# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### MCDR inspection REPORT

#### Chennai regional office

Mine file No: TN/ALR/LST-32.MDS Mine code: 38TMN38043

(i) Name of the Inspecting : M017 ) Matiul Islam

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Mr Anand Kumar R S (Mine Manager) & Mr G Srithar (Geo

Official with Designation

(iv) Date of Inspection : 17/11/2020
(v) Prev.inspection date : 07/11/2019

#### PART-I : GENERAL INFORMATION

(a) Mine Name : OTTAKOIL-74.38HA

(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 : Ottakovil
Taluka : Ariyalur
Post office : Ottakovil
Pin Code : 621705

FAX No. : 04329-249217

E-mail : Manoharan.singaraja@adityb:

Phone : 04329249240

(f) Police Station

(g) First opening date : 10/01/2017

(h) Weekly day of rest :

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:

Owner : K.C.Jhanwar

Ultra Tech Cement Limited,

Aditya Birala

Cement,S.K.Ahire Marg Worli,Mumbai MUMBAI (SUBURBAN) MAHARASHTRA

Phone: FAX:

Agent : Rajesh Sankar

Ultra Tech Cement Limited, Reddipalayam post Ariyalur district ARIYALUR TAMIL

NADU

Phone: 04329-249240

FAX :

Mining Engineer

Name : Abhishek Surana, Full Time

Qualification :

Appointment/ : 19/02/2018

Termination date

Geologist

Name : Vishunu Vasu, Full Time

Qualification : M.Sc geology Appointment/ : 01/12/2017

Termination date

Manager

Name : Abhishek Surana

Qualification : BE MINING
Appointment/ : 19/02/2018

Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 30/07/2014 Plan/Scheme of Mining MP modif under 17(3) MCR 2016 18/08/2017

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

### Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Total lease area explored to G1 level
1b	Exploration over lease area for geological axis 1 or 2		G-1	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	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	-	3.445 Million Tonnes	Nil

# Development :

	-			
Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N - 1240064	N -1239864 to N -1240064 E - 293593 to E - 293735	As per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches	Separate benches maintained	As per plan
2c	Stripping ratio or ore to OB ratio	1: 2.53 (Tonne: Tonne)	1: 2.39 (Tonne : Tonne)	OB ratio is less due to less Production.
2d	Quantity of topsoil generation in m3	26,897 m3	27,801 m3	Nil
2e	Quantity of overburden generation in m3			Within limit

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

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	As per proposal
3b	Quantity of ROM mineral production proposed	105879 Т	81949.15 T	Production is less due to lockdown for COVID-19.
3c	Recovery of sailable/usable mineral from ROM production	90% of ROM	90% of ROM	As per plan
3d	Quantity of mineral reject generation	11764 Т	11764 Т	As per plan
3e	Grade of mineral rejects generation and threshold value declared.	Below 30% of CaO	Below 30% of CaO	As proposed
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	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	Nil	Nil	Non-conventional mining without drilling & blasting

3k	Provision of mining machineries in mineral benches	Rock Breakers, Excavators & Tippers proposed	Rock Breakers, Excavators & Tippers deployed	As per proposal
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m	6m	Suitable
3m	Total area covered under excavation/pits	0.5 ha	0.41 ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.53 (Tonne : Tonne)	1: 2.39 (Tonne : Tonne)	Within limits
30	Total area put in use under different heads at the end of year	25.15 На.	25.06 На	Within limit
3p	Production of ROM mineral during the last five year period as applicable	2017-18 5,080.00 2018-19 45,440.00 2019-20 105879.00	2017-18 6075.58 2018-19 45,438.82 2019-20 81949.15	Within limits
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)	Separate dumps proposed		As per proposal
4b	± ,		N-1240084 to N- 1240194/ E- 293155 to E - 293388	As per proposal
4c	Number of dumps within lease area and outside of lease area	2 dumps within the lease area	n 2 dumps within the lease n area	Satisfactory

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As per proposal
4e	Number of active and alive dumps.	2	2	As per proposal
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	_	Satisfactory

### 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.	after complete extraction of	Backfilling not done	As per proposal
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)	Yes	Yes	Topsoil used in afforestation
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil

5e General remarks - of inspecting officers on backfilling and reclamation etc.

Satisfactory

### 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	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	1.13 ha	0.1 ha	Violation issued
6d	No. of saplings planted during the year	2825 nos	200 nos.	Violation issued
бе	Cumulative no .of plants	-	200	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	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)Afforestati on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
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	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
бр	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	Complied
6q 	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	_	Satisfactory

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	105,879 T Dispatch	81949.15 T Dispatch	Production less due to lockdown for COVID-19.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil
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	_	_	Satisfactory

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top Soil partially utilised in afforestation & remaining is stacked for future use.	As per proposal
8b	Concurrent use or storage of topsoil	Yes	Yes	As per proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed	Separate dumps available	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	begin after complete extraction of	Backfilling not yet begun	As per proposal

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2825 sapling proposed to be planted	200 nos of saplings planted in reporting year	Violation issued on inadequate afforestation
8g	Survival rate	80%	60%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation issued for inadequate afforestation

# Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mine Manager - Anand Kumar RS Geologist- G. Srithar	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 3.470 3.470 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.370 0.370 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.300 0.300 (vi) Other Purpose ((Green belt & Others))	Nil
		0.000 24.450 24.450 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.00	
9d	Scrutiny of Annual return on afforestation	4.4 (i) Number of trees planted during the year	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 11764 b. Grade Low Grade	Nil
9f		Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 81949.150 0.000	Nil

9g	-	VI, Sl 2 &	(e) Cement 0.000 81949.000te 81949.000 0.000te Rs205.92	Nil
9h	Scrutiny of Annual return on fixed assets		Total Rs 187557916 0 Rs 1365375 0 Rs186192541 0	Nil
9k	Scrutiny of Annual return on mining machineries		Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast OTHER HEM MACHINERY 10.000 1 Non Electrical Opencast TIPPER 10.000 CUM 5 Non Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non Electrical Opencast	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on Com	mpliance on Ru	ile NO.	Issued on Compliance on	
MCDR17 Rule 1	11(1) 12/01/2021				

Date: (Matiul Islam)

Indian Bureau of Mines