

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/Lst-3/Mds

Mine code : 38TMN38012

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. MANOHARAN- VP(MINES) AND OTHERS
Official with
Designation
- (iv) Date of Inspection : 27-SEP-18
- (v) Prev.inspection date : 13-FEB-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : ALANTHURAIKATTALAI-4557
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address** :
State : TAMIL NADU
District : ARIYALUR
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 04329 - 220212 / 249253
E-mail : devanand.m@adityabirla.com
Phone : 04329 - 249240 - 49 / 2492:
- (f) **Police Station** :
- (g) **First opening date** : 01-APR-10
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : REDDIPALAYAM CEMENT WORKS
ULTRATECH CEMENT LTD.
REDDIPALAYAM, ARIYALUR
3. (a) **Lease Number** : TMN1046
- (b) **Lease area** : 35.22
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 16-FEB-29
4. **Mineral worked** : LIMESTONE Main

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	G1	G1	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	-	2390000 MT	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	ALL AREA EXPLORED IN G1 CATEGORY SATISFACTORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NORTH AND EASTERN PART OF THE LEASE	NORTH AND EASTERN PART OF THE LEASE	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPERATE BENCHES IN TOPSOIL AND OB /MINERAL PROPOSED	SEPERATE BENCHES AVAILABLE	NIL
2c	Stripping ratio or ore to OB ratio	1:1.59	1:2.74	NIL
2d	Quantity of topsoil generation in m3	40448	31963	NIL
2e	Quantity of overburden generation in m3	534052	255711	NIL

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	NIL
3b	Quantity of ROM mineral production proposed	299267	299943	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	128257	47945	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity 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.	NA	NA	NIL
3j	Provision of drilling and blasting in mineral benches	NO	NIL	NIL
3k	Provision of mining machineries in mineral benches	YES	ROCK BREAKER/ WATER TANKER/ DUMPERS/SHOVELS	NIL

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES 6 MTR	6 MTR	NIL
3m	Total area covered under excavation/pits	5.85 HA	5.85 HA	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:1.59	1.2.74	NIL
3o	Total area put in use under different heads at the end of year	MINING=5.85 HA DUMP=2.12HA ROADS=1.02 HA GREEN BELT=2.54 HA BACKFILLING=1.25 HA MISC=.5HA BARREN LAND=21.54	MINING=5.85 HA DUMP=2.12HA ROADS=1.02 HA GREEN BELT=2.54 HA BACKFILLING=1.25 HA MISC=.5HA BARREN LAND=21.54	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14=301508 2014-15=292432 2015-16=297764 2016-17=298280 2017-18=299267	2013-14=88700 2014-15=166442 2015-16=149017 2016-17=256250 2017-18=299943	WITHIN LIMIT
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)	SEPERATE DUMPS	SEPERATE DUMPS AVAILABLE	NIL
4b	Location of topsoil, OB and mineral reject dumps	BACKFILLING	BACKFILLING - STOCK MADE IN NON-PROPOSED AREA	VIOLATION ISSUED.
4c	Number of dumps within lease area and outside of lease area	4 WITHIN LEASE	4 WITHIN LEASE	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	SOUTH AND WESTERN PART OF THE LEASE	SOUTH AND WESTERN PART OF THE LEASE	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	4	4	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	RETAINING WALL AND GARLAND DRAINS ARE MADE	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	670 MTR GARLAND DRAINS ARE MADE	NIL
4j	Number of settling ponds	NIL	1	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.	BACKFILLING AFTER EXHAUST OF MINERAL	BACKFILLING AFTER EXHAUST OF MINERAL IS GOING ON	NIL
5b	Area under backfilling of mined out area	1.70 HA	1.70 HA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	TOPSOIL SPREADING IN BACKFILLED AREA	TOPSOIL SPREADING IN BACKFILLED AREA IS DONE	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	2.53 HA	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	SATISFACTORY
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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).	29/05/2017 AR	AR- SUBMITTED ON 30.06.2018	NIL
6b	Area available for rehabilitation (ha) .	4.84 HA	4.84 HA	NIL
6c	afforestation done (ha).	0.70 HA	0.70HA	NIL
6d	No. of saplings planted during the year	-	1457 SAPLINGS	NIL
6e	Cumulative no .of plants	NIL	7678 PLANTS	NIL
6f	Any other method of rehabilitation	NA	NIL	NIL
6g	Cost incurred on watch and care during the year	NIL	1.15 LAKHS	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	170*78*24 M	45*40*24 M	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.698 HA	0.17 HA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.315 HA	1457 SAPLINGS PLANTED ON 0.7 HA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	7 AIR STATIONS , 5 WATER STATIONS	7 AIR STATIONS , 5 WATER STATIONS SAMPLING IS BEING DONE QUARTERLY	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	299943 MT OF ORE DESPATCHED 100% ROM NO SORTING IS BEING DONE	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL MINING	MECHANICAL	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)	TOPSOIL UTILIZED FOR AFFORESTATION	TOPSOIL UTILIZED FOR AFFORESTATION	NIL
8b	Concurrent use or storage of topsoil	YES	TOPSOIL IS BEING SPREAD IN BACKFILLIED AREA.	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	SEPERATE DUMPS ARE MADE	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	AFTER BACKFILLING TOPSOIL IS BEING SPREAD IN BACKFILLED AREA.	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	BACKFILLING IS BEING DONE.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 PLANTS	6221 PLANTATION IS DONE IN BACKFILLED AREA AND IN 4.5 HA.	NIL
8g	Survival rate	90%	93%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	WATER TANKER IS BEING USED FOR DUST SUPPRESSION	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED	SUBMITTED IN TIME	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	PROVIDED IN AR AS GIVEN		NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	GIVEN IN AR	NO COMMENTS	NIL
9d	Scrutiny of Annual return on afforestation	PROVIDED IN APPROPRIATE TABLE	FOUND AS PROVIDED	NIL

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	PROVIDED	AS PROVIDED	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL AS THE MINE IS CAPTIVE MINE	CAPTIVE MINE NO SALE AND NO PRICE.	NIL
9h	Scrutiny of Annual return on fixed assets	PROVIDED	AS PROVIDED NO DISCRIPENCIES	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN IN AR	FOUND AS GIVEN	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(1)	10-OCT-18	MCDR17	Rule 11(1)	10-OCT-18
MCDR17	Rule 31(4)	10-OCT-18	MCDR17	Rule 31(4)	10-OCT-18

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines