

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/NLG/LST-7/HYD

**Mine code :** 38APR14008

- (i) Name of the Inspecting : S11 ) SHAILENDRA KUMAR  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri N Hari Prasad Rao Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 18/12/2019
- (v) Prev.inspection date : 14/03/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : SITAPURAM-I
- (b) **Registration NO.** : IBM/996/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TELANGANA
- District : NALGONDA
- Village : DONDAPADU
- Taluka : KODAD
- Post office : DONDAPADU
- Pin Code : 508246
- FAX No. : 08683-235229
- E-mail : N.HARPRASADRAO@ZCLTD.COM
- Phone : 08683-246721
- (f) **Police Station** : HUZURNAGAR
- (g) **First opening date** : 09/11/1993
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SITAPURAM,DONDAPADU VILLAGE  
KODAD TQ,DONDAPADU POST-508246  
NALGONDA DISTRICT
3. (a) **Lease Number** : APR0478
- (b) **Lease area** : 558.71
- (c) **Period of lease** :
- (d) **Date of Expiry** : 11/11/2012
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 : Suhil Kumar Tiwari  
 Zuari Cements Adventz  
 center Cubbon Road BANGLORE  
 URBAN KARNATAKA  
 Phone:  
 FAX :

Agent : G Gopala Krishna Murthy  
 Zuari cements sitapuram  
 works, Dondapadu village  
 NALGONDA TELANGANA  
 Phone:  
 FAX :

## Mining Engineer

Name : Madhu babu,Full Time  
 Qualification :  
 Appointment/ : 19/06/2018  
 Termination date

## Geologist

Name : K Jaggannadha Rao,Full Time  
 Qualification :  
 Appointment/ : 19/09/2018  
 Termination date

## Manager

Name : N Hari Prasad  
 Qualification :  
 Appointment/ : 17/07/2014  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	14/11/1996
		Mining Scheme rule 12 MCDR1988	19/10/2000
		Renewal under rule 22 MCR1960	12/11/2003
		Mining Scheme rule 12 MCDR1988	07/04/2005
		Modif.of approved Mining Plan	26/10/2006
		Mining Scheme rule 12 MCDR1988	06/05/2009
		MP review under 17(1) MCR 2016	09/12/2016
		MP review under 17(1) MCR 2016	14/12/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to carry out drilling of 12 Core Boreholes during 2018-19	Lessee has reported 10 Core Boreholes.	No comments
1b	Exploration over lease area for geological axis 1 or 2	---	391 ha is under G1 level. 51.71 ha under G2 level 43.94 ha under G3 level 282.91 ha under G4 level	The lessee has proposed to cover the entire lease area by the end of present plan period i.e. 31.3.2024 to bring the entire potentially mineralised zone under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	Lessee has reported about Rs,12 Lakh rupees as expenditure towards exploration.	No comments
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	The remaining are under G2 is 51.71 ha G3 is 43.94 ha G4 is 282.91 ha	No comments
1e	Balance reserve as on 01/04/20	---	The reserves/resources as on 1.4.2019 are as follows Reserves - 196 Million tonnes Remaining Resources - 263 Million tonnes	No comments
1f	General remarks of inspecting officers on geology, exploration etc	Nil	None	The lessee has carried out 10 Core boreholes against the proposal of 12. However, the remaining have been drilled in the programme year 2019-20.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to develop the pit No.1 between gridlines N 394199 - E 1862534 with five benches.	The same was observed during the inspection.	No comments
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to work in second and third benches in ore. during 2018-19. There is no Overburden. The topsoil generated is being used for plantation.	The same was observed during the inspection.	No comments
2c	Stripping ratio or ore to OB ratio	Nil	Nil	No comments
2d	Quantity of topsoil generation in m3	There was no proposal for topsoil generation.	During the inspection and verification of records it was observed that the lessee company has generated 1000 Cu.m of topsoil during 2018-19. A violation letter was issued for the same	Violation letter has been issued for non reporting of topsoil generation.
2e	Quantity of overburden generation in m3	Nil	None	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	None	No comments

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to work from Pit No.1 during 2018-19	Mine is being worked as per the approved proposal.	No comments

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3b	Quantity of ROM mineral production proposed	1.59 Million tonnes	0.62 Million tonnes. The lessee has reported that due to less market demand production was on lesser side.	No comments
3c	Recovery of sailable/usable mineral from ROM production	Nil	None	The lessee company is utilising the entire limestone production for its captive cement plant.
3d	Quantity of mineral reject generation	Nil	None	No comments
3e	Grade of mineral rejects generation and threshold value declared.	Nil	None	No comments
3f	Quantity of sub grade mineral generation.	Nil	None	No comments
3g	Grade of sub grade mineral generation	Nil	None	No comments
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	None	No comments
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	None	No comments
3j	Provision of drilling and blasting in mineral benches	It was proposed work with wagon drilling and blasting in the benches.	During the inspection it was observed that Wagon drill of 115 dia being used for drilling with a blast hole dia of 150 mm and spacing of 6 meters.	No comments
3k	Provision of mining machineries in mineral benches	It was proposed to use HEMM in the mineral benches for excavating and transporting of limestone.	The lessee is using a Hydraulic shovel and Back hoe of different capacities and dumpers for excavation and transporting the limestone of 0.62 million tonnes.	No comments

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to work with a bench height of 9 meters.	The lessee is working with the proposed height and compatible with the maximum height of the excavators deployed.	No comments
3m	Total area covered under excavation/pits	---	119.5 ha	No comments
3n	Ore to OB ratio for the pit/mine during the year.	Nil	None	No comments
3o	Total area put in use under different heads at the end of year	--	The are under different heads is as follows Mining - 71.6 ha Infrastructure - 16.55 ha Green belt purpose - 31.35 ha	No comments
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 0.96 Million tonnes 2015-16 - 0.96 Million tonnes 2016-17 - 0.96 Million tonnes 2017-18 - 1.54 Million tonnes 2018-19 - 1.55 Million tonnes	2014-15 - 0.85 Million tonnes 2015-16 - 0.86 Million tonnes 2016-17 - 0.95 Million tonnes 2017-18 - 1.0 Million tones 2018-19 - 0.64 Million tonnes	No comments
3q	General remarks of inspecting officers on method of mining etc.	Nil	None	The Mining operations are being carried out as per the proposals made in the approved document.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	None	No comments
4b	Location of topsoil, OB and mineral reject dumps	Nil	None	No comments

4c	Number of dumps within lease area and outside of lease area	Nil	None	No comments
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	None	No comments
4e	Number of active and alive dumps.	Nil	None	No comments
4f	Number of dead dumps.	Nil	None	No comments
4g	Number of dumps established.	Nil	None	No comments
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	None	No comments
4i	Length of Retaining wall or garland drain all along dumps	Nil	No comments	No comments
4j	Number of settling ponds	Nil	None	No comments
4k	Specific comments of inspecting officer on waste dump management	Nil	None	No comments

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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.	Nil	None	No comments
5b	Area under backfilling of mined out area	Nil	None	No comments
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	The lessee has generated about 1000 Cum of topsoil duirng 2018-19.using the same for plantation purpose.There was no proposal for it.	A violation letter was issued for the same.

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

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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).	--	The lessee has submitted the Annual report on protective measures for environment for to this office	No comments
6b	Area available for rehabilitation (ha) .	Nil	None	No comments
6c	afforestation done (ha).	1500 No.s	1500 No.s	No comments
6d	No. of saplings planted during the year	1500	1500	No comments
6e	Cumulative no .of plants	--	125645 no.s	No comments
6f	Any other method of rehabilitation	Nil	None	No comments
6g	Cost incurred on watch and care during the year	--	Rs.2,00,000/-	No comments
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	None	No comments
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	None	No comments



6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	None	No comments
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	None	No comments
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	None	No comments
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	None	No comments
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	None	No comments
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	None	No comments
6p	Compliance of environmental monitoring (core zone and buffer zone)	--	The lessee is carrying out quarterly monitoring of environmental monitoring in both buffer and core zone and the values are within permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	None	No comments

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	None	No comments
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	None	No comments
7c	Different grade of mineral sorted out at mines.	Nil	None	No comments
7d	Any beneficiation process at mines	Nil	None	No comments
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	None	No comments

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There was no proposal for generation of topsoil duirng 2018-19.	However, lessee has reported 1000 Cu.m of topsoil duirng 2018-19 being used for plantation purpose.	No comments
8b	Concurrent use or storage of topsoil	--	The topsoil generated is used for plantation purpose.	No comments
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	None	No comments
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	None	No comments

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	None	No comments
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	There are lot of shrubs and vegetation other than plantation made by the lessee company.	No comments
8g	Survival rate	70%	70%	No comments
8h	Water sprinkling on roads to control airborne dust	It was proposed by the lessee to use water sprinkling for dust suppression.	Duirng the inspection it was observed that no dust suppression measures were taken.	A violation letter was issued to lessee for compliance of the same.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	None	The lessee is maintaining the aesthetic beauty satisfactorily. Further, lessee is carrying out environmental tests regularly and all parameters are under permissible limits.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	--	The lessee is submitting the Monthly and Annual returns regularly.	No comments
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	--	It was observed from the Annual return 2018-19 that the lessee has employed Sri Madhu Babu as Mining Engineer and Sri K Jagganadha Rao as Geolgist	No comments

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	--	Area under Mining - 71.6 ha Area under Infrastructure - 16.55 ha Area under green belt - 31.35 ha	No comments
9d	Scrutiny of Annual return on afforestation	--	2400 no.s	No comments
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	None	No comments
9f	Scrutiny of Annual return on ROM stock and/or graded ore	--	As per the Annual return 2018-19 lessee reported 0.63 million tonnes of limestone	No comments
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	--	The ex-mine value reported by lessee is Rs.212.32	No comments
9h	Scrutiny of Annual return on fixed assets	--	The value of fixed assets reported by lessee in Annual returns is 34 crore rupees.	No comments
9k	Scrutiny of Annual return on mining machineries	--	As per the Annual return, following mining machinery was reported: 1. Hydraulic shovel -1 2. Back hoe -(5.8 Cum & 1.5 Cum) -2 3. Dumpers - 6 4. Wagon drill - 1 5. Explosive van - 1 6. Water tanker -1 7. Front end loader - 1	No comments

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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
MCDR17	Rule 11(1)	19/12/2019			
MCDR17	Rule 33	19/12/2019			
MCDR17	Rule 40	19/12/2019			
	Rule 45(7)	19/12/2019			

**Date :**

(**SHAIENDRA KUMAR**)

Indian Bureau of Mines