

**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 : **M015**) **MANISH K. MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 13/02/2019
- (v) Prev.inspection date : 30/10/2017

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 : 844.99
- (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	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	2017-18- 6 core boreholes proposed 2018-19-14 core bore holes proposed	2017-18- 6 core boreholes undertaken 2018-19-28 core bore holes undertaken	In 2018-19 lessee has undertaken 16 boreholes at the pit bottom, which were not proposed. So lessee has undertaken exploration 2 borehole less as compared to proposal but in overall the boreholes undertaken is more.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Reported to have incurred Rs 19.51 lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Entire lease area is covered under G1 and G2 level of exploration.	In light of new threshold value Total Mineral resource need to be re-assessed.
1e	Balance reserve as on 01/04/20		Total reserve (111, 121, 122) - 317.28 mT (As on 01.04.2016) Total Reserve Depletion 2016-17 :5.231mT 2017-18: 5.475mT 2018-19:5.512mT Total: 16.218mT Residual Reserve - 301.062 mT	
1f	General remarks of inspecting officers on geology, exploration etc	---	----	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	2017-18 -N1200 to N1960, E1700 to E2000 N1160 to N1960, E700 to E1600 2018-19-N1100 to N1925, E1700 to E2000 N1150 to N1900, E400 to E1595	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Top soil is and being worked separately
2c	Stripping ratio or ore to OB ratio		No overburden.
2d	Quantity of topsoil generation in m3	2017-18 - 41,880 2018-19-118990	2017-18 : 1,14,348 2018-19 up to Jan'19: 1,15,846
2e	Quantity of overburden generation in m3	Nil	Not Applicable
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	2017-18 - 70,00,000 MT 2018-19- 75,00,000MT	2017-18 -5475000 T 2018-19 (Up to Jan'19) - 5512322 T	
3c	Recovery of sailable/usable mineral from ROM production		100% recovery reported.	

3d	Quantity of mineral reject generation	2017-18- Nil 2018-19 (Till Jan)= Nil	2017-18- Nil 2018-19 (Till Jan)= Nil	
3e	Grade of mineral rejects generation and threshold value declared.		Not Applicable	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	NIL	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed	Undertaken as proposed	Blast size has been increased to increase the productivity.
3k	Provision of mining machineries in mineral benches	Use of heavy machinery proposed	Undertaken as proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9m high bench is proposed	The machinery commensurate for 9m high benches in Limestone. ONLY top soil exists above limestone which is worked separately.	
3m	Total area covered under excavation/pits		2017-18 - 238.13 Ha	
3n	Ore to OB ratio for the pit/mine during the year.		There is no Overburden as such in the lease area 114348 cum of top soil is worked for a production of 5475000T of limestone in 2017-18	

3o	Total area put in use under different heads at the end of year		As per the surface plan land degradation reported at the end of 2017-18 Pit / excavation- 238.13 ha. Road- 14.55 hectare Top soil -35.846 hectare Infra 4.123 hectare
3p	Production of ROM mineral during the last five year period as applicable	All figures in tonnes 2013-14 : 9100000 2014-15 : 9200602 2015-16 : 6140598 2016-17 : 6500000 2017-18 : 7000000	All figures in tonnes 2013-14: 5490000 2014-15: 6120000 2015-16 : 5005000 2016-17 : 5231010 2017-18: 5475000
3q	General remarks of inspecting officers on method of mining etc.	-----	-----

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	separate dumping of top soil proposed	Separate dumping undertaken	
4b	Location of topsoil, OB and mineral reject dumps		There are 3 major dumps One on either side of crusher near pit 2 One dump is near pit-1.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		Entire dump is lying on shaly lime stone area.	
4e	Number of active and alive dumps.		2 active and 1 dead dump	

4f	Number of dead dumps.	2 active and 1 dead dump	Slab waste Dumps have been observed on the Bandralapalli Road within the lease and is not shown on the Plans. Lessee has reported that it has written to State Government in this regard.
4g	Number of dumps established.	The one dump between - 900 and -1300 gridline is practically not being used. Plantation has been developed over it to stabilize it.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Provided at suitable locations	
4j	Number of settling ponds	sump is being used as settling pond.	

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		NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Top soil is utilized and stacked .	
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		submitted
6b	Area available for rehabilitation (ha) .		Worked out benches not mature for the purpose
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		2017-18-6558 saplings have been planted. 1758 saplings have been for dump stablisation and 4800 saplings have been planted along the safety zone of the road.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)		Afforestation has been done over 3.24 hectare.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring proposed	Environment monitoring undertaken as proposed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Entire mineral being used as such with / without simultaeous blending.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.		Not applicable	

7c	Different grade of mineral sorted out at mines.	Not applicable
7d	Any beneficiation process at mines	No beneficiation is being done.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Utilisation and stacking proposed	Stacking of topsoil undertaken	
8b	Concurrent use or storage of topsoil		storage of topsoil was done in 2017-18. 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)		top soil has been stocked separately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		Not Applicable as the waste rock generation is very less.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		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)		2017-18 - 6558 saplings planted 2018-19 (till JAN 2018) 7510 SAPLINGS PLANTED	
8g	Survival rate	95%	80%	

8h	Water sprinkling on roads to control airborne dust	Separate water tanker is provided
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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 Submitted for 2017-18 MR Submitted up to Jan'19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Appointed as submitted in the returns	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Land use pattern submitted in the returns need to be corrected as it is not matching with the submission in the Mining Plan.	
9d	Scrutiny of Annual return on afforestation		reported as observed.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NIL reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		-----	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Cost of Production reported as 169.13 Rs PMT as compared to 157 Rs PMT in last year	
9k	Scrutiny of Annual return on mining machineries		Provided as proposed	

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
MCDR17	Rule 11(1)	19/03/2019			
MCDR17	Rule 32(1)(ε	19/03/2019			

Date :

(MANISH K. MAINDIRATTA)

Indian Bureau of Mines