

**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 : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 14/10/2016
- (v) Prev.inspection date : 13/02/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ZUARI**
- (b) **Registration NO.** : **IBM/996/2011**
- (c) Category : A 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 : **K.SRIVATSAVA@ZCLTD.COM**
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 : **14/04/2022**
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 : KRISHNA SRIVATSAVA
 ZUARI CEMENT LTD
 JEEVANBHEEMA NAGAR
 BANGALORE BANGALORE
 KARNATAKA
 Phone: 080-5207610
 FAX : 080-5207622

Agent : Y.S.RAO
 KRISHNANAGAR VILLAGE KADAPA
 DISTRICT CUDDAPAH ANDHRA
 PRADESH
 Phone:
 FAX :

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	None
1b	Exploration over lease area for geological axis 1 or 2	There was no proposal for exploration during the year 2015-16.	No exploration was carried out during the year 2015-16.	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total area has been covered under G1 and G2 axis.	None	None
1e	Balance reserve as on 01/04/20	None	124.42 Million Tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to develop the first bench towards west, second bench towards west and third bench towards west.	The development was carried out as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in topsoil and 04 benches in ore	The same was noticed during the inspection	None
2c	Stripping ratio or ore to OB ratio	0.023	0.026	None
2d	Quantity of topsoil generation in m ³	122400 Cu.m	90388 Cu.m	None

2e	Quantity of overburden generation in m3	None	None	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

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	5.3 Million tonnes	3.45 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	None
3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to carry out by Mechanised mining	The same was noticed.	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	It was proposed to carry out drilling and blasting using 115 MM dia drills	The same was noticed	None
3k	Provision of mining machineries in mineral benches	It was proposed to use mining machinery on the benches	It was noticed that shovels and other machinery was used on the benches.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to have a bench in topsoil of 1.5m and benches in ore with 9m height.	The same as proposed were noticed during the inspection	None
3m	Total area covered under excavation/pits	124 ha	120 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	None	None	None
3o	Total area put in use under different heads at the end of year	123 ha	120 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2011-12-5.31 Million tonnes 2012-13-5.30 Million tonnes 2013-14-5.21 Million tonnes 2014-15-5.30 Million tonnes 2015-16-5.32 Million tonnes	2011-12-3.91 Million tonnes 2012-13-4.10 Million tonnes 2013-14-4.25 Million tonnes 2014-15-4.30 Million tonnes 2015-16-4.31 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
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed to stack topsoil generated seperately	The same was being followed	None
4b	Location of topsoil, OB and mineral reject dumps	N2410-2780 & E1220-1580	N2410-2780 & E1220-1580	None
4c	Number of dumps within lease area and outside of lease area	01	01	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N2410-2780 & E1220-1580	N2410-2780 & E1220-1580	None
4e	Number of active and alive dumps.	01	01	None
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	It was proposed to terrace around the dump.	The sae was followed	None
4i	Length of Retaining wall or garland drain all along dumps	None	None	None
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

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 was no proposal for backfilling as no area was matured for backfilling.	No are has been matured for backfilling as on date.	None

5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	None
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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 the annual report regularly	The annual report under rule 23E(2) of MCDR,1988 was submitted by the lessee.	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	Proposed to carry out plantation for 5200	5234 no.s	Noe
6d	No. of saplings planted during the year	5200	5234	None
6e	Cumulative no .of plants	--	25754	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	None	None	None

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None

6p	Compliance of environmental monitoring (core zone and buffer zone)	None	None	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to use the entire ROM in the captive cement plant	It was noticed that the entire ROM is being utilised for captive cement plant.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
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	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to stack seperately the topsoil generated.	It was observed that the same is being followed.	None
8b	Concurrent use or storage of topsoil	It was proposed to stack and use for plantation	It was seen that part of the topsoil is being used for plantation and rest for stacking.	None
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)	There are about 16800 plants in the lease.	The same was noticed duiring the inspection.	None
8g	Survival rate	80%	80%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to carry out water sprinkling for dust suppression	It was noticed that two water tankers were engaged for sprinkling water for dust suppression	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are being submitted regularly manually and online also	None	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	It was proposed to appoint a full time Mining Engineer ,Geologist and Manager.	It was reported that a full time mining engineer by name Sri S Raghuram,Geologist by Name Sri Viswanath Reddy and Manager by Name Sri KVS Sarma are appointed.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The total area under working was 120 ha.under plantation was 12 ha and roads and buildings was 8.9 ha	The same was noticed duirng the inspection	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM reported was 3.45 Million tonnes	The same was verified and found correct.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price was reportedRs 199/-	The same was observed.	None
9h	Scrutiny of Annual return on fixed assets	Rs.11148079854 /- was reported as value of fixed assets	The same could not be verified	None

9k	Scrutiny of Annual return on mining machineries	Three Hydraulic shovels,eleven dumpers,one 150 mm dia blast hole drill,one dozer,one motor grader,two water tanker, one tractor and one explosive van were reported to be under use by the lessee in AR	Few of the machinery mentioned above could be observed 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 cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines