INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-19.MDS Mine code: 38TMN38016

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

Officer and ID No.

: Assistant Controller Mine (ii) Designation

(iii) Accompaning mine : Shri Sendil Kumar K (Mines Manager) & Shri Sumanta Da

Official with Designation

(iv) Date of Inspection : 19/11/2020 (v) Prev.inspection date : 03/12/2019

PART-I : GENERAL INFORMATION

(a) Mine Name : VILLIPERINGYAM-43.04-ML2

(b) Registration NO. : IBM/441/2011

(C) Category : A Fully Mechanised

(d) Type of Working Opencast

Postal address (e)

> State : TAMIL NADU District ARIYALUR

Village Taluka Post office Pin Code

04329249253/249363 FAX No.

E-mail rajesh.sankar@adityabirla.

04329-249240/249249 Phone

(f) Police Station : Vikramangalam

First opening date : 25/04/2006 (g)

Weekly day of rest (h) : SUN

Address for : REDDIPALAYAM PO correspondance

ARIYALUR DT

TAMILNADU- 621704

3. : TMN0991 Lease Number (a) : 43.4 (b) Lease area : 30 Period of lease (C)

> (d) Date of Expiry **:** 24/04/2036

4. Mineral worked : LIMESTONE Main 5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED

POST-REDDIPALAYAM, TEHSIL-ARIYALUR ARIYALUR TAMIL

NADU Phone: FAX:

Owner : JHANWAR.K.C

Ultra Tech Cement

Ltd.Aditya Birla S.K. Ahire

Marg, Worli, Mumbai.

GREATER BOMBAY MAHARASHTRA

Phone: FAX:

Agent : RAJESH SANKAR

Reddipalayam Post, Ariyalur Dist. ARIYALUR TAMIL NADU

Phone: 04329249240

FAX :

Mining Engineer

Name : MR.SENTHIL KUMAR, Full Time

Qualification : B.E IN MINING Appointment/ : 27/04/2017

Termination date

Geologist

Name : SUMANTA DAS,Full Time

Qualification : MSC GEOLOGY Appointment/ : 12/12/2017

Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 27/03/2012 Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 23/02/2016

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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 area already explored upto G-1 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	-	4.333 Mil.T of proved reserves	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NE Side to SE side of the pit		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: 1.02 (Tonne : Tonne)	1: 0.17 (Tonne : Tonne)	Within limit
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	682,135.6 m3 (1,227,844 Tonnes)	639.46 m3 (1,151.02 Tonnes)	Less waste generation due to less ROM production

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 no.	1 no.	As per plan
3b	Quantity of ROM mineral production proposed	1,199,988 T	390,571.37 T	Production less due to heavy rainfall & plant maintenance
3c	Recovery of sailable/usable mineral from ROM production	70% of ROM	70% of ROM	As per plan
3d	Quantity of mineral reject generation	420775 T	63911.68 T	Within limit
3e	Grade of mineral rejects generation and threshold value declared.	below 34% of CaO	below 34% of CaO	Nil
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	Nil	Nil	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 breaker, Excavator & Tippers proposed	Rock breaker, Excavator & Tippers deployed	As per Plan
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Meter	6 Meter	Suitable
3m	Total area covered under excavation/pits	0.60 на	0.57 На	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.02 (Tonne : Tonne)	1: 0.17 (Tonne : Tonne)	Within limit
30	Total area put in use under different heads at the end of year	41.183 На	41.183 На	As per plan
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 2,009,800 T 2016-17: 1,199,997 T 2017-18: 1,199,862 T 2018-19: 1,199,689 T 2019-20 1,199,988 T	2015-16: 433,621.70 T 2016-17: 601,788.17 T 2017-18: 814,394.33 T 2018-19: 346,308.66 T 2019-20 390,571.37 T	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	Separate Dumps maintained	As per plan
4b	Location of topsoil, OB and mineral reject dumps	Backfilling proposed	OB/mineral rejects are dumped on eastern side of the lease area	Backfilling not carried out as full extraction of mineral is not yet complete

4c	Number of dumps within lease area and outside of lease area	1 within lease area	e 1 within lease area	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	1	1	As per plan
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	Retaining Wall / Garland Drain constructed between the dump and uppu odai	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Retaining wall - 20m X 0.2m X 1.5m Garland Drain - 100 m	Constructed between the dump and uppu odai
4j	Number of settling ponds	01	01	As per plan
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.	carried out upon full extraction of	Bacfilling to be carried out after full extraction of mineral	Nil
5b	Area under backfilling of mined out area	0.85 ha	Nil	Full extraction of mineral not yet achieved due to low production over the scheme period

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation envisaged	No top soil generated	Nil
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
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	-	Submitted in time	Nil
6b	Area available for rehabilitation (ha) .	0.85 На	Nil	Backfilling not carried as full extraction of Limestone not yet complete due to low production over the scheme period
6c	afforestation done (ha).	1.96 на	Nil	Afforestation to be carried out after backfilling.
6d	No. of saplings planted during the year	4520 nos (3920 nos on backfilled area & 600 nos along mine periphery/virg in area)		No afforestation on backfilled area as backfilling not yet begun. Virgin area afforestation in line with proposal.
6e	Cumulative no .of plants	11,320 nos.	8,800 nos.	No afforestation on backfilled area as backfilling not yet begun. Virgin Area afforestation in line with proposal.
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	92 X 92 X 52	Nil	Voids not available for backfilling as full extraction of mineral not yet complete
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	92 X 92 X 52	Nil	Voids not backfiled as full extraction of mineral not yet complete
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	1.96 ha	Nil	Afforestation not carried out as backfilling not yet begun
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	NA	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	Nil

60	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)	Proposed	Carried out	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	_	Satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1,199,988 T	390,571.37 T	Production less due to monsoon & plant maintenance
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Nil	Nil	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	-	_	Satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	No top soil envisaged	No top soil excavated	Nil
3b	Concurrent use or storage of topsoil	Nil	Nil	Nil
3c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed	Separate dumps maintained	Nil
3d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling to be carried out after complete extraction of Limestone	Nil
3e	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)	-	8800 no of saplings (cumulative)	Nil
3g	Survival rate	80%	65%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Satisfactory

Actual work

Remarks

Compliance of Rule 45:

Propasals

Item

Sl.No.

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	Mining Engineer - Sendil Kumar.K Geologist - Sumanta Das Manager- Sendilkumar. K	Nil
9c		Given in Part I, Sl. 12	Under forest Outside forest Total (i) Already exploited & abandoned by	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Section 4	closure pla 4.4 (i) Number of trees planted during the year	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 Opencast 4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade	Nil
9f	Scrutiny of	Given in Part	O Category Opening stock	Nil
	Annual return on ROM stock and/or graded ore		(in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 390571.370 0.000	1411
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & 5 & Part VII		Nil
9h	Scrutiny of Annual return on fixed assets		Net Closing Value of Fixed Assets - Rs 15,55,41,476	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DOZER 525.000 HP 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.100 CUM 1 Non Electrical Opencast TIPPER 20.000 CUM 6 Non Electrical Opencast PUMPS (ELEC.) 2000.000 L/MN 1 Electrical Opencast ROCK DRILL (NON-ELEC.) 100.000 MM 1 Non Electrical Opencast	Nil

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Details of violations observed during current inspection and compliance position of violation pointed out				
Viola	tion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date: (Matiul Islam)

Indian Bureau of Mines