

**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 : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sendil kumar.K GM(mines) & Sumantha Das Geologist
Official with
Designation
- (iv) Date of Inspection : 04/08/2021
- (v) Prev.inspection date : 17/11/2020

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 : 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 :

Owner : K.C.Jhanwar
 Ultra Tech Cement Limited,
 Aditya Biral
 Cement,S.K.Ahire Marg
 Worli,Mumbai MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX :

Agent : Sivaram Varadharajan
 Ultra tech cements
 Reddipalayam works
 Reddipalayam,Ariyalur Dt.
 ARIYALUR TAMIL NADU
 Phone:
 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
	:	MP review under 17(1) MCR 2016	06/01/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	G-1 axis	G-1 axis	Entire ML area was already explored to bring under G-1 level.
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	-	3.226 million tonnes as on 01/04/2021	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1239714 to 1240014 E-293575 to 293783	As per the proposals .	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches proposed in Topsoil,OB,Mineral.	I Topsoilbench, 1 OB bench, 1 Mineral bench formed.	NIL
2c	Stripping ratio or ore to OB ratio	1:2.29	1:0.51	Due to less OB removal.
2d	Quantity of topsoil generation in m3	33352 cu.m	41520 cu.m.	NIL
2e	Quantity of overburden generation in m3	161130 cu.m	NIL	Violation pointed out for non adherence to the proposals.

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

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	NIL
3b	Quantity of ROM mineral production proposed	156350 tonnes	156370 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	90% of ROM	90% of ROM	NIL
3d	Quantity of mineral reject generation	17372 tonnes.	17300 tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Below 30 % CaO	Below 30 % CaO	As per proposal
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	No sub grade generation.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical	Mechanical.	No segregation at mine, only at plant.
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 method of mining adopted.

3k	Provision of mining machineries in mineral benches	Rock breaker,Excavator and Tipper combination proposed.	Rock breaker,Excavator and Tipper combination deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m benches proposed.	6m heigh benches maintained as per proposal.	NIL
3m	Total area covered under excavation/pits	5.54 HC	4.083 HC	With in limits.
3n	Ore to OB ratio for the pit/mine during the year.	1:2.29	1:0.51	Due to less devlopment work.
3o	Total area put in use under different heads at the end of year	38.20 Hc	30.346 Hc	With in limits.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 -5080 tonnes 2018-19 -45440 tonnes 2019-20 - 105879 tonnes 2020-21- 156350 tonnes 2021-22 - 70218 tonnes	2017-18 - 6075 tonnes 2018-19- 45438 tonnes 2019-20 -81949 tonnes 2020-21- 156370 tonnes 2021-22 - 15856 tonnes(till june 2021)	NIL
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 for Topsoil and OB proposed.	Separate dumps for topsoil maintained.	part of topsoil used for plantation purpose, and OB removed used for making road with in ML and reinforcement of Banks of pond.

4b	Location of topsoil, OB and mineral reject dumps	N-123995 to N-1240015 E-293052 to E-293166	N-123995 to N-1240015 E-293052 to E-293166	OB material used for roads formation in ML area and reinforcement of tank bunds.
4c	Number of dumps within lease area and outside of lease area	2 dumps within lease area.	2 dumps with in lease area.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	out side UPL	NIL
4e	Number of active and alive dumps.	2	2	NIL
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.	No proposals given for backfilling.	No back filling done.	Mine is in advance stage.
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 for Plantation purpose.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Mine is in advancing stage.
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	mine is in devloping stage.
6c	afforestation done (ha).	1.11 Hc.	2.67 Hc.	NIL
6d	No. of saplings planted during the year	2775	4000	NIL
6e	Cumulative no .of plants	--	4350	NIL
6f	Any other method of rehabilitation	NIL	NA	NIL
6g	Cost incurred on watch and care during the year	Rs.555000/-	Rs.495000/-	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NA	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Quarterly monitoring reports submitted.	NIL

6q	General remarks -- of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine is in developing stage.	Satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	156350 tonnes of ROM proposed.	156370 tonnes despatched.	NIL
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	NIL	Nograde wise separation.	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	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.	Topsoil removed was stacked in topsoil dump and some topsoil utilised for plantation purpose.	NIL
8b	Concurrent use or storage of topsoil	YEs.	Top soil stored for future utilisation and used for plantation.	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps Maintained as proposed.		NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No backfilling proposed.	NA	Mine is in developing stage.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2775	4000	NIL
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling done to arrest dust.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Monthly returns and Annual returns submitted for the year 2020 - 21.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Mines manger: Anandkumar RS. Mining Engineer : Manivel Geologist : Srithar.G..	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in part-1,Sl.no:12.	Area under workedout & abondend and current workings shown wrongly. Waste disposal :2.943 HC Plant building etc.0.52 Hc.Green belt and safety zone :22.60 Hc.	Violation pointed out.
9d	Scrutiny of Annual return on afforestation	Details given.	4000 saplings planted with 80% survival rate.	Furnished under Part-V,para 4.4.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	17372 tonnes	Furnished underpart-V, column4.2
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	156369.700 tonnes	furnished under part-VI, item-2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Rs.210.38 Hc	Furnished part-VI &VII
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.82718667/-	Furnished part-II A.
9k	Scrutiny of Annual return on mining machineries	Details given	Shovel(Hydraulic)0.9 cu.m 2Nos. Truck-25 tonnes,10 Nos Other HEM-30, 1No Water Tanker-5000 Lts., 1 NO.	Furnished under part-V, sec 5/6/8/9

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(1)	08/09/2021			
	Rule 45(7)	08/09/2021			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines