

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

Review and updation of Mining Plan 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.Bhupendar Khorpia, Manager, Sri. S.Srinivasan, QP
Official with
Designation
- (iv) Date of Inspection : 01/10/2020
- (v) Prev.inspection date :

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 : 14/11/2018
- (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 Plan/Scheme of Mining : Fresh under rule 22 MCR1960 18/07/2008

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|---|
| 1a | Backlog of previous year | 2019-20 - 02 Nos. Total 08 Nos. boreholes proposed for the plan period from 2016-17 to 2020-21. | 2017-18 - 19 Nos. 2018-19 - 04 Nos. Total 23 boreholes drilled in the lease. | Around 86 Ha area has been explored in G1 category. |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal in 2019-20 | Around 86 Ha area has been explored in G1 category. | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No proposal | Drilling: 10,67,450 Analysis: 53,200 (Analysis done APCW own NABL accredited laboratory) | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | 2019-20 - 02 Nos. | Around 5 Ha to be explored in G1 level. | |
| 1e | Balance reserve as on 01/04/20 | ---- | 111- 14.15 million Tonnes 121 & 122 - 0.49 million Tonnes Total Reserves as on 01/04/2020 - 14.64 million Tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Further exploration (02-borehole) to be drilled to bring the entire area under G1 level of exploration. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---------|
| 2a | Location of development w.r.t.lease area | E 327-753 N873-1347 | 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. | |

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| 2c | Stripping ratio or ore to OB ratio | 1:0.03 | Nil | There will be no generation of OB as mineral is found to occur just below the top soil horizon of around 1m thick. |
| 2d | Quantity of topsoil generation in m3 | 126000 Te | Nil | Topsoil is dozed along the mine pit to act as protective bund. |
| 2e | Quantity of overburden generation in m3 | 307500 Te | 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 | 2019-20 - 1230000 Te | 34000 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 | |

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| 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 | Drilling and blasting carried out in the mineral bench. |
| 3k | Provision of mining machineries in mineral benches | Hydraulic Excavator - 2 Tipper (10tonnes) - 4 Rock breaker - 1 DTH Dill - 1 Dozer - 1 Water tanker - 2 | Hydraulic Excavator - 1 Dumper - 3 |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | No proposal | Digging height of the excavator is compatible for proposed bench height fo 6m. |
| 3m | Total area covered under excavation/pits | 12 Ha. | 1.76 Ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.05 | 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 |

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| 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 : Nil (Till Sept'20) | Lessee has reported that production was not carried out for the year 2020-21(till Sept'20) due covid'19 pandemic situation and less market demand. The proposed production will be done from the month of Nov'20. |
| 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 2019-20. | 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 2019-20. | 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 | |

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| 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. |

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 2019-20 | Nil | |
| 5b | Area under backfilling of mined out area | No proposal for 2019-20 | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal for 2019-20 | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | No proposal for 2019-20 | 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. | |

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|----|--|-------------------------|-------------------------|
| 6b | Area available for rehabilitation (ha) . | No proposal for 2019-20 | Nil |
| 6c | afforestation done (ha). | No proposal for 2019-20 | 0.5 Ha |
| 6d | No. of saplings planted during the year | 500 Nos. | 510 Nos. |
| 6e | Cumulative no .of plants | No proposal | Till 2019-20 - 610 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 for 2019-20 | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal for 2019-20 | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | No proposal for 2019-20 | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal for 2019-20 | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No proposal for 2019-20 | Nil |

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|----|---|---|---|--|
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | No proposal for 2019-20 | Nil | |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | No proposal for 2019-20 | Nil | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No proposal for 2019-20 | 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 the year 2019-20. | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Environment monitoring has been carried out during 2019-20 and all the parameters are within the permitted limits. |

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. | 34000 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 | |

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| 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) | 126000 Te | Nil | Topsoil is dozed along the mine pit to act as protective bund. |
| 8b | Concurrent use or storage of topsoil | Topsoil is propoed to use for greenblet development. | Topsoil is dozed along the mine pit to act as protective bund. | |
| 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 | |

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|----|--|------------------------------------|--|---|
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | No proposal | Nil | |
| 8g | Survival rate | No proposal | 90% | |
| 8h | Water sprinkling on roads to control airborne dust | Water Tankers 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 | Mining Engineer -1 Geologist -1 Manager - 1 | Mining Engineer - Sri. Rajaprathaban.R Manager - Sri. L.Madhusudan Reddy Geologist - Not appointed | Violation letter issued for non appointment of statutory Geologist under MCDR 2017. |
| 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 | 510 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 | No mineral reject generated in the mine. | |

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| 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 | Rs.170.19/- | Rs.170.19/- |
| 9h | Scrutiny of Annual return on fixed assets | Rs.978524226/- | ----- |
| 9k | Scrutiny of Annual return on mining machineries | Shovel (hydraulic)-1 Dumper - 3 | Shovel (hydraulic)-1 Dumper - 3 |

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 55(1) (3) | 05/11/2020 | | | | |

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines