

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

**MCDR inspection REPORT
Hyderabad regional office**

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

Mine code : 38APR10030

- (i) Name of the Inspecting : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri K.N.Sidda Reddy, Agent (Mines)
Official with
Designation
- (iv) Date of Inspection : 20/02/2020
- (v) Prev.inspection date : 11/01/2019

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** : 07/03/2012
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : UltraTech Cement Limited, Balaji Cement Works.
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** : 05/03/2042
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/ : 07/03/2012
 Termination date

Manager

Name : MANOJ BEHARI
 Qualification : B.TECH MINING
 Appointment/ : 07/03/2012
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 28/06/2013
 MP review under 17(1) MCR 2016 28/04/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploratory drilling was proposed during 2018-19. However, the lessee has carried out 53 No.s of Core Bore Holes.	The Lessee has carried out 53 Core Boreholes during 2018-19 with a total meterage of 2979 meters in a grid pattern of 200x200 meters	Total potentially mineralised area is covered under G1 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2	---	The entire potentially mineralised area is covered under G1 level of exploration.	No comments
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	The exploration was carried out by M/s Synergy enterprises. The lessee has reported an expenditure of Rs.71,18,342/- for the 53 Core Boreholes carried out during 2018-19.	No comments
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	The entire potentially mineralised area is covered under G1 level of exploration.	--
1e	Balance reserve as on 01/04/20	---	Total reserves as on 1.4.2019 are 353.55 Million tonnes.	---
1f	General remarks of inspecting officers on geology, exploration etc	---	The entire potentially mineralised area is explored under G1 level.	The lessee has carried out G1 level of exploration in G1 level as per the statute.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	It was proposed to develop the mine on both Northern and Eastern side of the lease between grid values Northing 18623367 to 1865025, Easting 398952 to 399335.	The development of mine is as per the proposals. made in approved document	There is no deviation in the development of the mine.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop five benches with a proposed height of 9 meters.	During the inspection it was observed that five benches are developed in the pit with a height of 8-9 meters.	No comments.
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.031	No comments
2d	Quantity of topsoil generation in m3	None	Not applicable	No comments
2e	Quantity of overburden generation in m3	It was proposed to generate about 27863 Cu.m of interburden during 2018-19	The actual interburden generated during the year 2018-19 was 47127 Cu.m`	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	--	The mine development is as per the proposals made in the approved document.	There is no deviation in the development of mine.The boundary pillars are erected as per the guidelines around the Mining Lease

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit with dimensions of 980 meters x 535 meters x 44 meters was proposed	As proposed one pit was observed.	No comments

3b	Quantity of ROM mineral production proposed	It was proposed to produce 6 million tonnes during 2018-19	The actual ROM produced during 2018-19 was 3.7 million tonnes	It was informed by the lessee that due less market demand, could not meet the target.
3c	Recovery of sailable/usable mineral from ROM production	None	Not applicable	The entire ROM generated is utilised in the captive cement plant of lessee.
3d	Quantity of mineral reject generation	None	Not applicable	No comments
3e	Grade of mineral rejects generation and threshold value declared.	None	Not applicable	No comments
3f	Quantity of sub grade mineral generation.	It was proposed to generate about 31586 tonnes of subgrade during 2018-19	No subgrade generation was there and the entire ROM is utilised in captive plant of lessee.	No comments
3g	Grade of sub grade mineral generation	None	Not applicable	No comments
3h	Manual / Mechanised method adopted for segregating from ROM	It is proposed to carry out mechanised method of mining by adopting deephole drilling and blasting technique and deploying HEMM.	Mechanised method of mining is being adopted in the lease as per the approved proposal.	No comments
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable	No comments

3j	Provision of drilling and blasting in mineral benches	Provision has been made for drilling and blasting in the Mineral benches by using one two 163 mm dia wagon drill and blasting by using ANFO.	It was noticed, rock fragmentation is being done by deephole drilling and blasting method. Blast holes are charged with ANFO explosives/site mixed Emulsion. Advanced technology of Non electric intitiation system of blasting with shock tube detonators in combination with noise less trunk delays used for controlling vibrations and fly rocks.	No comments
3k	Provision of mining machineries in mineral benches	Provision is made for operating five Hydraulic excavator of varying capacities of 6.5 Cu.m & 2.7 Cu.m, one 163 mm dia wagon drill and 14 no.s of 55 tonne dumpers in the mineral benches for producing ROM of 3.7 Million tonnes per year.	The number of HEMM used in the Mineral benches is adequate for producing 3.7 Million tonnes of ROM per year as envisaged in the approved document.	No comments
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain an height of 9 meters height in the benches.	The proposed bench height is being maintained at 8-9 meters which is compatible with the digging height of the deployed excavator.	No comments
3m	Total area covered under excavation/pits	--	The total area covered under excavation/pits is 42.020 ha	No comments
3n	Ore to OB ratio for the pit/mine during the year.	1:0.008	1:0.031	No comments

3o	Total area put in use under different heads at the end of year	--	The total are under diffrent areas put to use are as follows: 1. Pits - 42.020 ha 2. Dump- 2.870 ha 3. Infrastructure - 7.340 ha 4. Plantation/Green belt - 12.810 ha	No comments
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 6 million tonnes 2015-16 - 6 Million tonnes 2016-17 - 6 Million tonnes 2017-18 - 6 Million tonnes 2018-19 - 6 Milion tonnes	The actual production reported was as follows: 2014-15 - 2.23 Million tonnes 2015-16 - 2.32 Million tonnes 2016-17 - 1.50 Million tonnes 2017-18 - 2.70 Million tonnes 2018-19 - 3.73 Million tonnes	No comments
3q	General remarks of inspecting officers on method of mining etc.	---	The lessee is developing the mine in a systematic manner.	No comments

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to generate about 31586 tonnes of subgrade mineral duirng 2018-19	However, the lessee has not reported any subgrade mineral and the entire ROM is being utilised for manufactuirng of cement in their captive plant.	No comments
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to generate about 27863 Cu.m of interburden during 2018-19.	The lessee has reported generation of 47127 Cu.m of interburden during the year 2018-19.	No comments
4c	Number of dumps within lease area and outside of lease area	The interburden being generated is proposed to be dumped on the Northern part of the lease.	A dump of interburden stacked on Northern side of the lease is observed during the inspection.	No comments

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One dump of interburden on Northern side of the lease.	One dump of interburden on Northern side of the lease was observed during the inspection	No comments
4e	Number of active and alive dumps.	One dump on Northern side.	One active dump of interburden on Northern side of the lease was observed in the lease.	No comments
4f	Number of dead dumps.	None	Nil	No comments
4g	Number of dumps established.	One	One	No comments
4h	Whether Retaining wall or garland drain all along dumps are there.	---	A retaining wall was observed with a length of 540 meters and 1.5 meters height.	No comments
4i	Length of Retaining wall or garland drain all along dumps	--	One retaining wall of 540 meters x 1.5 meters height.	No comments
4j	Number of settling ponds	Nil	None	No comments
4k	Specific comments of inspecting officer on waste dump management	None	Not applicable	No comments

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.	None	Not applicable	No comments
5b	Area under backfilling of mined out area	None	No comments	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	Not applicable as there is no topsoil generation.	No comments
5d	Total area fully reclaimed and rehabilitated	None	Not applicable	No comments

5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	Not applicable	No comments
----	--	------	----------------	-------------

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).	--	The Annual report on environemntal protective measures submitted by the lessee in time.	No comments
6b	Area available for rehabilitation (ha) .	None	Not applicable	No comments
6c	afforestation done (ha).	1800 no. of saplings proposed during 2018-19 over 1 ha.	The actual plantation carried out was 3083 saplings over 2 ha. during 2018-19	No comments
6d	No. of saplings planted during the year	1800 no.s	3083 no.s	Plantation carried out as proposed.
6e	Cumulative no .of plants	--	14040 no. since opening of mine	No comments
6f	Any other method of rehabilitation	None	Not applicable	No comments
6g	Cost incurred on watch and care during the year	--	Rs.1,35,000/- was reported by the lessee as the cost incurred towards watch and ward for the year 2018-19	No comments
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	Not applicable	No comments
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	Not applicable	No comments

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	Not applicable	No comments
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	Not applicable	No comments
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable	No comments
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	Not applicable	No comments
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	Not applicable	No comments
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	Not applicable	No comments
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed by the lessee to carry out quarterly monitoring of the core and buffer zones for environmental parameters.	The lessee is carrying out quarterly environmental monitoring of all the parameters in both core and buffer zones.The environmental parameters are within the permissible limits.	No comments
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	The lessee has carried out plantation as per the proposal.	No comments

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produce about 6 million tonnes of ROM during 2018-19.	The lessee has reported about 3.7 Million tonnes of ROM duirng 2018-19.	There was no upward deviation in the proposed production.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No sorting was proposed.	Not applicable	No comments
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	--	None	No comments

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no topsoil in the lease.Interburden in the form of morram/clay material is being generated.It was proposed to generate 27863 Cu.m of Interburden during 2018-19.	The actual interburden reported was 471127 Cu.m	No comments

8b	Concurrent use or storage of topsoil	None	Not applicable as there is no topsoil.	The interburden generated is being dumped on the Northern part of the lease.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None	Not applicable	No comments
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	Not applicable	No comments
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	Not applicable	No comments
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The entire lease area falls under Reserve Forest. However , the lessee has carried out plantation totalling 14,040 no.s for last 8 years.	The entire lease area falls under Budawada Reserve forest. Lessee has done plantation of about 14,040 saplings since opening of mine and there other shrubs in the lease area.	No comments
8g	Survival rate	90%	80%	No comments
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust suppression by way of using water sprinklers on the haul roads/mine faces.	Two water sprinklers are in use for controlling dust suppression in the lease.	No comments
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	The general aesthetic beauty in around mine is of moderate quality. Needs improvement.	No comments

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	---	The Monthly and Annual Returns are being submitted regularly.	--
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual return 2018-19 Sri Vasanth Kumar was appointed as Mining Engineer and Sri Partha Sarathi Maji as Geologist.	As per the records, the above two were appointed as Mining Engineer and Geologist.	The Statutory Mining Engineer and Geologist are appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	---	As per the Annual Return 2018-19 the are under pits,dumps etc is as follows: 1. Area under current workings: 42.020 ha 2. Area under waste disposal: 2.870 ha 3. Area under Plantation: 12.810 ha 4. Area under infrastructure: 7.340 ha	---
9d	Scrutiny of Annual return on afforestation	As per the Annual return 2018-19,3083 sapling have been reported to be planted.	The same have been noticed to have been planted.	----
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generation has been reported in the Annual return 2018-19.	No mineral reject was generated.	---
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per the Annual return 2018-19, it was reported that 3.73 Million tonnes of ROM was produced.	The Actual ROM generated as per the records is 3.73 Million tonnes.	No comments
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported in the annual return is Rs.253.92	The same was observed in the records during inspection.	---

9h	Scrutiny of Annual return on fixed assets	It was reported that the value of fixed assets is Rs 29 crores.	The same was observed as per the records.	No comments
9k	Scrutiny of Annual return on mining machineries	---	1. Hydraulic shovel-3(6.5 Cu.m) 2. Hydraulic shovel-1(2.7 Cu.m) 3. Hydraulic shovel-1(1.4 Cu.m) 4. Dumper- 14(55 tonne) 5. Blast hole drill-2(163 mm) 6. Dozer-2(451 HP) 7. Explosive van-2 8. Water Tanker-2 9. Motor Grader-1(150 HP)	---

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 :

(**SHAIENDRA KUMAR**)

Indian Bureau of Mines