

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-215/HYD

Mine code : 38APR11188

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri.Rajaprathaban, Manager & Sri. Srinivasan, Geologis
Official with
Designation
- (iv) Date of Inspection : 16-SEP-21
- (v) Prev.inspection date : 16-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THUMMALAPENTA(90.52 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-NOV-18
- (h) Weekly day of rest : SUN
2. Address for : Bhogasamudram Village
correspondance : Tadipatri Mandal
Anantapur
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 :

Owner : Kailash Chandra Jhanwar
 AHURA CENTRE,A WING,1ST
 FLOOR MAHAKALI CAVES
 ROAD,ANDHERI(E) MUMBAI
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone: 08558-288847/50
 FAX : 08558-288821/59

Agent : V.Ganeshan
 Bhogasamudram Village
 Tadipatri Mandal ANANTAPUR
 ANDHRA PRADESH
 Phone: 08558-288847
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18-JUL-08
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	23-DEC-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal in 2020-21. 2021-22 - 02 Nos.	2020-21 - Nil 2021-22 - 02 Nos. core boreholes drilled	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Drilling agency: Synergy Geotech Pvt. Ltd., Nagpur	
1d	Balance area to be explored to bring Geological axis in 1 or 2	2020-21- Nil 2021-22 - 02 Nos.	Drilled 02 Nos. core boreholes in the year 2021-22.	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2021 - 14.64 million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease is converted under G1 level of exploration by drilling 02 Nos. boreholes in the year 2021-22. Analysis work is in progress.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 314-760 N 870-1365	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed to remove the top soil seperately.	One bench of around 1m height has been developed in top soil.	
2c	Stripping ratio or ore to OB ratio	1:0.3	Nil	

2d	Quantity of topsoil generation in m3	2020-21 - 16875 cu.m	2020-21 - Nil	Topsoil is dozed along the mine pit to act as protective bund.
2e	Quantity of overburden generation in m3	2020-21 - 203125 cu.m	Nil	There will be no generation of OB as mineral is found to occur just below the top soil horizon of 1m thick.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No OB is generated in the proposed mining area and the topsoil is dozed along the mine pit to act as protective bund.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21- 1300000 Te	2020-21 - 52000 Te	Lessee has reported that less production is due covid'19 pandemic situation and less market demand.
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 is proposed in the mineral benches.	Wagon drill being used for drilling with a blast hole dia of 150 mm & depth of 9 m, spacing of 6 meters and burden of 4 meters. Blasting with slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator - 2 Dumper (55 tonnes) - 4 Rock breaker - 1 DTH Drill - 1 Dozer - 1 Water tanker - 1	Hydraulic Excavator - 1 No. Dumper - 3 No. Drill machine - 1 No.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 9 meters	Bench height is being maintained as 9 m. Digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	12 Ha.	1.76 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.3	Nil

3o	Total area put in use under different heads at the end of year	Excavated Pit - 12.00 Ha Roads - 1.5 Ha Infrastructure - 0.10 Ha Greenbelt - 3.15 Ha OB dump - 9.10Ha. Min. storage - 0.70 Ha. Others - 0.50 Ha	Excavated Pit - 1.76 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-2017 : 1100000 Te 2017-18 : 1150000 Te 2018- 19 : 1198000 Te 2019-20 : 1230000 Te 2020-21 : 1300000 Te	2016-2017 : Nil 2017-18 : Nil 2018- 19 : 10000 Te 2019-20 : 32000 Te 2020-21 : 52000 Te
3q	General remarks of inspecting officers on method of mining etc.		Mining pit development is in initial stage. Mechanised method of mining has been adopted.

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 for OB, Top soil & mineral reject for 2020-21.	No OB, top soil and mineral rejects dump exists.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal for OB, Top soil & mineral reject for 2020-21.	No OB, top soil and mineral rejects dump exists.	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	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			No OB is generated in the mining area and the topsoil is dozed along the mine pit to act as protective bund and partly utilised for plantation.

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 for 2020-21.	Nil	
5b	Area under backfilling of mined out area	No proposal for 2020-21.	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal for 2020-21.	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal for 2020-21.	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 2020-21.	Nil	
6c	afforestation done (ha).	No proposal for 2020-21.	0.6 Ha.	
6d	No. of saplings planted during the year	2020-21 - 500 Nos.	2020-21 - 1000 Nos.	
6e	Cumulative no .of plants	No proposal	Till 2020-21 - 1610 Nos.	
6f	Any other method of rehabilitation	No proposal for 2020-21.	Nil	
6g	Cost incurred on watch and care during the year	No proposal for 2020-21.	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for 2020-21.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for 2020-21.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal for 2020-21.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for 2020-21.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal for 2020-21.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal for 2020-21.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal for 2020-21.	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal for 2020-21.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2020-21 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.	52000 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)	Topsoil to be utilised for plantation	Topsoil dozed and made as protective bund around the mining pit and utilised for plantation in the 7.5 m buffer zone.	
8b	Concurrent use or storage of topsoil	Topsoil is proposed to use for greenbelt development.	Topsoil dozed and made as protective bund around the mining pit and utilised for plantation in the 7.5 m buffer zone.	
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)	No proposal	Nil	
8g	Survival rate	No proposal	80%	
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	Annual returns and monthly returns to be submitted as per rule.	Annual and monthly returns submitted in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - Sri. Rajaprathaban. R Geologist - Sri.Srinivasan	Manager & Mining Engineer - Sri. Rajaprathaban. R Geologist - Sri.Srinivasan	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under opencast workings - 1.76 Ha.	Same as submitted.	
9d	Scrutiny of Annual return on afforestation	1000 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	Cost of production is reported as Rs.263.60/-	Rs.263.60/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.9438315/-	Fixed assest could not be verified.
9k	Scrutiny of Annual return on mining machineries	Shovel (hydraulic)-1 Dumper - 4 Drill machine - 1 Water Tanker - 1	Shovel (hydraulic)-1 Dumper - 3 Water Tanker - 1

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

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines