

**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 Officer and ID No. : **K007**) **SHAIVAL KARTIKEYA**
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Shri K. S. N. Reddy, Agent (Mines)
- (iv) Date of Inspection : 06-JAN-22
- (v) Prev.inspection date : 15-MAR-20

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 correspondence :
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-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	F.Y. 2021-22: 05 nos. core boreholes	F.Y. 2021-22: 05 nos. of core boreholes with cumulative depth of 384.50 meters have been drilled.	The entire lease area has been explored under G1 level.
1b	Exploration over lease area for geological axis 1 or 2	16.25 Ha. G2 area will be converted into G1 Level.	16.25 Ha. G2 area has been converted in to G1 Level.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	M/s Synergy Geotech Private Limited, Nagpur Expenditure: Rs. 7.08 Lakhs.	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	16.25 Ha. G2 area will be converted into G1 Level.	16.25 Ha. G2 area has been converted in to G1 Level.	-do-
1e	Balance reserve as on 01/04/20	Balance Reserve as on 01/04/2021 Under (111): 17.36 Million Tonnes	Balance Reserve as on 01/04/2021 Under (111): 18.609 Million Tonnes	Since the lessee has produced less its proposed quantity of ROM, therefore 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 by 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.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In between local co-ordinates N1470 to N1960 and E0690 to E1045	In between local co-ordinates N1470 to N1960 and E0690 to E1045	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil: 01 no. Mineral/Ore: 03 nos.	Topsoil: NIL Mineral/Ore: NIL	51000.00 Metric Tonnes of ROM has been produced during ground preparation.
2c	Stripping ratio or ore to OB ratio	No proposal.	NIL	-

2d	Quantity of topsoil generation in m3	42000.00 CuM	NIL topsoil has been generated during F.Y. 2021-22	-
2e	Quantity of overburden generation in m3	No proposal.	NIL	-
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 mechanized means.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 no.	No pit has been developed.	-
3b	Quantity of ROM mineral production proposed	1300000.00 Metric Tonnes	51000.00 Metric Tonnes	Less production due to less of 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.	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	-

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. 2020-21.	-
3k	Provision of mining machineries in mineral benches	1. Excavator 03 nos. with 2.2 CuM bucket capacity 2. Tippers 16 nos. with 10 Tonnes capacity 3. Rock Breaker 01 no. 4. Crawler Mounted Drill 01 no. with 60 mm bit 5. Bull Dozer 01 no. with 320 HP capacity 6. Explosive Van 01 no. with 2.50 Tonnes capacity 7. Water Tanker 02 nos. with 10 KL capacity 8. Jeep 02 nos.	1. Shovel 01 no. with 2.1 CuM bucket capacity 2. Dumper 01 no. with 32.60 Tonnes capacity 3. Dozer 01 no. with 302 HP capacity 4. Water Tanker 01 no. with 12 KL capacity	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil: 0.5 to 1.0 m Mineral/Ore: 6.0 m	No benches have been made as the ore/mineral has been produced during ground preparation.	-

3m	Total area covered under excavation/pits	14.90 Ha. up to end of F.Y. 2020-21	7.530 Ha. up to end of F.Y. 2020-21	-
3n	Ore to OB ratio for the pit/mine during the year.	No proposal.	NIL	-
3o	Total area put in use under different heads at the end of year	Pit- 14.90 Ha. Waste/reject- 8.10 Ha. Others- 6.20 Ha. Up to end of F.Y. 2020-21	Pit- 7.530 Ha. Waste/reject- NIL Others- 0.020 Ha. Up to end of F.Y. 2020-21	-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2016-17: 1100000.00 Metric Tonnes Yr. 2017-18: 1160000.00 Metric Tonnes Yr. 2018-19: 1220000.00 Metric Tonnes Yr. 2019-20: 1280000.00 Metric Tonnes Yr. 2020-21: 1300000.00 Metric Tonnes	Yr. 2016-17: NIL Yr. 2017-18: NIL Yr. 2018-19: 10000.00 Metric Tonnes Yr. 2019-20: 35000.00 Metric Tonnes Yr. 2020-21: 51000.00 Metric Tonnes	As per the Mine Development and Production Agreement, first two years NIL Production has been given.
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
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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	No dumping and stacking have been done during plan period.	-
		Topsoil/OB: N1460 to N1960 and E0690 to E1050		
		Mineral/Ore: N1270 to N1400 and E1060 to E1210		
4b	Location of topsoil, OB and mineral reject dumps	-do-	-do-	-
4c	Number of dumps within lease area and outside of lease area	Topsoil/OB: 01 no. Mineral/Ore: 01 no.	Topsoil/OB: NIL Mineral/Ore: NIL	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed temporary dumping within ultimate pit limit.	No dumps have been made during plan period.	-
4e	Number of active and alive dumps.	01 no.	None	-
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 overburden/topsoil and waste have been generated during plan period.

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 during F.Y. 2020-21.	NIL, Area not matured for the reclamation and the rehabilitation.	-
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)	42000.00 CuM of generated topsoil will be stored in between local co-ordinates N1460 to N1960 and E0690 to E1050 and same will be utilized for plantation.	NIL topsoil has been produced during plan period.	-
5d	Total area fully reclaimed and rehabilitated	No proposal.	NIL	-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL
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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).	Submitted before due date.	Information has been cross verified during inspection.	Shortfall in the plantation has been pointed out.
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	500 nos.	1600 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Mentioned	0.50 Ha.	-
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 2500 nos. of saplings during plan period. Whereas, 2220 nos. of saplings have been planted over 1.44 Ha. Violation for less achievement of the plantation has been pointed out.
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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			NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposal has been given in the approved document for separate removal of 42000.00 CuM topsoil and stacking in the earmarked location within lease area in between local co-ordinates N1460 to N1960 and E0690 to E1050.	No topsoil has been generated during plan period.	-
8b	Concurrent use or storage of topsoil	Topsoil will be utilized for plantation purpose.	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 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	No dumping and stacking have been done during plan period.	-
		Topsoil/OB: N1460 to N1960 and E0690 to E1050		
		Mineral/Ore: N1270 to N1400 and E1060 to E1210		

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. of sapling will be planted every year.	1600 nos. of saplings have been planted over 0.5 Ha. area.	-
8g	Survival rate	Not mentioned	Approx 80%	-
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			NIL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to December 2021 A.R. Submitted up to F.Y. 2020-21	M.R. Submitted up to December 2021 A.R. Submitted up to F.Y. 2020-21	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Sanjay Jichkar Mining Engineer: Shri Arimavalavan N. Geologist: Shri S. Srinivasan	Manager: Shri Sanjay Jichkar Mining Engineer: Shri Arimavalavan N. Geologist: Shri S. Srinivasan	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 7.530 Ha. Waste/reject- NIL Others- 0.020 Ha.	Pit- 7.530 Ha. Waste/reject- NIL Others- 0.020 Ha.	NIL
9d	Scrutiny of Annual return on afforestation	Within lease area: 1600 nos. with 80% survival rate Outside lease area: NIL	Within lease area: 1600 nos. with 80% survival rate Outside lease area: NIL	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject: NIL Grade: NIL	Mineral reject: NIL Grade: NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore: NIL	Closing Stock: ROM: NIL Graded Ore: NIL	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: NIL Cost of Production: Rs. 246.02 Per Metric Tonne Ex-Mine Price: 246.02 Per Metric Tonne	Sale value: NIL Cost of Production: Rs. 246.02 Per Metric Tonne Ex-Mine Price: 246.02 Per Metric Tonne	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 9256808/-	Rs. 9256808/-	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the field logbooks.	NIL

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 :

(SHAIVAL KARTIKEYA)

Indian Bureau of Mines