

**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-122/HYD

**Mine code :** 38APR11036

- (i) Name of the Inspecting : **25** ) **SHRI IBRAHIM SARIF**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri jayavelu, Agent(Mines) and Sri p jagan Mohan Redd  
Official with  
Designation
- (iv) Date of Inspection : 07/11/2019
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TUMMALAPENTA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : ANDHRA PRADESH  
District : KURNOOL  
Village : TUMMALAPENTA  
Taluka : KOLIMIGUNDLA  
Post office : TUMMALAPENTA  
Pin Code :  
FAX No. : 08558-74480/78703  
E-mail : NIL  
Phone : 08558-78712-78701
- (f) Police Station : TADIPATRI
- (g) First opening date : 02/07/1997
- (h) Weekly day of rest : SUN
2. Address for : M/S ULTRATECH CEMCO LTD.  
correspondance : TUMMALAPENTA VILLAGE  
KURNOOL DISTRICT.
3. (a) Lease Number : APR1276
- (b) Lease area : 844.94
- (c) Period of lease : 20
- (d) Date of Expiry : 27/11/2015
4. Mineral worked : SHALE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : ULTRATECH CEMCI LTD.  
 TUMMALAPENTA VILLAGE  
 KURNOOL DISTRICT KURNOOL  
 ANDHRA PRADESH  
 Phone:  
 FAX :

Owner : V.T.MOORTHY  
 ULTRA TECH CEMENT LTD.  
 BHOGASAMUDRAM POST  
 TADIPATRI (M), ANATAPUR.  
 KURNOOL ANDHRA PRADESH  
 Phone: 08558- 288847 /  
 FAX : 08558-288821 /

Agent : A.K.PILLAI  
 ULTRA TECH CEMENT LTD, APCW  
 PO, BHOGASAMUDRAM,  
 MANDAL:TADIPATRI, ANANTAPURA  
 M. KURNOOL ANDHRA PRADESH  
 Phone: 08558- 288847/ 288850  
 FAX : 08558-28821/288

Mining Engineer  
 Name : S.R.BOSE, Full Time  
 Qualification : B.E. MINING.  
 Appointment/ : 15/12/2007  
 Termination date

Geologist  
 Name : A.NAGA RAJESH, Full Time  
 Qualification : M.SC (GEO)  
 Appointment/ : 28/05/2008  
 Termination date

Manager  
 Name : T.V.SRINIVASAN  
 Qualification : M.SC. GEOLOGY, 1ST CLASS MMC  
 Appointment/ : 10/01/2004  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26/10/1994
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04/02/2000
		Modif.of approved Mining Plan	18/10/2001
		Mining Scheme rule 12 MCDR1988	21/06/2004
		Modif.approved Mining Scheme	18/08/2006
		Mining Scheme rule 12 MCDR1988	18/08/2009
		Mining Scheme rule 12 MCDR1988	02/12/2014
		MP modif under 17(3) MCR 2016	11/11/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2018-19---14 core bore holes to be drilled with 420 meterage	2018-19---34 core bore holes drilled with 1055 meterage	-
1b	Exploration over lease area for geological axis 1 or 2	Exploration to be carried out in Geological -1 scale	Exploration carried out laterally in Geological -1 scale, proposal is given in depth ward in the new submission of mmp	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	Synergy geotech Pvt.Ltd., Nagpur Rs. 19.51 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire lease area is covered under G1 level of exploration laterally.	
1e	Balance reserve as on 01/04/20	_____	111----232.50 million tonnes 121/122---2.22 million tonnes 211 --- 82.43 million tonnes 221/222--- 190.29 million tonnes	As on 01.04.2020
1f	General remarks of inspecting officers on geology, exploration etc	_____	Lessee has carried out exploration in G1 scale laterally by 298 bore holes with 9885 meterage . The lease area is covered with top soil followed by sequence of litho units as follows. flaggy Limestone, Dark Greylimestone, Grey Limestone, light grey limestone, Cherty limestone and Calcareous Shale	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit -I N-1100 to N-1925 E-1700 to E - 2000 Pit -II N-1150 to N-1900 E-400 to E - 1595	Pit -I N-1100 to N-1925 E-1700 to E - 2000 Pit -II N-1150 to N-1900 E-400 to E - 1595	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Soil - one bench Ore - 4 benches	Top soil bench is being worked separately. Soil - one bench Ore - 4 benches	Found maintained
2c	Stripping ratio or ore to OB ratio	No OB, Nil	No OB, Nil	
2d	Quantity of topsoil generation in m3	2018-19--- 171760 Tonnes	2018-19---129152 Tonnes	
2e	Quantity of overburden generation in m3	NIL	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	Mining operations are being carried out by maintaining mineral benches of 6-10 m height and Top soil bench is 1 to 2 m separately.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	
3b	Quantity of ROM mineral production proposed	2018-19-- 75,00,000 MT 2019-20-- 89,00,000 MT	2018-19-- 64,78,125 MT 2019-20--32,32,619 MT(UP TO SEP,2019)	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A
3f	Quantity of sub grade mineral generation.	No proposal	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	N.A
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 is to be carried out by 150mm dia Drill( ROCL -6 machines) by maintaining burden X Spacing of 4 to5 meters X 8 to 9 meters with 10 meters deep hole, using Slurry explosives with delay detonators used for controlled blasting to reduce ground vibration	Drilling & Blasting is being carried out as proposed.
3k	Provision of mining machineries in mineral benches	Undertaken as proposed Ex- 6.5m3 - (6) Dumper 55 T-15 Rock breaker--2.1 m3 Dozer--9.4m3 Drill-150 mm dia	Undertaken as proposed Ex- 6.5m3 -(6) Dumper 55 T-15 Rock breaker--2.1 m3 Dozer--9.4m3 Drill-150 mm dia

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 m bench ht	6-10 m
3m	Total area covered under excavation/pits	Up to plan period : 263.650 Ha	2018-19---248.69 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	Up to plan period Pit--263.65 ha Road--14.55 ha Top soil--35.846 ha Infrastructure--4.124 ha Green belt--52.220 ha Mineral separation plant--0.5 ha	2018-19 Pit--245.69 ha Road--14.55 ha Top soil--35.846 ha Infrastructure--3.650 ha Mineral stack--13.194 ha Green belt--53.970 ha Mineral separation plant--0.5 ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16--9200602 tonnes 2016-17--6500000 tonnes 2017-18--7000000 tonnes 2018-19--7500000 tonnes 2019-20--8900000 tonnes	2015-16--5005000 tonnes 2016-17--5231010 tonnes 2017-18--5475000 tonnes 2018-19--6478125 tonnes 2019-20--3232619 tonnes up to september 2019
3q	General remarks of inspecting officers on method of mining etc.	_____	Fully mechanised with deep hole drilling and blasting is being adopted in the lease to excavate 6.5 MTPA Limestone to feed plant.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of top soil proposed.	Seperate dumping undertaken	

4b	Location of topsoil, OB and mineral reject dumps	-	There are 3 major dumps one on either side of the crusher and near pit no 1.	
4c	Number of dumps within lease area and outside of lease area	within lease, 11 slab quarry dumps, 3 top soil dumps	within lease, 11 slab quarry dumps, , 3 top soil dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	2 active dumps/ stacks	2 are active.	
4f	Number of dead dumps.	11 inactive dumps 2 active stacks	11 inactive dumps 2 active stacks	Slab waste dumps have been observed on the Bandralapalli Road within the lease and is shown on the plans.
4g	Number of dumps established.	One	The one dump between - 900 and 1300 grid lines is under process of stabalisation by plantation over it.	
4j	Number of settling ponds		Sump in pit 1 & 2 is being used as settling pond.	
4k	Specific comments of inspecting officer on waste dump management		11 Slab quarry dumps are observed in the lease area and are inactive. no impact to the surrounding due to the above. further 3 Top Soil stacks are present in one of the above plantation is being done for its stabalisation.	

#### 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	No area is mature for reclamation and rehabilitation by backfilling at present.	
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)	Top soil to be utilized for plantation and excess will be stacked in the earmarked places.	Top soil is utilized for plantation as well as excess will be stacked in the earmarked places.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No area is matured for reclamation.

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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).	Yearly report on compliance of proposals of PMCP to be submitted	Submitted for the year 2018-19	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	3.0 Ha with 7500 plantation	3.44 Ha with 6500 plantation	balance plantation has been done in the year 2019-20
6d	No. of saplings planted during the year	7500	6500	2018-19. balance plantation have been done in the year 2019-20
6e	Cumulative no .of plants	No proposal	about 30,400 plantation has been done so far during the plan period	
6f	Any other method of rehabilitation	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D		No area is mature for reclamation and rehabilitation by backfilling	



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
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of Air, water, noise, Ground Vibration is proposed.	Environment monitoring undertaken as proposed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		No area is mature for reclamation and rehabilitation. Plantation has been carried out along safety barried of village road. Environment monitoring is being carried out regularly.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM produced is to be dispatched & used for cement manufacturing	Entire mineral produced was dispatched as such with simulateneous blending of low grade and high grade ores available in the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable.	
7c	Different grade of mineral sorted out at mines.	No proposal	Low grade and High grade mineral available in the lease is being blended in the crushing plant simultaneously to get the required grade for use in cement plant	

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7d	Any beneficiation process at mines .	Only crusing for size reduction of Limestone ore in the lease area.	Only crushing is being carried out for Size reduction of Limestone ore.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Low grade ore and High grade ore available in the lease area is being blended simultaneously to obtain the required grade for use in cement manufacturing. Crushers are installed in the lease for size reduction of limestone ore available in the lease area.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	TOP SOIL is proposed for Utilisation for plantation and stacking purpose	Top SOil is being used for Plantation & Stacking	
8b	Concurrent use or storage of topsoil	TOP SOIL is proposed for Utilisation for plantation and stacking purpose	Both utilisation and stocking is being done in the current year 2018-19.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only Top Soil dumps are proposed	Top soil dump is observed in the lease area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not Applicable as there is no waste rock generation.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Only black cotton soil dump/ Top soil dump is being stacked followed by plantation for it's stabilization
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2018-19 - 7500 saplings to be planted	2018-19 - 6500 saplings planted and balance is planted in the year 2019-20
8g	Survival rate	95%	90%
8h	Water sprinkling on roads to control airborne dust	Proposals are made to use water sprinkling for dust suppression	Water sprinkling arrangements are observed by 3 seperate water tanker to supress the dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantations are being carried out regularly within and outside lease area in safety zone of lease boundary, mine office, soil dumps to improve the aesthetic beauty in and around lease.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR and MR should be submitted regularly as per statute	AR Submitted for 2018-19 and MR Submitted up to date	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Sri H.N Ashoka Geologist in charge Sri Navneet Agrawal	Appointed as submitted in the returns	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 245.060 Ha (iii) Reclaimed/Rehabilitated: 0.150 Ha (iv) Used for waste disposal 46.186 Ha (v) Occupied by plant, buildings, residential, welfare buildings & roads 4.123 Ha (vi) Other Purpose (Haul road) 14.550 Ha (vii) Work done under progressive mine closure plan during the year: 2.600 Ha	Land use pattern submitted in the returns more or less same
9d	Scrutiny of Annual return on afforestation	6500 saplings	6500 saplings were planted
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil reported	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil reported	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Cost of production reported as 159.51 PMT as compared to 157 Rs. PMT in last year.

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.000 CUM 1 Non Electrical, SHOVEL (HYDRAULIC) 2.100 CUM 2 Non Electrical SHOVEL (HYDRAULIC) 6.500 CUM 6 Non Electrical, DUMPER 32.600 TONNE 3 Non Electrical DUMPER 55.000 TONNE 14 Non Electrical, DOZER 302.000 HP 1 Non Electrical, DOZER 416.000 HP 1 Non Electrical DOZER 354.000 HP 1 Non Electrical, BLAST HOLE DRILL- (ELEC.) 150.000 MM 3 Non Electrical, EXPLOSIVE VAN 3.050 TONNE 1 Non Electrical , CRANE 8.000 TONNE 1 Non Electrical, JEEP/TRACTOR 55.000 HP 2 Non Electrical	Provided as proposed.
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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 :**

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines