

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/CDP/LST-6/HYD

**Mine code :** 38APR04008

- (i) Name of the Inspecting : **S11** ) **SHAILENDRA KUMAR**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri K V S Sharma Agent(Mines)  
Official with  
Designation
- (iv) Date of Inspection : 25/10/2018
- (v) Prev.inspection date : 28/10/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ZUARI**
- (b) **Registration NO.** : **IBM/996/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : **ANDHRA PRADESH**  
District : **CUDDAPAH**  
Village : **VALASAPALLI**  
Taluka : **KAMALAPURAM**  
Post office : **KRISHNA NAGAR**  
Pin Code : **516311**  
FAX No. : **08563 - 275106**  
E-mail : **SK.TIWARI@HEIDELBERGCEMENT**  
Phone :
- (f) Police Station : **YERRAGUNTLA**
- (g) First opening date : **14/05/1982**
- (h) Weekly day of rest : **SUN**
2. Address for : **M/S ZUARI CEMENT**  
correspondance : **KRISHNA NAGAR, YERRAGUNTLA**  
**CUDDAPAH DIST-516 311**
3. (a) Lease Number : **APR0023**
- (b) Lease area : **656.68**
- (c) Period of lease : **20**
- (d) Date of Expiry : **13/04/2022**
4. Mineral worked : **LIMESTONE** Main

## 5. Name and Address of the

Lessee : ZUARI CEMENT  
 HALL 10TH MAIN ROAD  
 JEEVANBHEEMANAGAR BANGLORE  
 URBAN KARNATAKA  
 Phone:0805207610  
 FAX :0805207622

Owner : SUSHIL KUMAR TIWARI  
 KRISHNA NAGAR VALASAPALLI  
 VILLAGE YERRAGUTLA MANDAL  
 CUDDAPAH ANDHRA PRADESH  
 Phone: 8800577222  
 FAX :

Agent : K V S SHARMA  
 M/S ZUARI CEMENT KRISHNA  
 NAGAR VALASAPALLI  
 VILLAGE, YERRAGUNTLA MAN  
 CUDDAPAH ANDHRA PRADESH  
 Phone: 9676404562  
 FAX :

## Mining Engineer

Name : S RAGHURAM, Full Time  
 Qualification : B TECH MINING  
 Appointment/ : 26/03/2012  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	19/12/1996
Plan/Scheme of Mining		Fresh under rule 22 MCR1960	26/06/2001
		Modif.of approved Mining Plan	11/10/2004
		Modif.of approved Mining Plan	22/08/2005
		Modif.approved Mining Scheme	15/11/2007
		MP review under 17(1) MCR 2016	05/01/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposed during 2017-18.	No backlog for exploration was there for year 2017-18. However, during the year 2018-19 carried out 08 Core bore holes.	None
1b	Exploration over lease area for geological axis 1 or 2	It is proposed to cover the total lease area under G1 scale of exploration by end of 31.3.2019.	As proposed total area is covered under G1 scale of exploration.	Total lease area is covered under G1 scale of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for the year 2017-18.	No exploration carried out during 2017-18. During 2018-19 up to October 2018 carried out 08 core bore holes incurring an expenditure of Rs.34000/-	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	None
1e	Balance reserve as on 01/04/20	As per proposal reserves as on 31.3.2018 - 317.52 Million tonnes	Balance reserves as on 31.3.2018 are 317.52 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	---	The total lease area is covered under G1 scale of exploration.	None

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It is proposed to carry out the mining between N 1850-2265 E 1335-E1676 on the Eastern side of the lease. and between N1785-2630,E 575-815 on North Western side of the lease.	The workings are being carried out as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches in topsoil were proposed.Four benches in the Mineral	No benches in topsoil were observed.There are four benches in the mineral with an average height of 9 meters.	None
2c	Stripping ratio or ore to OB ratio	Nil	Nil	Nil
2d	Quantity of topsoil generation in m3	It was proposed to generate an amount of 121618 Cu.M of topsoil duirng 2017-18.	The actual generation of topsoil as reported by lessee was 137460 Cu.m duirng the year 2017-18	None
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	None
3b	Quantity of ROM mineral production proposed	5.38 Milion tonnes duirng 2017-18	Actual production reported was 3.45 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	None

3d	Quantity of mineral reject generation	Nil	Nil	None
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	None
3f	Quantity of sub grade mineral generation.	Nil	Nil	None
3g	Grade of sub grade mineral generation	Nil	Nil	None
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	Proposals have been made for drilling and blasting in mineral benches.	Provisions such as suffiecient height and width have been maintained in mineral benches.	None
3k	Provision of mining machineries in mineral benches	proposals for maintaining heavy machinery in mineral benches has been made.	Provision has been made for maintaining machinery in mineral benches as proposed.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It is proposed to maintain a height of 8-9 meters bench height.	It was observed that bench height asproposed has been maintained.	None
3m	Total area covered under excavation/pits	133.04 ha	134.31 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	None

3o	Total area put in use under different heads at the end of year	Mine workings- 133.04 ha Buildings/roads etc- 14.24 ha Topsoil dump- 22.72 ha	Mine workings-134.31 ha Buildings/roads etc- 14.24 ha Topsoil dump-22.15 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2013-14-5.3 million tonnes 2014-15-5.3 million tonnes 2015-16-5.3 million tonnes 2016-17-5.3 million tonnes 2017-18-5.3 million tonnes	2013-14-3.73 million tonnes 2014-15-3.81 million tonnes 2015-16-3.45 million tonnes 2016-17-4.15 million tonnes 2017-18-3.45 million tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	None	None	None

## 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 121618 Cu.M of topsoil during 2017-18.	The actual generation of topsoil was 137460 Cu.m during 2017-18.	None
4b	Location of topsoil, OB and mineral reject dumps	The topsoil generated is proposed to be dumped all along the bund and to stack some amount between N2776-N2608,E 1303-E 1472.	The topsoil dump was located at the place as proposed.	None
4c	Number of dumps within lease area and outside of lease area	It is proposed to have three dumps in the lease area.	It was observed that there were three dumps in the lease area of OB removed earlier. The dimensions of the dumps are as follows: 1. 92x22x9 meters 2. 102x40x8 meters 3. 240x145x6 meters	None

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	1. N2935-N2985,E 740-E840 2. N2885-N2950,E960-E1065, 3. N2450-N2660,E1325-E1575	The dumps were observed as proposed at the respective areas.	None
4e	Number of active and alive dumps.	01	01	None
4f	Number of dead dumps.	02	02	None
4g	Number of dumps established.	Nil	Nil	None
4h	Whether Retaining wall or garland drain all along dumps are there.	A retaining wall up to a height of 1 meter was constructed.	A retaining wall of 1 meter height was noticed during the inspection.	None
4i	Length of Retaining wall or garland drain all along dumps	--	A retaining wall of approximately 300 meters was noticed along the active dump	None
4j	Number of settling ponds	Nil	Nil	None
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	None

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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.	There is no proposal for backfilling during the year 2017-18	No backfilling was carried out during the year 2017-18	None
5b	Area under backfilling of mined out area	Nil	Nil	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	None

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	No area matured for reclamation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil	None

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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).	It was proposed to submit all the statutory reports.	The annual report on protective measures has been submitted by the lessee.	None
6b	Area available for rehabilitation (ha) .	Nil	Nil	None
6c	afforestation done (ha).	It was proposed to plant 2500 no.s per year over an extent of 1 ha.	During the year 2017-18 about 1900 no.s were planted over an extent of 0.90 ha.	None
6d	No. of saplings planted during the year	2500	1900	None
6e	Cumulative no .of plants	20000	19100	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on -- watch and care during the year	--	It was reported by lessee that am amount of Rs.3,00,000/- incurred duiring the year 2017-18	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Nil	Nil



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
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	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Nil	Nil	Nil
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)	It was proposed to carry out environmental monitoring of core and buffer zone.	The environmental monitoring of core and buffer zone was carried out quarterly during the year 2017-18 and all the parameters are within the permissible limits.	None

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	None
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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 5.3 Million tonnes of Limestone duirng 2017-18.	The actual production reported by the lessee was 3.4 Million tonnes	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	The entire ROM is being consumed in the captive plant of lessee.	None
7d	Any beneficiation process at mines .	Nil	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It is proposed to utilise thye topsoil generated to stack and also use for plantation purposes.	It was observed during the inspection that most of the topsoil generated is being utilised for plantation and some quantity is being stacked.	None
8b	Concurrent use or storage of topsoil	Plantation purpose.	Being used for plantation purpose.	None

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	None	None	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Vegetation comprises of the plantation made by the lessee during the preceding years.	Except for few bushy type of vegetation other vegetation is made up of plantation made by lessee.	None
8g	Survival rate	--	80%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to control the dust by using water sprinklers	It was observed that all along the haul road there are drip irrigation pipes and also water tankers being used for dust suppression.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	It is proposed to submit all statutory returns on time.	Both Monthly & Annual returns are submitted by lessee on time.	None

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	--	Sri S Raghuram is the Mining Engineer and Sri Manjunath is Geologist.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	---	Under current workings - 134 ha plant/buildings/infrastructure - 14.240 ha Plantation and Topsoil dump - 22.150 ha	None
9d	Scrutiny of Annual return on afforestation	--	As per the Annual returns 2017-18, about 1990 saplings were planted with a survival rate of 80%.	None
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	--	3.45 Million tonnes	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of production and ex mine price given in Annual return 2017-18 was Rs.162/- per tonne.	The same was noticed during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported in Annual return is Rs.10204982513 /-	The scrutiny of the same has been not taken up.	None

9k	Scrutiny of Annual return on mining machineries	The details of Mining Machineries reported in the Annual return 2017-18 are as follows: 1.Shovel(Hydraulic)-2 2. Dumper - 8 3. Dozer - 1 4.Blast hole drill - 2 5. Motor Grader - 1 6. Explosive van - 1 7.Water tanker - 2 8.Tractor - 1 9. Roas Roller - 1 3.	The above mentioned machinery were noticed duiring the inspection.	None
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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 :**

(**SHAIENDRA KUMAR**)

Indian Bureau of Mines