

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.S.Manoharan Asstt.Vice president
Official with
Designation
- (iv) Date of Inspection : 23/02/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (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 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 18/08/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	29 Core bore holes carried out, for a meterage of 1008 m. hence the ML covered under G1 level exploration
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Entire ML area covered under G-1 level exploration
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	Entire ML area covered under G-1 level exploration.
1e	Balance reserve as on 01/04/20	3528249 Tonnes of proved reserves (As on	3527254.6 Tonnes of proved reserves (As on 01.02.2019)	Based on approved modified mining plan TN/ALR/MP/LST-2034-MDS, dated 21/08/2017
1f	General remarks of inspecting officers on geology, exploration etc	--	--	Lessee had drilled 29 Core bore holes, for a meterage of 1008 so far and entire ML covered under G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Year wise development 2018-19 proposed between N1239889 to N1239989 total (length of 100m)	N123840 to N 12400800 (The top soil Pit Length 240m, Mine development pit 120m)	Deviated from the +approved proposal. Violation issued on
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	Separate benches available	NIL

2c	Stripping ratio or ore to OB ratio	1: 1.63 (Tonne : Tonne)	1: 1.80 (Tonne : Tonne)	NIL
2d	Quantity of topsoil generation in m3	7,484 m3 (11,226 Tonnes)	52376 m3 (78,564 Tonnes)	Deviated from the approved proposal. Violation issued on 20.03.19
2e	Quantity of overburden generation in m3	39,507 m3 (71,113 Tonnes)	1731 m3 (3,116 Tonnes)	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	--	Development of pit found away from proposal hence violation has issued

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	one	
3b	Quantity of ROM mineral production proposed	2017-18 = 5080	2017-18 = 6075 tonns	Excess production of 995 tonnes. Violation issued
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	NIL
3d	Quantity of mineral reject generation	5,049 Tonnes	5,613 tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	+ 34% of CaO	+ 34% of CaO	
3f	Quantity of sub grade mineral generation.	Nil	Nil	No Sub grade mineral
3g	Grade of sub grade mineral generation	NIL	NIL	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	NIL
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers are us	Rock breaker, Excavator & Tippers are us	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Meter	6 Meter	NIL
3m	Total area covered under excavation/pits	1.80 Ha	2.25 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.92	1: 1.92	NIL
3o	Total area put in use under different heads at the end of year	2.60 Ha	2.60 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	As per Mod.appoved mining plan 2016-17: nil 2017-18: 5080 T	2016-17: NIL T 2017-18: 6075 2018-19=45439	No mining activit of the First year only exploration has carries out as per the approved mining plan. Base on extortion the modification to approved plan has submitted and approved
3q	General remarks of inspecting officers on method of mining etc.	--	--	Pit development found vary from the approved modified Mining

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumps for Top soil proposed	Carried out As per proposal	NIL
4b	Location of topsoil, OB and mineral reject dumps	Top soil N1239956to NB1240015 E-292989 to E293064 Waste dump N-1240177- N1240258 E-293263- E293389	As per the proposal	
4c	Number of dumps within lease area and outside of lease area	2 within lease area	2 within lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N - 1240177 to N - 1240258 / E - 293263 to E - 293389	N - 1240162 to N - 1240245 / E - 293233 to E - 293372	NIL
4e	Number of active and alive dumps.	2	2	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	Two	Two	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Whether Retaining wall or garland drain all along dumps are there.	No Retaining wall or garland drain is	nil
4i	Length of Retaining wall or garland drain all along dumps	Length of Retaining wall or garland drain all along dumps	No Retaining wall or garland drain is proposed during 2018-19	NIL
4j	Number of settling ponds	No proposal	NA	NIL
4k	Specific comments of inspecting officer on waste dump management	---	----	As per the proposal Carried out

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.	Nil	Nil	Mining operation commence from 2017-18,Pit not matured for backfilling
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)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	--	---	No backfilling at the stage

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).	I st July of Every year	submitted	NIL
6b	Area available for rehabilitation (ha) .	NIL	Not at the stage	New mine rehabilitation does not arise
6c	afforestation done (ha).	1.13 Ha.	0.35 Ha	Plantation under progress
6d	No. of saplings planted during the year	2825	300 Nos. upto 01.02.2019	Plantation under progress
6e	Cumulative no .of plants	2825	300 nos.	NIL
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 11,30,000	Rs. 60,000	Plantation under progress

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Not applicable at this stage
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	Not applicable at this stage
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Not applicable at this stage
6l	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
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	8 Air Stations, 5 Water stations	Complied as per proposalnil	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	---	Not applicable at the stage

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct dispatch of ROM to their captive cement plan	Direct dispatch of ROM to their captive cement plan	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	--	Minerl conservation is being carried out as per approved Mod.mininmgplan

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Top soil Separately removed and made separate dump for future utilization	Top soil Separately removed and made separate dump for future utilization	NIL
8b	Concurrent use or storage of topsoil	Top soil Separately removed and made separate dump for future utilization	Top soil Separately removed and made separate dump for future utilization	Bund formation along ML boundary and plantation purpose
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps Proposed for Topsoil & OB	Separate dumps available	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
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)	New mines	300 nos plantation carried out in 0.35 hect area with Survival rate of 80%	reported Plantation under progress
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkler available on permanent roads. Water tanker used for temporary roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	----	Aaesthetic beauty in and around mines area is found good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns Proposed to sub	Submission of MRs and ARs were regular	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Abhishek Surana-Mining Engineer, Vishu vasu-Geologist	As per the record same	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	NA	New mine
9d	Scrutiny of Annual return on afforestation	2825 nos proposed	300 Nos	Plantation under progras
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	ROM stock and/or graded ore was NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Mine price and production cost RS-170	Mine price and production cost RS-170	NIL
9h	Scrutiny of Annual return on fixed assets	Rs.73055000	Rs.73055000	
9k	Scrutiny of Annual return on mining machineries	Shovel-1nos, HEM Machinery-1, Tipper-5	Shovel-1nos, HEM Machinery-1, Tipper-5	NIL

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 11(2)	20/03/2019	09/05/2015			

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines