU**
- District : **ARIYALUR**
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **914428291558**
- E-mail : **info@chettinadcement.com**
- Phone : **914442149955, 42951800**
- (f) **Police Station** : **Sendurai**
- (g) **First opening date** :
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **Rani seethai Hall Building, 603, Anna salai,**
correspondance **chennai-600006. Tel no:044-28292727,**
Fax: 044-28291558, Email: chtmds@vsnl.com
3. (a) **Lease Number** : **TMN1611**
- (b) **Lease area** : **5**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **21/04/2033**
4. **Mineral worked** : **MARL** **Associated**
LIMESTONE **Main**

5. Name and Address of the

Lessee : M/s CHETTINAD CEMENT CORPN. LTD
4TH FLOOR, RANI SEETHAI
HALL BUILDING 603, ANNA
SALAI CHENNAI CITY TAMIL
NADU
Phone:044 - 8272727
FAX :044 - 8241416

Owner : M/S CHETTINADU CEMENTS CORP.LTD.
603, ANNA SALAI CHENNAI
CHENNAI CITY TAMIL NADU
Phone:
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 24/01/2014
MP review under 17(1) MCR 2016 14/12/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Boreholes has been proposed during 2020-2021.	No Boreholes has drilled	No Proposal has been given for 2021-2022
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2021-2022	3 Boreholes has been drilled with 35m	Entire lease area is proved upto 20m depth and under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2021-2022	3 Boreholes has been drilled	So far 9 boreholes have been drilled in the lease upto 2021-2022.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2021-2022.	3 Boreholes has been drilled during 2021-2022.	Entire area has been explored under G-1 category with 50m X 50m grid interval.
1e	Balance reserve as on 01/04/20	As on 01.04.2022 Proved Mineral Reserves (111) = 139500 tons Feasibility Mineral Resources (211) = 151500 tons	As on 01.04.2022 Proved Mineral Reserves (111) = 12772 tons Feasibility Mineral Resources (211) = 151500 tons	The available grade of Limestone in this lease cement Grade. The mine is not in operation for 2017-2018.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Cretaceous formations	The deposit consists of highly weathered and crushed gneiss. The limestone bed has cavities filled with clay materials.	Limestone is whitish and greyish white, quartz grains are also seen within limestone beds.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During 2021-2022, working proposal was in Second bench in section line X-X'	Nil	The mine is not in operation from 2017-2018.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Minerals - 3 Benches	Nil	The mine is not in operation from 2017-2018.
2c	Stripping ratio or ore to OB ratio	1 : 0.00	Nil	The mine is not in operation from 2017-2018.
2d	Quantity of topsoil generation in m3	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.
2e	Quantity of overburden generation in m3	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2021-2022, working proposal was in second bench in section line X-X'	No Topsoil and OB Proposed during 2021-2022	The mine is not in operation from 2017-2018 for statutory clearance.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was Proposed in Section line X-X'.	Nil	The mine is not in operation from 2017-2018.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production proposed was 10008 tons during 2021-2022.	Nil	The mine is not in operation from 2017-2018.
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	Nil	The mine is not in operation from 2017-2018.
3d	Quantity of mineral reject generation	No Mineral Rejects has been proposed.	Nil	The mine is not in operation from 2017-2018.

3e	Grade of mineral rejects generation and threshold value declared.	No Mineral Rejects has been proposed.	Nil	The mine is not in operation from 2017-2018.
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	Nil	The mine is not in operation from 2017-2018.
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	Nil	The mine is not in operation from 2017-2018.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Nil	The mine is not in operation from 2017-2018.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed	Nil	The mine is not in operation from 2017-2018.
3j	Provision of drilling and blasting in mineral benches	No Drilling & blasting are proposed.	Nil	The mine is not in operation from 2017-2018.
3k	Provision of mining machineries in mineral benches	Excavators Rock Breakers Tippers	Nil	The mine is not in operation from 2017-2018.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2021-2022, Bench height of 4m was proposed in Mineral.	Nil	The mine is not in operation from 2017-2018.
3m	Total area covered under excavation/pits	4.04 hect area is proposed for Pit during 2021-2022	4.04 hect areas are under Pit only.	Proposal of working is within existing pit, so the mined out area is same.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.00	Nil	The mine is not in operation from 2017-2018.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2022. Mines = 4.04 hect Green Belt = 0.808 hect	Land use Pattern as on 01.04.2022. Mines = 4.04 hect Green Belt = 0.808 hect	Landuse pattern is same as per proposal due of non-working of mines.

3p	Production of ROM mineral during the last five year period as applicable	2021-2022 = 10008 tons 2020-2021 = 20064 tons 2019-2020 = 20080 tons 2018-2019 = 76576 tons 2017-2018 = 103191 tons	2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil 2017-2018 = Nil	The mine is not in operation from 2017-2018 for want of statutory clearance.
3q	General remarks of inspecting officers on method of mining etc.	Production was Proposed in Section line X-X'.	The total target of ROM Production proposed was 10008 tons during 2021-2022.	The mine is not in operation from 2017-2018 for want of statutory clearance.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for dumping during 2021-2022	Nil	The mine is not in operation from 2017-2018.
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for generation of OB & Mineral reject during 2021-2022.	Nil	The mine is not in operation from 2017-2018.
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Non Lease area = Nil	Lease area = 1 Non Lease area = Nil	Dumps are old and existing as per approved plan.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	The mine is not in operation from 2017-2018.
4e	Number of active and alive dumps.	Active Dump = Nil	Nil	The mine is not in operation from 2017-2018.
4f	Number of dead dumps.	No Proposal	Nil	The mine is not in operation from 2017-2018.
4g	Number of dumps established.	No Dumps have been established.	Nil	The mine is not in operation from 2017-2018.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	The mine is not in operation from 2017-2018.

4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	The mine is not in operation from 2017-2018.
4j	Number of settling ponds	No Proposal	Nil	The mine is not in operation from 2017-2018.
4k	Specific comments of inspecting officer on waste dump management	There is no proposal for dumping during 2021-2022	There is no proposal for generation of OB & Mineral reject during 2021-2022.	The mine is not in operation from 2017-2018 for want of statutory 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.	No proposal for backfilling during 2021-2022	No backfilling has done during 2021-2022	The mine was not worked upto the proved depth and no backfilling were proposed during 2021-2022.
5b	Area under backfilling of mined out area	No Proposal	Nil	The mine is not in operation from 2017-2018.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	The mine is not in operation from 2017-2018.
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	The mine is not in operation from 2017-2018.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no proposal for backfilling during 2021-2022	The mine was not worked upto the proved depth and no backfilling were proposed during 2021-2022.	The mine is not in operation from 2017-2018 for want of statutory 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).	It should be on or before 1st July every year.	Submitted for the year 2021-2022.	Submitted within time limit.

6b	Area available for rehabilitation (ha) .	No Proposal	Nil	The mine is not in operation from 2017-2018.
6c	afforestation done (ha) .	Gap Plantation	No Gap Plantation	The mine is not in operation from 2017-2018. Violation has been issued for no plantation.
6d	No. of saplings planted during the year	500 saplings proposed	No saplings has been planted	The mine is not in operation from 2017-2018. Violation has been issued for no plantation.
6e	Cumulative no .of plants	4000 saplings from 2018-2022	900 saplings from 2018-2022	The mine is not in operation from 2017-2018.
6f	Any other method of rehabilitation	No Proposal	Nil	The mine is not in operation from 2017-2018.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	The mine is not in operation from 2017-2018.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	The mine is not in operation from 2017-2018.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	The mine is not in operation from 2017-2018.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	The mine is not in operation from 2017-2018.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	The mine is not in operation from 2017-2018.

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	The mine is not in operation from 2017-2018.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	500 saplings proposed along the safety barrier of lease area for 2021-2022	No saplings have been planted within lease area during 2021-2022.	The mine is not in operation from 2017-2018. Violation has been issued for no plantation.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Gap plantation Proposed in lease area for 2021-2022	No plantation has been planted.	The mine is not in operation from 2017-2018. Violation has been issued for no plantation.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Green Belt development along 7.5m safety barrier.	No Plantation has been done as per proposal along the safety barrier.	The mine is not in operation from 2017-2018. Violation has been issued for no plantation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Nil	The mine is not in operation from 2017-2018.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	500 saplings proposed along the safety barrier of lease area for 2021-2022	No Plantation has been done as per proposal along the safety barrier.	The mine is not in operation from 2017-2018 for want of statutory clearance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production proposed was 10008 tons during 2021-2022.	Nil	The mine is not in operation from 2017-2018.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade wise mineral sorting in the lease area.	Nil	The mine is not in operation from 2017-2018.

7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is cement grade	Nil	The mine is not in operation from 2017-2018.
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	The mine is not in operation from 2017-2018.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production proposed was 10008 tons during 2021-2022.	The Limestone of the lease area is cement grade	The mine is not in operation from 2017-2018 for statutory clearance.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.
8b	Concurrent use or storage of topsoil	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no proposal for dumping during 2021-2022	Nil	The mine is not in operation from 2017-2018.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal during 2021-2022	Nil	The mine is not in operation from 2017-2018.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings proposed along safety barrier in lease area for 2021-2022	No saplings have planted within lease area during 2021-2022.	The mine is not in operation from 2017-2018. Violation has been issued for no plantation during 2021-2022.
8g	Survival rate	No Proposal in the document.	Nil	The mine is not in operation from 2017-2018.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Nil	The mine is not in operation from 2017-2018.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	There is no prominent river or stream running in this area.	Outside lease area, agriculture is done with rainfed.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = November 2022 AR Submitted up to = 2021-2022	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer & Mining Geologist has shown	Nil	The mine is not in operation from 2017-2018 for want of statutory clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2022. Mines & Dump = 4.05 hect	Landuse Pattern is filled as per approved Mining Plan	The mine is not in operation from 2017-2018 for want of statutory clearance.
9d	Scrutiny of Annual return on afforestation	Lessee has not planted any saplings during 2021-2022.	Violation has been issued for no plantation.	The mine is not in operation from 2017-2018 for want of statutory clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	Nil	The mine is not in operation from 2017-2018 for want of statutory clearance.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone stock as on 01.04.2022 ROM opening stock = Nil ROM closing stock = Nil.	There is no production and dispatches during 2021-2022	The mine is not in operation from 2017-2018 for want of statutory clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine price has Zero	It is captive mine of M/s. Chettinad Cement Corporation Ltd.	The mine is not in operation from 2017-2018 for want of statutory clearance.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled	The mine is not in operation from 2017-2018 for want of statutory clearance.
9k	Scrutiny of Annual return on mining machineries	Machineries details not given	Not available in field due to non-working.	The mine is not in operation from 2017-2018 for want of statutory clearance.

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
MCDR17	Rule 11(1)	19/01/2023			
MCDR17	Rule 12(4)	19/01/2023			
MCDR17	Rule 28(1)	19/01/2023			

Date :

(G.SORNADURAI KANNAN)

Indian Bureau of Mines