INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT 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 Officer and ID No. : **T003) S.THIRUNAVUKKARASU**

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine Official with Designation : Shri.Sendilkumar.K- Mines Manager,Shri.Sumanta Das -

(iv) Date of Inspection : 03/12/2019

(v) Prev.inspection date : 27/02/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VILLIPERINGYAM-43.04-ML2**

(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 :
Taluka :
Post office :
Pin Code :
FAX No. : 04329249253/249363
E-mail : rajesh.sankar@adityabirla.c
Phone : 04329-249240/249249

(f) Police Station : Vikramangalam

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

(h) Weekly day of rest : SUN

2. Address for correspondance : REDDIPALAYAM PO
ARIYALUR DT
TAMILNADU- 621704

3. (a) Lease Number : TMN0991
(b) Lease area : 43.4
(c) Period of lease : 30
(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/ Termination date	:	27/04/2017
Geologist		
Name	:	SUMANTA DAS,Full Time
Qualification	:	MSC GEOLOGY
Appointment/ Termination date	:	12/12/2017

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Mine fully explores under G1 Level	NA
1b	Exploration over lease area for geological axis 1 or 2	NIL	Mine fully explores under G1 Level	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	Mine fully explores under G1 Level
1e	Balance reserve as on 01/04/20	NIL	4.723 Mil.T of proved reserves	NIL
1f	General remarks of inspecting officers on geology, exploration etc	----	---	The geology, exploration is found satisfactory

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North & Southern side of the pit	North & Southern side of the pit	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil, overburden are being followed	Separate benches in topsoil, overburden are being followed	NIL
2c	Stripping ratio or ore to OB ratio	1: 1.04	1 : 0.96	NIL
2d	Quantity of topsoil generation in m3	NIL	No topsoil generatio	NIL
2e	Quantity of overburden generation in m3	460,646 m3 (829,162 Tonnes)	116,427 m3 (209,568 Tonnes)	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	---	Development of pit found systematic

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	1199689 Tonnes	346308.66 Tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	NIL
3d	Quantity of mineral reject generation	420670 Tonnes	121433 Tonnes	Since the total generated mineral reject is less than the threshold limit, quantity generated was backfilled in the worked out pit.
3e	Grade of mineral rejects generation and threshold value declared.	+ 34% of CaO	+ 34% of CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	no sub grade mineral generation.	NIL
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade mineral generation.
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	No beneficiation study proposed and carried	NA
3j	Provision of drilling and blasting in mineral benches	NIL	Rock breaker, Excavator used	NIL
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers are used	Rock breaker, Excavator & Tippers are used	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	41.741 Ha	41.741 Ha	As per the proposal
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.04	1 : 0.96	NIL
3o	Total area put in use under different heads at the end of year	41.741 Ha	41.741 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 2,056,200 T 2015-16: 2,009,800 T 2016-17: 1,199,997 T 2017-18: 1,199,862 T 2018-19: 1,199,689 T	2014-15: 188,677 T 2015-16: 433,622 T 2016-17: 601,788 T 2017-18: 814,394 T 2018-19: 346,308.66 T	All Production well within limit
3q	General remarks of inspecting officers on method of mining etc.	----	---	method of mining is found 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 available	NIl
4b	Location of topsoil, OB and mineral reject dumps	OB and mineral rejects are dumped eastern side of the lease area	OB and mineral rejects are dumped eastern side of the lease area	Backfilling will be carried out after complete extraction of Limestone
4c	Number of dumps within lease area and outside of lease area	1 within lease area	1 within lease area	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	OB and mineral rejects are dumped eastern side of the lease area	Backfilling will be carried out after complete extraction of Limestone
4e	Number of active and alive dumps.	one	one	nil
4f	Number of dead dumps.	Nil	Nil	nil
4g	Number of dumps established.	one	one	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	100m3 Retaining wall & garland drain is proposed during 2018-19	550m3 Retaining wall & garland drain is constructed below the OB dump during 2018-19	nil
4i	Length of Retaining wall or garland drain all along dumps	100m3 Retaining wall & garland drain is proposed during 2018-19	550m3 Retaining wall & garland drain is constructed below the OB dump during 2018-19	nil
4j	Number of settling ponds	one	one	nil
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	waste dump management is found 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 Limestone	Backfilling carried out after complete extraction of Limestone	Backfilling done after complete extraction of Limestone
5b	Area under backfilling of mined out area	1.96 Ha	1.96 Ha	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	na	nil

5d	Total area fully reclaimed and rehabilitated	NIL	NA	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	------	----	backfilling and reclamation FOUND TO BE 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).	SUBMITED	Submitted on time and correctly for the year 2018-19.	NIL
6b	Area available for rehabilitation (ha) .	Nil	Nil	NIL
6c	afforestation done (ha).	0.30 hec	0.30 hec	As per the proposal
6d	No. of saplings planted during the year	600 saplings	600 saplings	As per plan
6e	Cumulative no .of plants	---	30778 nos	NIL
6f	Any other method of rehabilitation	NIl	NA	No other method of rehabilitation
6g	Cost incurred on watch and care during the year	0.225 Lakhs	0.40 lakhs	as per the record
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	No waste land with in the lease area
6p	Compliance of environmental monitoring (core zone and buffer zone)	8 Air Stations, 5 Water stations	Complied as per proposal	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-------	PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks

7a	ROM Mineral dispatch or grade-wise sorting within lease area	1,199,689 T	346,308.66 T	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	NA	NIL
7d	Any beneficiation process at mines .	NIL	NA	ROM send toe factory
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Mineral consrevation fund to be fully satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NA	During initial stage already removed &Stacked &will be utilized for future
8b	Concurrent use or storage of topsoil	NIL	NA	No top soil generation during the yera
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps available OB	Separate dumps available OB	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste is dumped in the eastern side of the lease area	Waste is dumped in the eastern side of the lease area	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	Not at this stage mineral not fully exhasted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 nos plantation carried out in 0.30 hect	600 nos plantation carried out in 0.30 hect	NIL
8g	Survival rate	80%	80%	Found satisfactory
8h	Water sprinkling on roads to control airborne dust	---	Water sprinkler available on roads to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	----	Aesthetic beauty in and around mines area is found satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submited	Monthly returns submitted before 10th of every month. Annual Return already submitted for the year 2018-19	Given satisfactorily as per format
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Sendilkumar. K Geologist - Sumanta Das Manager- Sendilkumar. K	Mining Engineer - Sendilkumar. K Geologist - Sumanta Das Manager- Sendilkumar. K	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given AR	Found as given	NIL

9d	Scrutiny of Annual return on afforestation	Given	600 nos plantation carried out in 0.30 hect area with Survival	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Verified in the field	As per the returns
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive mine	production coist given	NIL
9h	Scrutiny of Annual return on fixed assets	Given	Found as prt the recods	NIL
9k	Scrutiny of Annual return on mining machineries	Givem	Rock breaker, Excavator & Tippers are used	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

Date :

(**S.THIRUNAVUKKARASU**)

Indian Bureau of Mines