

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

FMCP Inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-36.MDS

Mine code : 38TMN38042

- (i) Name of the Inspecting : **K08**) **G.SORNADURAI KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. Kamaraj, Mining Engineer & Thiru. Das, Geologi
Official with
Designation
- (iv) Date of Inspection : 02/06/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAIRULABAD-24.63.5HA**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : Kairulabad
- Taluka : Ariyalur
- Post office : Kairulabad
- Pin Code : 621705
- FAX No. : 04329-249217
- E-mail :
- Phone : 04329-249240
- (f) Police Station : ARIYALUR
- (g) First opening date : 10/01/2017
- (h) Weekly day of rest : SUN
2. Address for : REDDIPALAYAM CEMENT WORKS
correspondance REDDIPALAYAM PO
ARIYALUR DT.-621704.
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED
 KARUR TAMIL NADU
 Phone:
 FAX :

Geologist

Name : R BALAMURUGAN, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 19/02/2018
 Termination date

Manager

Name : KAMARAJ.R
 Qualification : B.E Mining, MBA
 Appointment/ : 01/10/2021
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	31/07/2014
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	18/08/2017
		MP review under 17(1) MCR 2016	08/01/2021

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 2022-2023.	No Boreholes has drilled	Inspection has carried out under Verification of implementation of FMCP proposals
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration boreholes was proposed over the lease area during 2022-2023	No Boreholes has drilled	Inspection has carried out under Verification of implementation of FMCP proposals
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2022-2023	No Boreholes has drilled	Inspection has carried out under Verification of implementation of FMCP proposals
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2021-2023.	No Boreholes has drilled	Inspection has carried out under Verification of implementation of FMCP proposals
1e	Balance reserve as on 01/04/20	As on 01.04.2023 Proved Mineral Reserves (111) = 10213 tons Pre-Feasibility Mineral Resources (221) = 318800 tons	As on 01.04.2023 Proved Mineral Reserves (111) = 10213 tons Pre-Feasibility Mineral Resources (221) = 318800 tons. The grade of limestone is highly siliceous.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Cretaceous formations.	The formation is belongs to Niniyur stage. The deposit is un-conformably overlain by Cuddalore sandstone.	Limestone beds carry inclusions of marl, clay & sand stone.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
2c	Stripping ratio or ore to OB ratio	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
2d	Quantity of topsoil generation in m3	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
2e	Quantity of overburden generation in m3	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No Proposal during 2022-2023	No working proposal has been given in approved FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3b	Quantity of ROM mineral production proposed	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3c	Recovery of sailable/usable mineral from ROM production	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3d	Quantity of mineral reject generation	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

3e	Grade of mineral rejects generation and threshold value declared.	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3f	Quantity of sub grade mineral generation.	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3g	Grade of sub grade mineral generation	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3j	Provision of drilling and blasting in mineral benches	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3k	Provision of mining machineries in mineral benches	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3m	Total area covered under excavation/pits	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. Excavated area = 9.832 hect Road = 0.06 hect Green belt = 6.279 hect	Land use Pattern as on 01.04.2023. Excavated area = 9.832 hect Road = 0.06 hect Green belt = 6.279 hect	Inspection has carried out under Verification of implementation of FMCP proposals
3p	Production of ROM mineral during the last five year period as applicable	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = 100458 tons 2019-2020 = 104957 tons 2018-2019 = 105116 tons	2022-2023 = Nil 2021-2022 = Nil 2020-2021 = 100462 tons 2019-2020 = 91954 tons 2018-2019 = 105146 tons	Inspection has carried out under Verification of implementation of FMCP proposals
3q	General remarks of inspecting officers on method of mining etc.	No Proposal during 2022-2023	No working proposal has been given in approved FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

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 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4c	Number of dumps within lease area and outside of lease area	There is no proposal during 2022-2023	No dump is existing in the lease area.	Inspection has carried out under Verification of implementation of FMCP proposals

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4e	Number of active and alive dumps.	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4f	Number of dead dumps.	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4g	Number of dumps established.	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4h	Whether Retaining wall or garland drain all along dumps are there.	There is no proposal during 2022-2023	Garland drain and fencing are made.	Inspection has carried out under Verification of implementation of FMCP proposals
4i	Length of Retaining wall or garland drain all along dumps	There is no proposal during 2022-2023	Garland drain has made for 1500m and fencing are constructed around the lease area.	Inspection has carried out under Verification of implementation of FMCP proposals
4j	Number of settling ponds	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
4k	Specific comments of inspecting officer on waste dump management	No Proposal during 2022-2023	Garland drain and fencing are made.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	There is no proposal during 2022-2023	All the pits are backfilled with existing dumps. Backfilling has carried out upto ground level before the approval of FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals
5b	Area under backfilling of mined out area	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
5d	Total area fully reclaimed and rehabilitated	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no proposal during 2022-2023	All the pits are backfilled with existing dumps. Backfilling has carried out upto ground level before the approval of FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

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 2022-2023.	Submitted within time limit.
6b	Area available for rehabilitation (ha) .	8.343 hect	8.343 hect	Inspection has carried out under Verification of implementation of FMCP proposals
6c	afforestation done (ha).	8.343 hect	8.343 hect	Inspection has carried out under Verification of implementation of FMCP proposals

6d	No. of saplings planted during the year	16686 saplings proposed	17600 saplings has been planted	Plantation are planted in worked out pit, slopes are made on benches and grass are planted.
6e	Cumulative no .of plants	16686 saplings	17600 saplings	Plantation are planted in worked out pit, slopes are made on benches and grass are planted.
6f	Any other method of rehabilitation	Pit plantation	Pit plantation	Inspection has carried out under Verification of implementation of FMCP proposals
6g	Cost incurred on watch and care during the year	10.0 lakhs	14.00 lakhs	Inspection has carried out under Verification of implementation of FMCP proposals
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Carried out	Inspection has carried out under Verification of implementation of FMCP proposals
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	16686 saplings proposed	17600 saplings has been planted	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

7c	Different grade of mineral sorted out at mines.	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
7d	Any beneficiation process at mines .	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	There is no proposal during 2022-2023	There is no working proposal in approved FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
8b	Concurrent use or storage of topsoil	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is no proposal during 2022-2023	Nil	Inspection has carried out under Verification of implementation of FMCP proposals
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	16686 saplings proposed	17600 saplings has been planted	Inspection has carried out under Verification of implementation of FMCP proposals
8g	Survival rate	No Proposal in the document.	75%	Inspection has carried out under Verification of implementation of FMCP proposals
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed.	Carried out	Inspection has carried out under Verification of implementation of FMCP proposals
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, small seasonal shallow streams.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = May 2023 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	Annual Return for 2022-2023 is not submitted.	During inspection Mining Engineer is present.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Return for 2022-2023 is not submitted.	Nil	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
9d	Scrutiny of Annual return on afforestation	Annual Return for 2022-2023 is not submitted.	Lessee has planted 17600 saplings in FMCP period.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Return for 2022-2023 is not submitted.	Nil	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for 2022-2023 is not submitted.	Nil	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for 2022-2023 is not submitted.	It is captive mine of M/s. Ultratech cements Ltd	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

9h	Scrutiny of Annual return on fixed assets	Annual Return for 2022-2023 is not submitted.	Nil	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.
9k	Scrutiny of Annual return on mining machineries	Annual Return for 2022-2023 is not submitted.	Not available in field due to FMCP.	Inspection has carried out under Verification of implementation of FMCP proposals as per Rule 21(4) of MCDR 2017 for grant of certificate under final closure.

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 :

(G.SORNADURAI KANNAN)

Indian Bureau of Mines