

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 38APR14008

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SRI N.HARIPRASAD, GM(MINES)**
Official with
Designation
- (iv) Date of Inspection : 17-OCT-23
- (v) Prev.inspection date : 29-OCT-18

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-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 : VIMAL KUMAR JAIN
 ZUARI CEMENTS LIMITED THE
 PALM DRIVE, TOWER A FLAT
 NO.302, SECTOR 66, GURGAON.
 GURGAON HARYANA
 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 : V VENKATESH, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ :
 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 such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal.	Nil	Entire mineralised area has been explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Nil	Entire mineralised area has been explored under G1 level.
1e	Balance reserve as on 01/04/20	As per the approved document dated 11.01.2022, the Limestone reserves are 269.34 mil.t	due to depletion/addition over the period of time the updated reserves as on dated 01.04.2023 are limestone: 267.94 milt.t.	grade Cao%- 46.02
1f	General remarks of inspecting officers on geology, exploration etc		The rock type in the lease- hold area (lease- 1) of sitapuram limestone mine belongs to Palnad (Narji) Limestone stage of Jamalamadugu series in kurnool system.The limestone is exposed in the low lying areas,like the water course depressions and at few places.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	two pits between grid location N1860000-N1860350, E394300-E3948100 and N1860000-N1860350, E394300-E3948100	two pits are being developed between the proposed grid location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no top soil & OB generation are envisaged. benches in mineral are proposed.	benches in mineral are maintained.	
2c	Stripping ratio or ore to OB ratio	Not applicable	Nil	No waste generation is envisaged.
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		development is carried out by opencast mining method as proposed.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	1.60 mil.t. during the year 2022-23.	0.794 mil.t.	due to less requirement at captice cement plant.

3c	Recovery of sailable/usable mineral from ROM production	1.60 mil.t.	0.794 mil.t.
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	Mechanised.	Mechanised
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 is proposed.	drilling & blasting is carried out.
3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation.	excavator and dumper combination is deployed for excavation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m	maintained.
3m	Total area covered under excavation/pits	90.363 ha	86.61 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	207.841 ha	188.99 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1.59 mil.t. 2019-20: 1.59 mil.t. 2020-21: 1.59 mil.t. 2021-22: 1.59 mil.t. 2022-23: 1.6 mil.t.	2018-19: 1.24 mil.t. 2019-20: 1.07 mil.t. 2020-21: 0.99 mil.t. 2021-22: 1.09 mil.t. 2022-23: 0.794 mil.t.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out from one pit by opencast mining method as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no OB, top soil generation is envisaged.	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	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.	No proposal.	Nil	

4f	Number of dead dumps.	No proposal.	Nil
4g	Number of dumps established.	No proposal.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil
4j	Number of settling ponds	No proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management		No OB/waste generation is envisaged.

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.	Not envisaged, as area is not matured for reclamation.
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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).	PMCP report to submitted before 1 st July.	submitted	
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	
6c	afforestation done (ha).	1.5 ha during the year 2022-23.	1.5 ha	
6d	No. of saplings planted during the year	1500	1500	
6e	Cumulative no .of plants		59460	
6f	Any other method of rehabilitation	No proposal.	Nil	
6g	Cost incurred on watch and care during the year		Rs. 3943705	
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 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)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.	parameters are within the limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures were carried out as proposed.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed.	carried out	entire ROM (Limestone) of cement grade is used in the captive plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical.	mechanical.	
7c	Different grade of mineral sorted out at mines.	cement grade limestone.	cement grade limestone.	
7d	Any beneficiation process at mines	No proposal.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		entire ROM (limestone) of cement grade is used at 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)	1500 nos	1500 nos	
8g	Survival rate		85%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul roads for dust suppression is proposed.	carried out	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	aesthetic beauty in and around the mines area is maintained.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017.	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	(i) Graduate Mining Engineer 3, (ii) Diploma Mining Engineer 1, (iii) Geologist 1	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings 86.110 ha, Occupied by plant, buildings, residential, welfare buildings and roads 52.620 ha etc.,	found to be in order.	
9d	Scrutiny of Annual return on afforestation	1500 nos	found to be in order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	found to be in order.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is Nil.	found to be in order.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs.271.54/t	Ex-mine price Rs.271.54/t
9h	Scrutiny of Annual return on fixed assets	Rs. 93910192/-	Rs. 93910192/-
9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.900 CUM 1, DUMPER 30.000 TONNE 2, DUMPER 40.000 TONNE 3 etc.,	found to be in order.

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 :**(RAMKISHAN R)**

Indian Bureau of Mines