

**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 : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri N.Hari Prasad Rao, Mines Manager & Sri. Jaganath R
Official with
Designation
- (iv) Date of Inspection : 22/10/2020
- (v) Prev.inspection date : 18/12/2019

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** : **SITAPURAM, DONDAPADU VILLAGE**
correspondance : **KODAD TQ, DONDAPADU POST-508246**
: **NALGONDA DISTRICT**
3. (a) **Lease Number** : **APR0478**
- (b) **Lease area** : **558.71**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **11/11/2042**
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	2019-20 - 13 Boreholes 2020-21 - 10 Boreholes	2019-20 - 13 Boreholes 2020-21- 10 Boreholes	
1b	Exploration over lease area for geological axis 1 or 2	----	G1 - 487.32 Ha G2 - 51.71 Ha G3 - 43.94 Ha	Balance area of 95.65 Ha to be covered under G1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	---	2019-20 - Rs.131250/- 2020-21 - Rs.937500/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	The remaining area under G2 - 51.71 Ha & G3 - 43.94 Ha.	
1e	Balance reserve as on 01/04/20	---	Proved reserves as on 31/09/2020 - 194.577 million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has proposed to cover the entire lease under G1 level of exploration by the end of the plan period i.e., 31.03.2024.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 1864952 to E 1865296 N 391484 to N 393571 & E 1861931- E 1862046 N 392812 - 392897	Work done within the proposed co-ordinates.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil and OB benches proposed. Mineral benches proposed to work.	Mineral benches developed.	

2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
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 mining area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	2019-20 - 1.59 million tonnes	2019-20 - 1.07 million tonnes	Lessee has reported that proposed production was not achieved due to less market demand.
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.	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 mineral 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 & depth of 10 m, spacing of 6 meters and burden of 4 meters.
3k	Provision of mining machineries in mineral benches	Proposed to HEMM in mineral benches for excavating and transporting of limestone.	Hydraulic shovel and back hoe for excavation and dumpers for transporting limestone.
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 9m.	Digging height of the excavator is compatible for proposed bench height of 9m.
3m	Total area covered under excavation/pits	83.66 Ha	72 Ha
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil
3o	Total area put in use under different heads at the end of year	199.13 Ha	123. 2 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 0.96 Million tonnes 2016-17 - 0.96 Million tonnes 2017-18 - 1.54 Million tonnes 2018-19 - 1.55 Million tonnes 2019-20 - 1.59 Million tonnes 2020-21- 1.59 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 2019-20 - 1.07 Million tonnes 2020-21- 402581 Tonnes (Till sept'20)

3q	General remarks of inspecting officers on method of mining etc.	Opencast mechanised mining method with deephole drilling and blasting technique is being carried out.
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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)	No proposal	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			No topsoil, overburden and mineral rejects are generated in the mining area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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 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 Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	3.0 Ha	3.3 Ha	
6d	No. of saplings planted during the year	1500 Nos.	1650 Nos.	
6e	Cumulative no .of plants	---	54660 Nos. till 2019-20.	
6f	Any other method of rehabilitation	No proposal	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
6i	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)Afforestation on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	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
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2019-20.	
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	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	2019-20 - 1070340 Tonnes of ROM dispatched to plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	Not applicable	Nil	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			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
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
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)	---	1650 Nos. saplings planted in the year 2019-20 and cumulative of 54660 Nos. of saplings planted till 2019-20.	
8g	Survival rate	80%	85%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water tanker is provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Greenbelt development is well developed within the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	To be submitted	Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri.Hariprasad Mining Engineer - Sri. Madhu Babu Geologist - Sri. Jaganath Rao	Manager - Sri.Hariprasad Mining Engineer - Sri. Madhu Babu Geologist - Sri. Venkatesh Veeramachinani	Sri. Venkatesh Veeramachinani, Geologist was appointed on 29.08.2020.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining - 72 ha Area under Infrastructure - 16.55 ha Area under green belt - 34.65 ha	Same as submitted.	
9d	Scrutiny of Annual return on afforestation	16502 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	As per the Annual return 2019-20 lessee reported 0.34 million tonnes of limestone	---	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine value is Rs.250.06/-	Rs.250.06/-	
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.356375179/-	---	

9k Scrutiny of 1. Hydraulic Machineries found in the
Annual return on shovel -1 mining area.
mining 2. Back hoe -
machineries (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

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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines