

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

Mining Plan Modification REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-216/HYD

Mine code : 38APR11189

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Bhupendra Khorpia, Sri. Jagan Mohan Reddy, Geolog
Official with
Designation
- (iv) Date of Inspection : 31/12/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THUMMALAPENTA (114.372 HA)**
- (b) **Registration NO.** : **441**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : TUMMALAPENTA
- Taluka : KOLIMIGUNDLA MANDAL
- Post office : KOLIMIGUNDLA
- Pin Code : 518 12
- FAX No. : 08558-288821/59
- E-mail : utcl-apcw.agentmines@aditya
- Phone : 08558-288847/50
- (f) Police Station : TADIPATRI
- (g) First opening date : 14/11/2018
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
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
B wing, Ahura centre, 2nd
floor Mahakali caves
Road, Adheri (East) Mumbai-
40003. MUMBAI (SUBURBAN)
MAHARASHTRA
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 27/11/2007
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2019-20 - No proposal	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal in 2019-20	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	----	G1 - 98.112 Ha G2 - 16.25 Ha	Exploration proposed in the Modified Mining Plan to bring the G2 area into G1 scale of exploration.
1e	Balance reserve as on 01/04/20	-----	Proved Reserves as on 01/04/2020 is 18.66 million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc			Balance area of 16.25 Ha is proposed to explored under G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E910-E930 N110-1580	Ground preparation work carried out for developing the mining pit.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed to develop benches in OB and Mineral	Ground preparation work carried out. No OB and mineral benches developed.	
2c	Stripping ratio or ore to OB ratio	2019-20 - 1.0.25	Nil	
2d	Quantity of topsoil generation in m3	2019-20 - 82800 Te	2019-20 - Nil	

2e	Quantity of overburden generation in m3	2019-20 - 320000 Te	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Ground preparation work carried out to develop the mining pit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	Nil	
3b	Quantity of ROM mineral production proposed	2019-20 - 1280000 Te	2019-20 - 35000 Te	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	

3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in mineral benches	Drilling and blasting not carried out. Ground preparation work carried out to develop the mineral benches.
3k	Provision of mining machineries in mineral benches	Machinery proposed in mineral benches.	Excavator and dumpers used to carry out ground preparation work and shift the material.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Maximum height of 4m bench height is proposed	Ground preparation work carried out to develop the mineral benches.
3m	Total area covered under excavation/pits	14.90 Ha	7.19 Ha (including slab quarry pits)
3n	Ore to OB ratio for the pit/mine during the year.	2019-20 - 1:0.25	Nil
3o	Total area put in use under different heads at the end of year	29.20 Ha	10.073 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1100000 Te 2017-18 - 1160000 Te 2018-19 - 1220000 Te 2019-20 - 1280000 Te	2016-17 - Nil 2017-18 - Nil 2018-19 - 10000 Te 2019-20 - 35000 Te
3q	General remarks of inspecting officers on method of mining etc.		Ground preparation work carried out to clear the waste dumped from the old slab quarry.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Nil	
4b	Location of topsoil, OB and mineral reject dumps	E700-E900 N1800-N980	Nil	

4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Old slab quarry waste material dumped in the lease area.

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 proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	

5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

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).	To be submitted	Submitted as per rule.	
6b	Area available for rehabilitation (ha) .	No proposal for 2019-20	Nil	
6c	afforestation done (ha) .	2019-20 - 0.50 Ha	2019-20 - 0.80 Ha	
6d	No. of saplings planted during the year	2019-20 - 500Nos.	2019-20 - 520 Nos.	
6f	Any other method of rehabilitation	No proposal for 2019-20	Nil	
6g	Cost incurred on watch and care during the year	No proposal for 2019-20	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out Environmental monitoring in Core & Buffer Zone every quarter	Quarterly environmental monitoring carried out during 2019-20 and all the parameters are within the permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	2019-20 - 35000 Te	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal in 2019-20	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 Nos. saplings over 0.5 Ha in the year 2019-20.	520 Nos. saplings over 0.8 Ha in the year 2019-20.	
8g	Survival rate	---	90%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker is provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted in time.	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Sri. Arimavalavan Sanjay Jichkar Geologist - Sri.Srinivasan	Mining Engineer - Sri. Arimavalavan Manager - Sri. Sanjay Jichkar Geologist - Sri.Srinivasan	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area use for openpits, waste disposal, haulroad - 10.73 Ha	Broadly as per submissions.	
9d	Scrutiny of Annual return on afforestation	520 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price reported as Rs.170.19/-	1. Total overhead cost is not submitted in Part-III, Sl.No.5. 2. In cost per tonne, depreciation is not matching with the total depreciation submitted in Part-IIA, Sl.No.1. Advised to correct the annual returns since it has been referred back by the MMS division.	Annual returns has been referred back to the lessee by MMS division.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.978524226/-	---	
9k	Scrutiny of Annual return on mining machineries	Shovel - 1 Nos. Dumpers - 3 Nos.	Shovel - 1 Nos. Dumpers - 3 Nos.	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on	
MCDR17	Rule 31(1)	04/02/2021	24/02/2021			

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines