INDIAN BUREAU OF MINES MINERALS DEVELOPMENT 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: M029) MADHU SUDHAN YADAV M

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Shri K.V.S. Sharma Mine Manager, Sri. Raghavendra, Ge

Official with Designation

(iv) Date of Inspection : 13-SEP-21
(v) Prev.inspection date : 07-JAN-21

PART-I : GENERAL INFORMATION

(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-MAY-82

(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 : 40

(d) Date of Expiry : 13-MAY-22

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-MAR-12

Termination date

6. Date of approval of Mining : Exist

Plan/Scheme of Mining

: Existing rule 11 MCDR1988 19-DEC-96
Fresh under rule 22 MCR1960 26-JUN-01
Modif.of approved Mining Plan 11-OCT-04
Modif.of approved Mining Plan 22-AUG-05
Modif.approved Mining Scheme 15-NOV-07
MP review under 17(1) MCR 2016 05-JAN-17
MP modif under 17(3) MCR 2016 12-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal in 2020-21	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2021-22 - 13		
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal in 2020-21	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	G1 - 535.56 Ha G2 - 121.12 Ha	
1e	Balance reserve as on 01/04/20		Proved Mineral Reserves as on 01/04/2021 - 324.99 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration is in progress to convert the G3 level area of 121.12 Ha into to G1 level.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1850-2780 E240-1680	Work done within the proposed co-ordinates	
2b	in topsoil, overburden and	-	One topsoil bench and three mineral benches developed.	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	2020-21 - 113750 cu.m	2020-21 - 105097 cu.m	

2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No OB is generated in the proposed mining area and the limestone is found just below the top soil horizon of around 2m thickness.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 4530500 Te	2020-21 - 2690000 Te	
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed in the mineral benches.	Duirng inspection it was observed that Wagon drill being used for drilling with a blast hole dia of 150 mm & depth of 9 m, spacing of 8 meters and burden of 5 meters. Blasting with slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, excavators & dumpers for drilling, loading & transporting of ore to crushing plant.	During inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 9 meters	Bench height is being maintained between 8-9 m and digging height of the excavators are compatible with bench height
3m	Total area covered under excavation/pits	181.46 Ha	159.0 На
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil

30	Total area put in use under different heads at the end of year		Actual area put in use at the end of Mar 2021 1.current working (O/C) = 156.1 Ha 2.occupied by plant, building, residential, roads & welfare buildings =14.24 Ha 3. other purpose(plantation and topsoil dump) = 26.64 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 5385802 tonnes 2017-18: 5385060 tonnes 2018-19: 5385510 tonnes 2019- 20: 5131770 tonnes 2020-21 - 2690000 tonnes	2016-17: 4150000 tonnes 2017-18: 3450000 tonnes 2018-19: 4425000 tonnes 2019-20: 3600000 tonnes 2020-21: 2690000 Te	
3q	General remarks of inspecting officers on method of mining etc.			Mining is carried out by fully mechanised method by deploying HEMM.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of topsoi proposed	Topsoil is stacked in the earmarked area.	

Remarks

of dumps a lease and outside ase area con of w.r.t. ate pit (Rule 16) c of active cive dumps. c of dead c of dumps cished.	02 No new dumps proposed to established in	Three dumps within the lease area Dumps developed outside UPL 01 02 No new dumps established in the year 2020-21	
w.r.t. tte pit (Rule 16) f of active live dumps. f of dead	outside UPL 01 02 No new dumps proposed to established in	UPL 01 02 No new dumps established in the year 2020-21	
ive dumps. of dead	02 No new dumps proposed to established in	No new dumps established in the year 2020-21	
of dumps	No new dumps proposed to established in	No new dumps established in the year 2020-21	
_	proposed to established in	in the year 2020-21	
	the year 2020- 21		
er ning wall cland drain ong dumps nere.	2020-21 - 350 meters	2020-21 - 150 meters	Around 150 meters length of retaining wall constructed against the proposal of 350 meters. Violation issued as per rule.
of ning wall cland drain ong dumps	- 350 meters	meters	
of ng ponds	No proposal	Nil	
ic its of			Retaining wall not constructed as per proposal. Violation issued as per rule.
1	ing wall land drain ong dumps of ng ponds ic	ing wall - 350 meters land drain Garland drain ong dumps - 660 meters of No proposal ng ponds ic ts of ting r on waste	ing wall - 350 meters meters land drain Garland drain Garland drain - 660 ong dumps - 660 meters meters of No proposal Nil ng ponds ic ts of ting r on waste

Propasals Actual work

Sl.No. Item

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2020-21- 1.0 Ha	2020-21 - 1.43 На	
6d	No. of saplings planted during the year		2020-21 - 2147 Nos.	
6f	Any other method of rehabilitation	No proposal	Nil	

6 g	Cost incurred on watch and care during the year	No	proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No	proposal	Nil
бi	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No	proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No	proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No	proposal	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No	proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No	proposal	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Nil	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	

7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	l		No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	removal of	Topsoil removed seperately. Partly used for plantation and remaining quantity is stacked in the dump.	
d8	Concurrent use or storage of topsoil	Utilising for plantation	Partly used for plantation and remaining quantity is being stacked.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		2020-21 - 2147 Nos. in 1.43 Ha	
8g	Survival rate	No proposal	80%	
8h	Water sprinkling on roads to control airborne dust	to be provided for dust	01 no. of 30 KL water tanker & 01 no. of 20 KL water tanker engaged for water sprinkling on haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is done in the 7.5m safety zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted as per rule	Submitted in time	
9b	b Scrutiny of Manager-KVS Annual return Sarma, Mining for information Engineer- on Mining G.Narendra, Engineer, Geologist- Geologist and P.Kumara Manager Raghavendra		Manager-Sri.KVS Sarma, Mining Engineer- Sri. G.Narendra, Geologist- Sri. P.Kumara Raghavendra	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	= 174 Ha 2.occupied by plant,	Same as submitted
9d	Scrutiny of Annual return on afforestation	2147 Nos.	Broadly as submission and same quantity is verified in afforestation register maintained.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	reported as	Total depreciation are not matching with the cost per tonne calculation. Advised to correct the annual returns since it has been referred back by the MMS division.
9h	Scrutiny of Annual return on fixed assets	reported by the lessee in annual returns is	Fixed assest could not be verified. High depreciation value reported since cement plant cost is included in the fixed assets. Advised to correct the annual returns since it has been referred back by the MMS division.

9k Scrutiny of Excavator - 03 All proposed machineries

Annual return on Nos. found in the mining Dumpers - 7 mining area.

machineries Nos.

Drill machine

- 01 No. Dozer - 1 No. Explosive Van

- 1 No.

Water Tanker -

lNo.

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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	

MCDR17 Rule 11(1) 21-SEP-21

Date: (MADHU SUDHAN YADAV M)

Indian Bureau of Mines