

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-122/HYD

Mine code : 38APR11036

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. KNS Reddy, Agent & Sri. Bhupendra Khorpia, Mine
Official with
Designation
- (iv) Date of Inspection : 18/03/2021
- (v) Prev.inspection date : 13/02/2019

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
	:	MP review under 17(1) MCR 2016	31/03/2020
	:	MP review under 17(1) MCR 2016	22/07/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2019-20 - No proposal	2019-20 - No proposal	
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	----	Entire lease area is covered under G1 level of exploration.	
1e	Balance reserve as on 01/04/20	----	Proved Reserves as on 01/04/2020 - 232.5 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has carried out exploration in G1 scale. The lease area is covered with top soil followed by sequence of litho units as follows. flaggy Limestone, Dark Grey limestone, Grey Limestone, light grey limestone, Cherty limestone and Calcareous Shale

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N925-N1750 N1700-E2100 N1025-N2000 E300-E1595	Work done within proposed co-ordinates.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for top soil and minerals to be developed	Separate benches for top soil and minerals developed and maintained.
2c	Stripping ratio or ore to OB ratio	Nil	Nil
2d	Quantity of topsoil generation in m3	2019-20 - 85880 cu.m	2019-20 - 189930 cu.m
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 meters height and top soil bench of 1 to 2 meters height.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	2019-20 - 8900000 Tonnes	2019-20 - 6370925 Tonnes	
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	
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 and proposed in mineral benches	During inspection it was observed that wagon drill is being used for drilling with a blast hole dia of 150mm with depth of 10 meters, spacing of 5 meters and burden of 4 meters. Blasting is being carried out with slurry explosives with NONELS as initiating device.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, excavators and dumpers for drilling, loading and transportating ore to crusher.	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 10 meters	During inspection it was noticed that the bench height is being maintained between 6-10 m and digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	263.65 Ha	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	Open Pit--248.69 ha Road--14.55 ha Top soil--49.04 ha Infrastructure--4.123ha
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 2020-21--7500000 tonnes	2015-16--5005000 tonnes 2016-17--5231010 tonnes 2017-18--5475000 tonnes 2018-19--6478125 tonnes 2019-20--6370925 tonnes 2020-21--6370925 tonnes
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.

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 for topsoil proposed	Seperate top soil dump maintained.	
4b	Location of topsoil, OB and mineral reject dumps	---	3 dumps - Two 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 area	Within 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.	1 active dump	1 active dump	
4f	Number of dead dumps.	2 inactive dump	2 inactive dump	
4g	Number of dumps established.	One	One	
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			Old slab quarry dumps are found in the lease area and are found to be inactive during inspection. 3 top soil dumps are present in the lease area.

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	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha) .	3.0 Ha	3.44 Ha	
6d	No. of saplings planted during the year	2019-20 - 7500 Nos.	2019-20 - 8500 Nos.	
6e	Cumulative no .of plants	----	30400 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 2019-20 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.

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.	2019-20 - 6370925 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	
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)	Topsoil to be removed seperately and use for plantation	Top soil is removed seperately and used for plantation. Remaining quantity is stacked.	
8b	Concurrent use or storage of topsoil	Plantation and stacking seperately	Topsoil utilised for plantation and stacked seperately.	
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	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2019-20-7500 Nos.	2019-20-8500 Nos.	
8g	Survival rate	---	90%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker is provided for dust suppression in the haul roads and at the loading point.	
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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted in time	Submitted in time	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. Bhupender Khorpia Mining Engineer - Sri. H.N. Ashoka Geologist - Sri. Navaneet Agrawal	Manager - Sri. Bhupender Khorpia Mining Engineer - Sri. H.N. Ashoka Geologist - Sri. Navaneet Agrawal
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open cast workings - 248.69 Ha Dumps-49.04 Ha Haul Roads - 14.55 Ha	Broadly as per submission.
9d	Scrutiny of Annual return on afforestation	8500 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	Nil
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	Cost per tonne is Rs.170.19/-	Ex-mine price is Rs.170.98/-. Since the mine is for captive purpose Ex-mine price should be same as cost per tonne. Violation issued as per rule.
9h	Scrutiny of Annual return on fixed assets	Fixed assets is Rs.978524226/-	----
9k	Scrutiny of Annual return on mining machineries	Shovel - 7 Nos. Backhoe - 2 Nos. Dumper - 18 Nos. Dozer - 3 Nos. Water Tanker - 3 Nos.	Machineries available in the mining area.

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
Rule 45(7)	26/03/2021				

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines