

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KNL/LST-21/HYD

**Mine code :** 38APR11187

- (i) Name of the Inspecting : **M001** ) **S K MUDULI**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Jagan Mohan Reddy, Kubendra Kumar-Mines Manager, Satish  
Official with  
Designation
- (iv) Date of Inspection : 14/03/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PETNIKOTA(29.70 HA)**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : PETNIKOTA
- Taluka : KOLIMIGUNDLA MANDAL
- Post office : PETNIKOTA
- Pin Code : 518 12
- FAX No. :
- E-mail : utcl-apcw.agentmines@aditya
- Phone : 08558-288847
- (f) Police Station : TADIPATRI
- (g) First opening date : 14/11/2018
- (h) Weekly day of rest : SUN
2. Address for : ULTRATECH CEMENTS  
correspondance : AP CEMENT WORKS  
TADIPATRI-515413
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 CEMCI LTD.  
TUMMALAPENTA VILLAGE  
KURNOOL DISTRICT KURNOOL  
ANDHRA PRADESH  
Phone:  
FAX :

Owner : Sri Kailash Chandra Jhanwar  
B Wing Ahura Centre, 2nd  
floor, Mahakali  
Road, Andheri (East) Mumbai  
KRISHNA ANDHRA PRADESH  
Phone:  
FAX :

Agent : V GANESAN  
BHOGASAMUDRAM VILLAGE  
TADIPATRI MANDAL ANANTPUR  
DISTRICT ANANTAPUR ANDHRA  
PRADESH  
Phone: 08558-288847  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 27/11/2007

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 BHS DURING 2018-19	During 2018-19 a total of 10 nos core Bore Hole was drilled for 425m.	About 25 Ha area has been explored in G1 category.
1b	Exploration over lease area for geological axis 1 or 2	No such approval for 2018-19	25 Ha explored in G1 level	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal in respect of exploration agency and expenditure approved for 2018-19	During 2018-19, a total 10 nos core Bore Hole was drilled for 425m. The drilling cost is Rs 7,86,250 Sampling :37,300 (analysis done APCW own NABL accredited laboratory)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such approval for 2018-19	About 4 Ha is still to be explored in G1/G2 level.	-
1e	Balance reserve as on 01/04/20	No such approval for 2018-19.	However, after deducting the approved production proposal qty. there will be balance 16.299 million tonnes. 16.67 million tonnes as on 01.04.2019	25 ha. has been explored in GI levels
1f	General remarks of inspecting officers on geology, exploration etc	-		

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	No proposal for 2018-19	UTM- N1667930 N 1667880 E179770 E179850	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in mineral only.	One bench of about 2m height developed in limestone.	One bench of 1m height has been developed in top soil.

2c	Stripping ratio or ore to OB ratio	1:0.05	Nil	There will be no generation of OB as mineral is found to occur just below the top soil horizon of 1m thick.
2d	Quantity of topsoil generation in m3	27000 tonnes	About 12000 m3.	
2e	Quantity of overburden generation in m3	48750 tonnes	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			Mechanized method of mining adopted.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2018-19- 195000MT	2018-19- 10000 MT	2019-20 Production proposals is 300000 MT and achievements is upto 29th February 2020 30,590MT
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal for 2018-19	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	-
3f	Quantity of sub grade mineral generation.	No proposal for 2018-19	Nil	-

3g	Grade of sub grade mineral generation	No proposal for 2018-19	Nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal was approved for 2018-19 in respect of seggregation from ROM	Nil	ROM is directly feedable to the captive cement plant, hence no seggregation is required.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal for 2018-19	Nil	-
3j	Provision of drilling and blasting in mineral benches	Mechanized. Wagon Drill, Burden-4m, spacing-6m, depth of hole-7m, ANFO : Slurry Explosive.:80/20	Mechanized. Wagon Drill-115mm dia-1 no, Burden-4m, spacing-6m, ANFO : Slurry Explosive.:80/20	Bench of 2m height developed.
3k	Provision of mining machineries in mineral benches	Machinery Name Quantity Hydraulic Excavator 2 Tipper 4 (10 tonnes) Rock breaker 1 DTH Dill 1 Dozer 1 Water tanker 2	Loading & transportation is being carried out by Excavator and dumper combination. Excavator - 1 No., Dumper - 3 Nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height bench	Pit is in developing stage.	Bench of 2m height developed as on date of inspection
3m	Total area covered under excavation/pits	3.12 Ha.	About 0.40 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 @ 3.120 Hectares Roads @ Nil Infra- 0.18 Ha Greenbelt - 2.010 Ha Mineral storage-0.27 Ha	Excavated Pit @ 0.35 Ha	-
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 189000 MT 2017-18: 192000 MT 2018-19: 195000 MT	2016-17: Nil 2017-18: Nil 2018-19: 10000 MT. Mine opened on 10.01.2017.	-
3q	General remarks of inspecting officers on method of mining etc.			Opencast mine & mining operations are being carried out Southern portion of ML area. Mining pit development is in initial stage. Mechanized 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 & MR for 2018-19. Dumping of OB proposed.	No OB, Top Soil & MR dump exists.	Top soil generated has been collected & spreaded in 7.5m safety zone for GBD (Green Belt Development)
4b	Location of topsoil, OB and mineral reject dumps	No proposal for dumping of top soil & MR in 2018-19.	OB dump location : E840-980 & N340-540.	-
4c	Number of dumps within lease area and outside of lease area	One	Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	No dump exists	-
4e	Number of active and alive dumps.	One active waste 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.	No proposal	Nil as no OB/waste dump exists within the ML.	-
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	-
4j	Number of settling ponds	No proposal	No OB/waste dump exists within the ML.	-
4k	Specific comments of inspecting officer on waste dump management	-	-	No waste dump exists within the ML as on date of inspection

#### 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 such proposal approved for 2018-19	Nil	ML executed on 07.01.2017 mining operation are in initial stage Mineral is yet to be completely mined, hence no part of the ML area is matured for backfilling, reclamation & rehabilitation.
5b	Area under backfilling of mined out area	No such proposal approved for 2018-19	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal approved for 2018-19	Nil	-do-
5d	Total area fully reclaimed and rehabilitated	No such proposal approved for 2018-19	Nil	-do-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-do-

## 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	
6b	Area available for rehabilitation (ha) .	No such proposal approved for 2018-19.	Nil	Mineral is yet to be completely mined, hence no part of the ML area is matured for backfilling, reclamation and rehabilitation.
6c	afforestation done (ha).	No such proposal approved for 2018-19.	Nil	-do-
6d	No. of saplings planted during the year	No such proposal approved for 2018-19.	Nil	-do-
6e	Cumulative no .of plants	No such proposal approved for 2018-19.	Nil	-do-
6f	Any other method of rehabilitation	No such proposal approved for 2018-19.	Nil	-do-
6g	Cost incurred on watch and care during the year	No such proposal approved for 2018-19.	Nil	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal approved for 2018-19.	Nil	-do-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal approved for 2018-19.	Nil	-do-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal approved for 2018-19.	Nil	Mineral is yet to be completely mined, hence no part of the ML area is matured for backfilling, reclamation and rehabilitation.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal approved for 2018-19.	Nil	Mineral is yet to be completely mined, hence no part of the ML area is matured for backfilling, reclamation and rehabilitation.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal approved for 2018-19.	Nil	Mineral is yet to be completely mined, hence no part of the ML area is matured for backfilling, reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal approved for 2018-19.	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal approved for 2018-19.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal approved for 2018-19.	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 2018-19 for 3 core and 4 buffer zone locations for AAQ monitoring 6 locations - noise level monitoring, 6 buffer zone location - water quality monitoring.	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environment monitoring has been carried out during 2018-19 and all the parameters are within the permitted limits.
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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 to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	10000 tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable and no such proposal approved for 2018-19.	Nil	-
7c	Different grade of mineral sorted out at mines.	Not applicable and no such proposal approved for 2018-19.	NA	-
7d	Any beneficiation process at mines .	No such proposal approved for 2018-19	-	ROM quality is directly feedable to captive plant, hence beneficiation is not warranted.
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 feedable.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed to be removed & utilized for GBD	12000m3	Top soil spreaded 7.5 m safety zone for GBD.

8b	Concurrent use or storage of topsoil	Proposed to be utilized for GBD	Spreaded in 7.5m safety zone for GBD.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for 2018-19	No MR OB/waste dump exists within the ML	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-do-	Nil	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)	-do-	No plantation carried during 2018-19	-
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided	Water tanker is provided	-

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	a) Annual returns submitted for the year 2018-19 b) Monthly Submitting the Form F8 in online	Submitted upto Feb 2020. AR for 2018-19 submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	a) Manager @ 1 b) Mining Engineer@ 1 c) Surveyor @ 1 e) Technical supervisory staff 1	Manager, Mining engineer & appointed. Geologist - Not appointed	Advised to appoint Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings @ 0.35Ha.,	Workings @ 0.35Ha., About 0.4 Ha.	-
9d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 433.68	-	Overhead cost (12 person salary Rs.282.08/tonne.) included
9h	Scrutiny of Annual return on fixed assets	Rs. 982287824	-	
9k	Scrutiny of Annual return on mining machineries	Shovel (hydraulic)-1 Dumper - 3		Shovel - 6.5m3 - 1 No. Dumper - 55 tonnes 3 nos.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

(S K MUDULI)

Indian Bureau of Mines