## INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

## MCDR inspection REPORT

Mine code : 38APR04008

## Hyderabad regional office

	(	Officer and ID No.	•	MUZJ / MADIIO SODIAN	IADAV M
	(ii)	Designation	:	Assistant Controller M	ine
	(iii)	Accompaning mine Official with Designation	:	Shri K.V.S. Sharma Min	e Manager
	(iv)	Date of Inspection	:	16/01/2020	
	(v)	Prev.inspection date	:	24/10/2019	
		PAF	ιT-	I : GENERAL INFORMATI	ION
1.	(a)	Mine Name	:	ZUARI	
	(b)	Registration NO.	:	IBM/996/2011	
	(c)	Category	:	A Fully Mechanised	
	(d)	Type of Working Postal address	:	Opencast	
	(e)	State	:	ANDHRA PRADESH	
		District	:	CUDDAPAH	
		Village	:	VALASAPALLI	
		Taluka	:	KAMALAPURAM	
		Post office	:	KRISHNA NAGAR	
		Pin Code	:	516311	
		FAX No.	:	08563 - 275106	
		E-mail	:	SK.TIWARI@HEIDELBERGC	EMENT
		Phone	:		
	(f)	Police Station	:	YERRAGUNTLA	
	(g)	First opening date	:	14/05/1982	
	(h)	Weekly day of rest	:	SUN	
2.		ess for espondance	:	M/S ZUARI CEMENT KRISHNA NAGAR, YERRAGU CUDDAPAH DIST-516 311	NTLA
3.	(a)	Lease Number	:	APR0023	
	(b)	Lease area	:	656.68	
	(C)	Period of lease	:	20	
	(d)	Date of Expiry	:	14/05/2022	
4.	Miner	ral worked	:	LIMESTONE	Main

(i) Name of the Inspecting : MQ29 ) MADHU SUDHAN YADAV M

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

5.	Name	and	Address	of	the	

Les	see	:	ZUARI	CEME	ENT			
			HALL JEEVA URBAN Phone FAX	NBHEE KARN :0805	EMANA JATAK 52076	GAR A 10	) BANGLOI	RE

- 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/ : Termination date		26/03/2012				

б.	Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988 Fresh under rule 22 MCR1960 Modif.of approved Mining Plan Modif.of approved Mining Plan Modif.approved Mining Scheme MP review under 17(1) MCR 2016	19/12/1996 26/06/2001 11/10/2004 22/08/2005 15/11/2007 05/01/2017
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### PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2		Gl Scale: 536.12 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	121.12 Ha	
le	Balance reserve as on 01/04/20	No proposal	Proved (111): 327.56 Million Tonnes as on 01/04/2018	
lf	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1509-2629, E504-1726	N1800-2907, E310-1726	
2b	in topsoil, overburden and	in the proposed	Top soil of an average thickness 1.5 mtr and 10mtr width and no OB mineral in the present working area	
2c	Stripping ratio or ore to OB ratio	Not applicable	Not applicable	
2d	Quantity of topsoil generation in m3	1,19,457 Cum	72,435 Cum (Till Dec 2019)	

2e	Quantity of overburden generation in m3	Not applicable	Not applicable
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Deviation found in the developmen area w.r.t to the proposal made the approved mining plan.	Submitted Modified Mining Plan for changes in the Developmental area

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	53,83,530 Tonnes	2532979 ton. (til Dec'2019)	1
3c	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.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	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 machine, dia 150 mm, staggered v- pattern with spacing of 8 m and burden 5m and depth 9.5m, holes charged with ANFO and slurry explosives. Using ultra- modern detonators like NONEL. MCD: 125kg.	Drilling machine, dia 150 mm, staggered v- pattern with spacing of 8 m and burden 5m and depth 9.5m, holes charged with ANFO and slurry explosives. Using ultra-modern detonators like NONEL. MCD: 125kg
3k	Provision of mining machineries in mineral benches	Combination of 7.2 Cu.m shovel and 35 T $\&$ 60 T dumpers for excavation and transportation	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.50 meters thickness of topsoil and 9 meters height of limestone bench	1.50 meters thickness of topsoil and 9 meters height of limestone bench
3m	Total area covered under excavation/pits	148.94 Ha	154.40 Ha
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	area put in	As per proposed total area put in use at the end of Dec 2019 1.current working (O/C) = 154.40 Ha 2.occupied by plant, building, residential, roads & welfare buildings =14.240 Ha 3. other purpose( plantation and topsoil dump) = 26.08 Ha
3р	Production of ROM mineral during the last five year period as applicable	2015-16: 5385375 2016-17: 5385802 2017-18: 5385060 2018-19: 5385510 2019-20: 5383530	2015-16: 3455001 2016-17: 4150000 2017-18: 3450000 2018-19: 4425000 2019-20: 2532979(till Dec 2019)
3q	General remarks of inspecting officers on method of mining etc.	Proposed area of excavation is 148.94 Ha	Area covered for excavation was increased 154.40 Ha. Submitted Modified Mining Plan for changes in the excavation area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	-		
4b	Location of topsoil, OB and mineral reject dumps	N2400-2567 & E1516-1684	Work done as per proposal	No site deviation found during Inspection.

4c	Number of dumps within lease area and outside of lease area	3	3	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N2400-2567 & E1516-1684	Work done as per proposal	Top doil dump proposed outside of UPL.
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	1	1	
4g	Number of dumps established.		3 top soil dump established	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall was proposed	Retaining wall not constructed as per proposal.	Retainig wall not constructed and the same is proposed in the Modified Mining Plan.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall was proposed in the plan period	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Retaining walll and garland drain is proposed to be carried out in the Modified Mining Plan period.

# 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 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 No proposal Nil fully reclaimed and rehabilitated
5e General remarks of inspecting officers on backfilling and reclamation etc.

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).	Annual report to be sent	Submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
бс	afforestation done (ha).	No proposal	Nil	
6d	No. of saplings planted during the year	No proposal	Nil	
бе	Cumulative no .of plants	No proposal	Nil	
6f	Any other method of rehabilitation	No proposal	Nil	
бg	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	
бі	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)	Proposal submitted for air, water and noise monitoring	Monitoring carried out as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation carried out along the lease boundary near the view point area.

Mineral Conservation:

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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for sorting	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		

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	stacked in	Using for plantation and stacking	
8b	Concurrent use or storage of topsoil	For plantation purpose	Top soil is used for plantation purposes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	No waste is generated in the mine.
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)	Proposed Plantation: 1500	1165 Sapling Planted till end of Dec 2019
8g	Survival rate		80%
8h	Water sprinkling on roads to control airborne dust		01 no. of 30 KL water tanker & 01 no. of 20 KL water tanker engaged and water sprinkling arranged on middle of haul road
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

# Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns			
9b	Annual return Mining for information Engineer -		Mining Engineer - Sri. S. Raghuram Geologist - Sri. P.Raghavendra Kumar	
9c	5		submitted in the Review	

9d	Scrutiny of Annual return on afforestation		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	is 4.425	As per submission
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost reported as Rs. 175.59/-	
9h	Scrutiny of Annual return on fixed assets		
9k	Scrutiny of Annual return on mining machineries		Shovel, dumper, road grader, water sprinkler, drill machine are provided.

Details of violations observed during current inspection and compliance position of violation pointed out							
	Violation observed Show couse position						
Rule 1	NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on		
MCDR17	Rule 11(1)	08/11/2019	26/05/2020				
MCDR17	Rule 36(1)	08/11/2019	26/05/2020				

Date :

### (MADHU SUDHAN YADAV M)

Indian Bureau of Mines