

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

**Review and updation of Mining Plan REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KSN/LST-27/HYD

**Mine code :** 38APR10030

- (i) Name of the Inspecting : **M029** ) **MADHU SUDHAN YADAV M**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. Bangaru Babu Ryali, Agent & Sri.Ghanshyam P Haja  
Official with  
Designation
- (iv) Date of Inspection : 04-OCT-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BUDAWADA LIMESTONE MINES**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **KRISHNA**
- Village : **BUDAWADA**
- Taluka : **JAGGAYYAPET**
- Post office : **BUDAWADA**
- Pin Code : **521175**
- FAX No. : **08654285010**
- E-mail : **ajit.oswal@adityabirla.com**
- Phone : **08654285011**
- (f) **Police Station** : **CHILLAKALLU**
- (g) **First opening date** : **07-MAR-12**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **UltraTech Cement Limited, Balaji Cement Works.**  
**correspondance** : **BUDAWADA VILLAGE, JAGGAYYAPET MANDAL**  
: **KRISHNA DISTRICT**
3. (a) **Lease Number** : **APR3264**
- (b) **Lease area** : **629.22**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **05-MAR-42**
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 : Sri Kailash Chandra Jhanwar  
 B Wing Ahura Centre,2nd  
 floor, Mahakali  
 Road,Andheri (East)Mumbai  
 KRISHNA ANDHRA PRADESH  
 Phone:  
 FAX :

Agent : Sri.K.N.Sidda Reddy  
 Ultra Tech Cement Limited,  
 Budawada Lime Stone mine  
 Jaggayyapeta,Krishna.  
 KRISHNA ANDHRA PRADESH  
 Phone: +7039023088  
 FAX : 0865-285010

## Mining Engineer

Name : Shri Vasanth Kumar V.,Full Time  
 Qualification : B.E.(Mining)  
 Appointment/ : 07-MAR-12  
 Termination date

## Manager

Name : MANOJ BEHARI  
 Qualification : B.TECH MINING  
 Appointment/ : 07-MAR-12  
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	28-JUN-13
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	28-APR-17

## 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	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Resources as on 01/04/2021 - 580.24 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The lessee has carried out G1 level of exploration in G1 level as per the statute. However reserves and resources are re-estimated based on the exploration carried out recently in 2018-19 and submitted in the Review of Mining Plan.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Eastern and Northern Side of existing pit.	Work done within the proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed to develop	Mineral benches developed as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.005	1:0.008	Intercalated waste is considered as overburden during proposal.
2d	Quantity of topsoil generation in m3	2020-21 - 5997 cu.m 2021-22 - 4995 cu.m	2020-21 - Nil 2021-22 - Nil	Topsoil was generated in the earlier stage of the mine development. Presently no topsoil found in the mining area.
2e	Quantity of overburden generation in m3	2020-21 -11994 cu.m (Intercalated waste) 2021-22 - 14975 cu.m (Intercalated waste)	2020-21 - 127276 cu.m (Intercalated waste) 2021-22 - 68566 cu.m (Intercalated waste)	No overburden in the mining area. Intercalated waste is mentioned as overburden during the proposal.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No overburden is present in the mining area. Intercalated waste/inter burden soil is encountered as pockets in the mineralised zone.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of mineral production proposed	2020-21 - 6000135 Te 2021-22 - 6000023 Te	2020-21 - 3493730 Te 2021-22- 1735537 Te (Till Sept '21)	
3c	Recovery of sailable/usable mineral from ROM production	98%	95%	

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.	2020-21 - 24040 Te 2021-22 - 18006 Te	2020-21 - Nil 2021-22 - Nil	No sub grade generated. Entire mineral is consumed for cement plant.
3g	Grade of sub grade mineral generation	SiO <sub>2</sub> :18.52 Fe <sub>2</sub> O <sub>3</sub> : 4.92 Al <sub>2</sub> O <sub>3</sub> : 5.10, CaO : 36.25, MgO : 1.22	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 the mineral benches.	Duirng inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 163 mm & depth of 9 m, spacing of 5 meters and burden of 4 meters. Blasting with slurry explosives with NONELS as initiating system.	

3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, It was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
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	During inspection it was noticed that the bench height is being maintained between 9 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	67.96 Ha till 2022-23	49.606 Ha till 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1:0.005	1:0.008
3o	Total area put in use under different heads at the end of year	90.68 Ha till 2022-23.	77.326 Ha till 2020-21.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 : 60,00,625 tonnes 2017-18 : 60,00,145 tonnes 2018-19 : 60,00,303 tonnes 2019-20 : 60,00,044 tonnes 2020-21 : 6000135 tonnes 2021-22 : 6000023 tonnes	2016-17 : 15,02,490 tonnes 2017-18 : 27,02,971 tonnes 2018-19 : 37,37,262 tonnes 2019-20 : 34,75,553 tonnes 2020-21 : 3493730 tonnes 2021-22 : 123420 tonnes (till Sept'21)

3q General remarks of inspecting officers on method of mining etc.

Mining is carried out by fully mechanised method by deploying HEMM.

### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperaed dumping is proposed for intercalated waste	Seperate intercalated waste dump is maintained.	
4b	Location of topsoil, OB and mineral reject dumps	Intercalated waste dump is proposed at N1864997-1865063 & N399129-399202	Intercalated waste dump is developed and maintained in the proposed co-ordinates	
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area	One dump within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
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 for the year 2020-21	Retaining wall constructed along the periphery of the dump	
4i	Length of Retaining wall or garland drain all along dumps	No proposal during the year 2020-21	Around 540 meters of retaining wall constructed	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	Intercalated waste material generate during mining operations is being dumped in the northern part of the lease.
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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.

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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).	To be submitted	Submitted	

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6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	2020-21 - 1.2 Ha	2020-21 - 1.2 Ha
6d	No. of saplings planted during the year	2020-21 - 1800 Nos.	2020-21 - 1800 Nos.
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 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)	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.

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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	Nil	

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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.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal of topsoil and utilisation proposed	No topsoil generated during the year 2020-21 .	
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	

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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)	It was proposed to plant 1800 Nos. of sapling at 1.2 Ha	Planted 1800 Nos. of saplings at an arear of 1.2 Ha	
8g	Survival rate	90%	85%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust supression.	Water tankers provided for dust suppression in the mining area.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted as per rule	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. Manoj Bihari Mining Engineer - Sri. Dasari Suresh Babu Geologist - Ghanshyam P Hajare	Mining Engineer & Geologist working as per submission.	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working (O/C) = 49.606 Ha 2.occupied by plant, building, residential, roads & welfare buildings =7.34 Ha 3. other purpose( plantation and topsoil dump) = 17.51 Ha	Same as submitted
9d	Scrutiny of Annual return on afforestation	1800 Nos.	Broadly as per submission.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No proposal	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production reported as Rs.286.01/-	Rs. 286.01/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.7674086958/ -	Fixed assest could not be verified.

9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) - 5 Nos. Dumper - 55 Tonnes Dozer - 2 Nos. Water Tanker - 3 Nos. Explosive Van - 2 Nos. Rock Drill - 3 Nos.	All proposed machineries found in the mining area.
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**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