INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Mining Plan Modification 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) Accompaning mine : Sri N.Hari Prasad Rao, Mines Manager & Sri. P.R. Mishr

Official with Designation

(iv) Date of Inspection : 17-DEC-21

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

(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-NOV-93

(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-NOV-42

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-JUN-18

Termination date

Geologist

Name : K Jaggannadha Rao, Full Time

Qualification :

Appointment/ : 19-SEP-18

Termination date

Manager

Name : N Hari Prasad

Qualification :

Appointment/ : 17-JUL-14

Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 14-NOV-96 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 19-OCT-00 Renewal under rule 22 MCR1960 12-NOV-03 Mining Scheme rule 12 MCDR1988 07-APR-05 Modif.of approved Mining Plan 26-OCT-06 Mining Scheme rule 12 MCDR1988 06-MAY-09 MP review under 17(1) MCR 2016 09-DEC-16 MP review under 17(1) MCR 2016 14-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration:

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2020-21 - 10 Boreholes 2021-22 - 09 Boreholes	2020-21 - 10 Boreholes 2021-22 - 09 Boreholes	07 Nos. boreholes proposed for the year 2022-23 are drilled in the year 2021-22 itself.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Rs.2765000/- for drilling and analysis of 28 nos. of boreholes	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G1 - 538.90 Ha G3- 231.33 Ha	Lessee has proposed 08 Nos. boreholes in the year 2021-22 to bring the entire lease area into G1 level of exploration.
1e	Balance reserve as on 01/04/20		Proved reserves as on 31/10/2021 - 269.781 million Tonnes	Reserves and Resources are re- estimated considering the new boreholes drilled in the lease area.
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has competed the exploration proposed till 2023-24as per the earlier approved Review of Mining Plan. In the Modified Mining Plan submitted lessee has proposed to drill 08 Nos. boreholes in the year 2021-22 to bring the entire area into G1 level of exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1865237	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	mineral production		2020-21 - 994649 Tonnes 2021-22 - 639620 Tonnes (till Nov'21)	
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 mineral benches	Wagon drill being used for drilling with a blast hole dia of 150 mm depth of 9 m, spacing of 6 meters and burden of 4 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	It was proposed to use wagon drills, exvators & dumpers for drilling, loading & transporting of ore to crushing plant.	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	During inspection it was noticed that the bench height is being maintained not more than 9 m and digging height of the excavators are compatible with bench height.	
3m	Total area covered under excavation/pits	83.66 На	78.14 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	199.13 На	181.02 Ha	
3p	Production of ROM mineral during the last five year period as applicable	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	2017-18 - 1.0 Million tones 2018-19 - 0.64 Million tonnes 2019-20 - 1.07 Million tonnes 2020-21 - 0.9 million tonnes 2021-22 - 639620 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Mining is carried out in common lease boundary with Sitapuram Limestone Mine-2 by obtaining permission from DGMS.
Sol	id Waste Manage	ement - Dumpir	ng:	

Actual work

Remarks

Propasals

Sl.No.

Item

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	Nil	1. No OB and mineral rejects found in the lease area. 2. Topsoil found as a thin layer, which is scrapped/dozed and utilised for plantation purpose.
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	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 fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area of the mine is excavated 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 in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	3.0 Ha	3.6 На	
6d	No. of saplings planted during the year	1500 Nos.	1800 Nos.	
6е	Cumulative no .of plants		57960 Nos. till (Nov'21).	

6f	Any other method of rehabilitation	No proposal	Nil
6g	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
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)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	Entire ROM to be utilized directly for captive purpose, hence no grade wise sorting is proposed within the ML.	Entire ROM utilized directly for captive purpose.	
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
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)	It was proposed to plant about 1500 saplings during the year 2020-21.	2020-21 and cumulative of 57960 Nos. of saplings planted till	
8g	Survival rate	80%	85%	
8h		to be provided	Water tanker & sprinklers provided for dust supression.	
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
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	Mining Engineer -	Manager - Sri.Hariprasad Mining Engineer - Sri. Madhu Babu Geologist - Sri. V. Venkatesh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining - 78.14 ha Area under Infrastructure	Same as submitted.	

9d	Scrutiny of Annual return on afforestation	1800 Nos.	Broadly as per 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			Same is verified in the Production and despatch register maintained.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.275.33/-	Total depreciation and over head cost 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	The value of fixed assets reported by the lessee in annual returns is Rs.39/-	Fixed assest couldn't be verified.
9k	Scrutiny of Annual return on mining machineries	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	Machineries found in the mining area.

PAGE: 14

Details of violations observed during current violation pointed out	inspection and compliance position of	
Violation observed	Show couse position	

Date: (MADHU SUDHAN YADAV M)

Issued on Compliance on

Rule NO.

Indian Bureau of Mines

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