

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

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/GLB/LST/11/BNG

**Mine code :** 38KAR10009

- (i) Name of the Inspecting : 130 ) PRASHANT S HEGDE  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri D.P. Mukhopadhyay, Mines Manager and Ravi Kan  
Official with  
Designation
- (iv) Date of Inspection : 03/11/2018
- (v) Prev.inspection date : 10/08/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : RAJASHREE CEMENT
- (b) **Registration NO.** : IBM/441/2011
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : GULBARGA
- Village : ADITYANAGAR
- Taluka : SEDEM
- Post office : MALKHED ROAD
- Pin Code :
- FAX No. : 08441-288624
- E-mail : vijaykumar.mali@adityabirla
- Phone : 08441-288888
- (f) **Police Station** : MALKHED
- (g) **First opening date** : 04/08/1981
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s Ultra Tech Cement Ltd., Rajashree Cement Wor  
Aditya Nagar, Malkhed Road  
Dist-Kalaburgi-585 292
3. (a) **Lease Number** : KAR0085
- (b) **Lease area** : 733.71
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 03/08/2021
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/s Ultra Tech Cement Ltd  
 Aditya Nagar, Malkhed Road  
 At-Malkhed GULBARGA  
 KARNATAKA  
 Phone:08441-288888  
 FAX :08441-288624

Owner : K C. JHANWAR, M/s Ultratech Cement Ltd  
 Ahura Center, A-Wing 1st  
 Floor, Mahakali Caves Road  
 , Andheri (E), Mumbai  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone: 022-66917486  
 FAX : 022-66928109

Agent : VD Mali  
 Ultratech Cement Ltd.  
 Aditya Nagar Malkhed Road,  
 Gulbarga GULBARGA KARNATAKA  
 Phone: 9826909505  
 FAX :

Mining Engineer  
 Name : Yatendra Sharma, Full Time  
 Qualification : BE (Mining), 1st Class Mines Managers Ce  
 Appointment/ : 05/10/2015  
 Termination date

Geologist  
 Name : Ravikant Shukla, Full Time  
 Qualification : M.Tech (Applied Geology)  
 Appointment/ : 01/11/2013  
 Termination date

Manager  
 Name : D P Mukhopadhyay  
 Qualification : BE Mining  
 Appointment/ : 29/04/2017  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	26/04/1990
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	02/08/1995
		Renewal under rule 22 MCR1960	19/10/2000
		Mining Scheme rule 12 MCDR1988	19/05/2006
		Mining Scheme rule 12 MCDR1988	29/07/2011
		Mining Scheme rule 12 MCDR1988	03/03/2016
		MP modif under 17(3) MCR 2016	25/05/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Entire ML area covered under G-1 level of Exploration.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Entire ML area covered under G-1 level of Exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire ML area covered under G-1 level of Exploration. However, the lessee had proposed 50 nos of additional BHS with 2700 meterage to ascertaining depth extent of siliceous Limestone during 2019-20 onwards in the approved modified RMP dated 22/5/2018.
1e	Balance reserve as on 01/04/20	----- --	511.13 million tonnes of reserves (cement grade)	Based on approved modified RMP dated 22/5/2018.
1f	General remarks of inspecting officers on geology, exploration etc	----- -	-----	Lessee had drilled 250 nos of core boreholes with 16,163 total meterage so far and entire ML area cover under G-1 level.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Single pit located North-western side w.r.t. lease area.	Single pit located North-western side w.r.t. lease area.	NIL

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil/ OB bench: one Mineral Benches: seven	Topsoil/ OB bench: one Mineral Benches: seven	NIL
2c	Stripping ratio or ore to OB ratio	1: 0.05	1: 0.076	Subsequently RMP modified on 22/5/18.
2d	Quantity of topsoil generation in m3	244,456	204,101	NIL
2e	Quantity of overburden generation in m3	NIL	NIL	There is no OB except top soil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Development is being carried out as per Approved SOM and their modification (RMP) for requirement of their captive cement plant.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Existing Pit dimension: 2250 m X 1297 m X 60 m
3b	Quantity of ROM mineral production proposed	12 million tonnes	6 . 69 million tonnes	Less production due to market condition and requirement of their captive cement plant. Subsequently RMP modified on 22/5/18 with reduction in production to 9 million tonnes per annum.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL

3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	No mineral rejects generation.
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub-grade mineral generation.
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Limestone transported by shovel & dumpers combination to crushers.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Yes. Deep hole drilling and blasting proposed	Carried out as per the proposals.	NIL
3k	Provision of mining machineries in mineral benches	Excavators & Dumpers combination.	Excavators & Dumpers combination.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top soil OB: 1 to 2 m Mineral: 9 to 12 m	Top soil OB: 1 to 2 m Mineral: 3.5 to 10 m	NIL
3m	Total area covered under excavation/pits	170.65 Ha	168.65 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1.0.076	NIL
3o	Total area put in use under different heads at the end of year	Pit: 170.65 Ha Dumps: 31.9 Ha Infrastructure : 1 Ha Roads: 2 Ha	Pit: 168.65 Ha Dumps: 28.29 Ha Infrastructure: 1 Ha Roads: 2 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 12.10 2014-15: 11.02 2015-16: 13.12 2016-17: 11.0 2017-18: 12.0	2013-14: 6.2 2014-15: 6.42 2015-16: 7.03 2016-17: 7.10 2017-18: 6.69	Unit: in Million tonnes

3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Mining operation/method is being carried out as per approved SOM/RMP and their modifications.
----	---	-------	-------	---

---

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 topsoil proposed.	Carried out as per proposals.	No OB and mineral rejects in this mine.
4b	Location of topsoil, OB and mineral reject dumps	Separate dumping of top-soil along/near southern side lease boundary.	Carried out as per proposals.	NIL
4c	Number of dumps within lease area and outside of lease area	Total 10 nos dumps (top-soil) within ML (one old dump partly outside ML).	Total 10 nos dumps (top-soil) within ML ( one old dump partly outside ML).	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Located near/along ML boundary as per approved SOM/RMP	Located near/along ML boundary as per approved SOM/RMP	Entire ML mineralized.
4e	Number of active and alive dumps.	3 nos	3 nos	Top-soil dumps.
4f	Number of dead dumps.	7 nos	7 nos	Top-soil dumps.
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed all along dumps	Garland drain provided all along dumps as proposed.	NIL
4i	Length of Retaining wall or garland drain all along dumps	900 m	900 m	Garland drain
4j	Number of settling ponds	one	one	NIL

4k	Specific comments of inspecting officer on waste dump management	-----	-----	Top soil management is being carried out as per approved SOM/modified RMP.
----	--	-------	-------	--

#### 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 backfilling proposals.	NIL	Pit not matured for back-filling and no OB wastes available.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Dumping of top-soil along the lease boundary for plantation purpose.	Carried out as per proposals.	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	Pit not matured for back-filling and no OB wastes available

#### 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).	1st July of every Year.	Submitted on 21/6/2018.	NIL
6b	Area available for rehabilitation (ha) .	1.192 Ha	1.43 Ha	Top-soil dumps.
6c	afforestation done (ha).	1.192 Ha	1.43 Ha	NIL

6d	No. of saplings planted during the year	3700 nos	4290 nos	NIL
6e	Cumulative no .of plants	3,03,382 nos	3,14,282 nos	NIL
6f	Any other method of rehabilitation	Afforestation	Afforestation	NIL
6g	Cost incurred on watch and care during the year	2.4 lakhs	9.49 lakhs	As reported.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	Pit not matured for back-filling and no OB wastes available.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	Lower portion of part of existing pit is being utilised as waster reservoir.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	Entire ML is mineralised.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	NIL



6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level.	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level are being carried out and all parameters are within limit.	NIL
----	--	---	---	-----

### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct dispatch of ROM to their captive cement plant after crushing ( through conveyor belt).	Direct dispatch of ROM to their captive cement plant after crushing ( through conveyor belt).	8.7 MTPA cement capacity of plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	ROM crushed at their crushers having capacities ( 1) 1200 TPH (2) 1200TPH and (3) 1600 TPH as per their quality requirement.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	All ROM is directly feed to crushers only.
7d	Any beneficiation process at mines	NIL	NIL	No beneficiation except crushing.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Mineral conservation is being carried out as per approved SOM/modified RMP. Entire ROM is being utilised.

### Environment:

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

8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of 2.44 lakhs cu.m of topsoil.	Separate removal and utilization of 2.04 lakhs cu.m of topsoil.	NIL
8b	Concurrent use or storage of topsoil	100% utilization for Plantation purpose.	100% utilization for Plantation purpose.	Bund formation along ML boundary for plantation purpose.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	There is no OB waste, waste rock and mineral reject in this mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	There is no OB waste, waste rock and mineral reject in this mine. 100% utilization of top-soil for Plantation purpose.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Pit not matured for back-filling and no OB wastes available.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3700 nos for year 2017-18	14,600 nos for year 2017-18 and cumulative of 3.1 lakhs nos of plantation so far.	NIL
8g	Survival rate	85 %	85 %	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	The regular dust suppression by water tankers/sprinkling of water is made in the mine, colony and plant areas.	NIL

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	The aesthetic beauty in and around mine is good as lessee had carried out huge afforestation and other environmental protective measures as per approved SOM/modified RMP.
----	--	-------	-------	--

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MRs (up to sept-18) and AR-2017-18 were received.	Submission of MRs and AR were regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr Yatendra Sharma, ME Mr Ravikant Shukla, Geologist Mr D.P. Mukhopadhyay, MM	Actual also same.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 168.65 Ha Infrastructure & Road: 3 Ha Soil dump: 28.29 Ha	Actual also same.	NIL
9d	Scrutiny of Annual return on afforestation	WML: 14,600 nos OML: 8,902 nos	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stock of ROM was NIL	Actual also same.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price and cost of production per tonne was Rs 182.48	Actual also appear to be same as captive mine.	NIL

9h	Scrutiny of Annual return on fixed assets	Rs 2355,95,52,066	Actual also appear to be same.	NIL
9k	Scrutiny of Annual return on mining machineries	Blast Hole drill:2 nos Crusher: 3 nos Dumpers(100 tonnes): 8 nos Dumpers (60tonnes): 4 nos Hy. Shovel (6.5 cum): 3 nos Hy. Shovel (11.5 cum): 1 nos Hy. Shovel (1.8 cum): 1 nos Water tankers: 2 nos Front end Loader: 1 nos Dozer: 1 nos	Actual also same.	NIL

---

**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 :**

(PRASHANT S HEGDE)

Indian Bureau of Mines