

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

**MCDR inspection REPORT  
Hyderabad regional office**

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

**Mine code :** 38APR11189

- (i) Name of the Inspecting : **C\$10** ) **Ch.Suseela**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : **SRI .K.N.SIDDA REDDY, AGENT(MINES)**  
Official with  
Designation
- (iv) Date of Inspection : 10-MAR-23
- (v) Prev.inspection date : 06-JAN-22

**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-NOV-18**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **Shri K.C.Jhanwar, Nominated Owner,**  
**correspondance** **M/s Ultratech Cement Ltd., 'B' Wing, Ahura Centre**  
**2 Floor, Mahakali Caves Rd, Andheri (East), MUMBAI**
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 : K.C.JHANWAR  
 M/S Ultra Tech Cement Ltd.  
 A Wing, Ahura Centre, I  
 Floor, Mahakali Caves Road,  
 Andheri (E) MUM MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone: 08558-288847  
 FAX :

Agent : K.N.Sidda Reddy  
 M/s Ultra Tech Cement Ltd.  
 Bhogasamudram (V&Po)  
 Tadipatri (M), Anantapur  
 District ANANTAPUR ANDHRA  
 PRADESH  
 Phone: 7039023088  
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27-NOV-07
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	26-FEB-21

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 No. of core bore holes were proposed during the year 2021-22	5 No. of core bore holes were drilled with a cumulative depth of 384.50 m	The entire lease area has been explored under G1 scale
1b	Exploration over lease area for geological axis 1 or 2	16.25 ha of G2 area is proposed to convert into G1 scale	16.25 ha of G2 area has been converted into G1 scale	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	M/s Synergy Geotech pvt.Ltd, Nagpur  Expenditure incurred : 7.08 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	16.25 ha of G2 area is proposed to convert into G1 scale	16.25 ha of G2 area has been converted into G1 scale	
1e	Balance reserve as on 01/04/20	Balance Reserve as on 1.4.2022-17.308 Million Tonnes	Balance Reserve as on 1.4.2022- 18.56 Million Tonnes	The actual production is less than the proposed, hence the balance reserve is more than the estimated.

1f	General remarks of inspecting officers on geology, exploration etc			The Cuddapah Sedimentary Basin extends over a significant part of the southern part of Andhra Pradesh State, Southern India. Proterozoic carbonate rocks in the basin are constituted as three main units - the Vempalle dolomite, The Narji and Koilkuntla Limestone. The limestone deposits are located towards North & NW part of Tadipatri Town from part of Kurnool Group. The Limestone deposit is a simple Tabular undisturbed stratigraphic horizon of Kurnool Group.
----	--	--	--	---

---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In between Co- Ordinates N 1664462.8302 to 1664547.1536 and E 181815.2985 to 181891.5615	As per the proposals	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil-01 Mineral Benches-03	Top Soil-NIL Mineral Benches-01	Benches are still under development.

---

2c	Stripping ratio or ore to OB ratio	No proposal	NIL	
2d	Quantity of topsoil generation in m3	103205 m3	942 m3	The top soil generation is less than the proposed as the lessee has utilised the flaggy limestone heaps which were lying on the ground prior to the grant of mining lease for blending with the High grade Limestone of the main lease.
2e	Quantity of overburden generation in m3	2021-22 : 213510 m3	2021-22 : 2400 m3	The overburden is less than the proposed as the lessee has utilised the flaggy limestone heaps which were lying on the ground prior to the grant of mining lease for blending with the High grade Limestone of the main lease.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	The development and production is being done through fully mechanised method .

---

**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	

---

3b	Quantity of ROM mineral production proposed	52,000 MT	50,500 MT	
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.	No proposal	NIL	
3f	Quantity of sub grade mineral generation.	No proposal	NIL	
3g	Grade of sub grade mineral generation	No proposal	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL	Total ROM is being fed to the crusher.
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	Dia.: 60.0 mm Burden: 4.0 m Spacing 6.0 m Depth: 7.0 m Explosive: ANFO	No drilling and blasting have been carried out during F.Y. 2021-22. Rock breaker is used for production.	
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator--1, Dumper/Tippers --3, Rock Breaker--1, DTH Drill--1, Dozer--1	Loading & Transportation is being carried out by Excavator and Tipper/ Dumper Combination	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, Only one bench is developed	
3m	Total area covered under excavation/pits	8.21 ha	8.13 ha	
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL	
3o	Total area put in use under different heads at the end of year	12.768 ha	8.150 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-- 1220000 MT, 2019-20-- 1280000 MT,2020-21-- 1300000 MT, 2021-22--52000 MT, 2022-23-- 52000 MT	2018-19--10000 MT, 2019- 20--35000 MT,2020-21-- 51000 MT, 2021-22--50500 MT, 2022-23--50004 MT	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining is being carried out through the opencast method with fully mechanized means.

---

Solid Waste Management - Dumping:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal has been given in the approved document for separate dumping and stacking of Topsoil/OB and Mineral/Ore in the earmarked locations within lease area in between local co-ordinates Topsoil/OB : E181850.258 to 182000.854 and N1664980.246 to 1665400.589	No dumping and stacking have been done during plan period. The Quantity of top soil generated has been utilised for plantation.
4b	Location of topsoil, OB and mineral reject dumps	Topsoil/OB : E181850.258 to 182000.854 and N1664980.246 to 1665400.589	NIL
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	NIL
4e	Number of active and alive dumps.	One dump	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.	Garland drain is proposed	NIL

4i	Length of Retaining wall or garland drain all along dumps	Garland drain with 430 m length	NIL	
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	No waste dump is formed as the quantity of waste generated is being utilised for blending.

#### 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	Pit is not matured for reclamation
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 under development stage . Hence the reclamation does not arise at this stage.

#### 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).	Annual Report on PMCP compliance is to be submitted within time frame	Annual Report on PMCP compliance has been submitted within time frame. Information has been cross verified during inspection and found in order.
6b	Area available for rehabilitation (ha) .	No proposal	NIL
6c	afforestation done (ha).	No Proposal	NIL
6d	No. of saplings planted during the year	No Proposal	NIL
6e	Cumulative no .of plants	No Proposal	NIL
6f	Any other method of rehabilitation	No Proposal	NIL
6g	Cost incurred on watch and care during the year	No Proposal	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 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	750 Nos.	1050 Nos	
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	By Plantation	By Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for quarterly monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	Proposal has been given in the approved document for plantation of 750 nos. of saplings during the year 2021-22. Against that, the lessee has achieved 1050 Nos of plantation during the year 2021-22.
----	---	-------	-------	--

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	ROM mineral is being directly dispatched to the crusher and no grade wise sorting has been done.	
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	_____	_____	The Lessee is utilising the flaggy Limestone for blending with the high grade Limestone of the main lease, thereby conserving the low grade mineral.

---

Environment:

---

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal has been given in the approved document for separate removal of 103205 CuM topsoil and stacking in the earmarked location within lease area .	The lessee has achieved a quantity of 942 m3 top soil during the year 2021-22 and the same has been utilised for plantation purpose.	
8b	Concurrent use or storage of topsoil	Proposed temporary stacking of the top soil in NE side of ML	Utilised for plantation simultaneously	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, waste dump is proposed in NE side of ML	No dumping and stacking have been done during plan period. The quantity of waste generated is being utilised for blending.	
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)	Existing Plantation-2500 2021-22--750	Existing Plantation-2220 2021-22--1050	

8g	Survival rate	88 %	90%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Afforestation is being done in 7.5m buffer zone.

---

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February, 2023 A.R. Submitted up to F.Y. 2021-22	M.R. Submitted up to February, 2023 A.R. Submitted up to F.Y. 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Sanjay Jichkar Mining Engineer: Shri .Sanjay Jichkar Geologist: Shri S. Srinivasan	Manager: Shri Sanjay Jichkar Mining Engineer: Shri .Sanjay Jichkar Geologist: Shri S. Srinivasan	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 8.130 Ha. Waste/reject- NIL Others- 0.020 Ha.	Pit- 8.130 Ha. Waste/reject- NIL Others- 0.020 Ha.	

---

9d	Scrutiny of Annual return on afforestation	Within lease area: 1050 nos. with 90% survival rate  Outside lease area: NIL	Within lease area: 1050 nos. with 90% survival rate  Outside lease area: NIL
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	Closing Stock : NIL  ROM: NIL  Graded Ore: NIL	Closing Stock : NIL  ROM: NIL  Graded Ore: NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: NIL Cost of Production: Rs. 284.76 Per Metric Tonne Ex-Mine Price: 284.76 Per Metric Tonne	Sale value: NIL Cost of Production: Rs. 284.76 Per Metric Tonne Ex-Mine Price: 284.76 Per Metric Tonne
9h	Scrutiny of Annual return on fixed assets	Rs.10522085/-	Rs.10522085/-
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 2.1 Cu.m--1 Dumper 55 Tonne--2 Dozer--302.0 HP--1 Water Tanker, 16000 lt--1	Shovel (Hydraulic) 2.1 Cu.m--1 Dumper 55 Tonne--2 Dozer--302.0 HP--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 :**

**(Ch.Suseela)**

Indian Bureau of Mines