

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

Mining Plan Modification REPORT

Hyderabad regional office

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

Mine code : 38APR14023

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri.N.Hariprasad Rao, GM(Mines)
Official with
Designation
- (iv) Date of Inspection : 17-OCT-23
- (v) Prev.inspection date : 31-OCT-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SITAPURAM LEASE- II**
- (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. : **08683235229**
- E-mail : **n.harprasadrao@zcltd.com**
- Phone : **08683235333**
- (f) **Police Station** : **SITAPURAM**
- (g) **First opening date** : **10-MAR-93**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **SITAPURAM, DONDAPADU**
correspondance : **MELLACHERVU MANDAL**
: **NALGONDA DISTRICT-508246**
3. (a) **Lease Number** : **APR0068**
- (b) **Lease area** : **776.49**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **02-MAY-05**
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
 SITAPURAM WORKS DONDAPADU
 SURYAPET DISTRICT NALGONDA
 TELANGANA
 Phone: 08683235107
 FAX :

Mining Engineer

Name : Ramesh Kumar, Full Time
 Qualification : B Tech Mining
 Appointment/ : 10-JUN-18
 Termination date

Geologist

Name : M.Ramakrishna Naidu, Full Time
 Qualification : Msc geology
 Appointment/ :
 Termination date

Manager

Name : N.HARIPRASAD RAO
 Qualification : BTECH MINING
 Appointment/ : 17-JUL-14
 Termination date

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|---|---|--------------------------------|-----------|
| 6. Date of approval of Mining Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 30-JUL-10 |
| | | Renewal under rule 24 MCR1960 | 13-SEP-13 |
| | | MP review under 17(1) MCR 2016 | 09-DEC-16 |
| | | MP modif under 17(3) MCR 2016 | 09-SEP-20 |
| | | MP review under 17(1) MCR 2016 | 11-JAN-22 |
| | | MP review under 17(1) MCR 2016 | 11-JAN-22 |

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 379.05 mil.t | due to depletion/addition over the period of time the updated reserves as on dated 01.04.2023 are limestone: 379.06 milt.t. | Cao%-47.62 |
| 1f | General remarks of inspecting officers on geology, exploration etc | | No major structural disturbances are noticed in mining lease area. The beds are generally horizontal with the dip amount varying from 5 to 10 degrees in south eastern direction. Locally at places the dip is of rolling type with amount varying between 20 to 30 degrees in different directions. | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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| 2a | Location of development w.r.t.lease area | N1859900- N1860100 and E394600- E394800 one pit | no development has been caried out during the year 2022-23.. |
| 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 | 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 dvelopment work has been carried out during the year 2022-23. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|-------------|--|
| 3a | Number of pit proposed for production | one | Nil | |
| 3b | Quantity of ROM mineral production proposed | 150750 t during the year 2022-23. | Nil | due oto less demand at captive cement plant. |
| 3c | Recovery of sailable/usable mineral from ROM production | 150750 t | Nil | |
| 3d | Quantity of mineral reject generation | No proposal. | Nil | |

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| 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. | Nil |
| 3k | Provision of mining machineries in mineral benches | excavator and dumper combination is proposed for excavation. | Nil |
| 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 | 9.91 ha | 8.765 ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | No proposal. | Nil |

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|----|--|--|---|
| 3o | Total area put in use under different heads at the end of year | 23.62 ha | 21.95 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19: 0.599 mil.t. 2019-20: 0.59 mil.t. 2020-21: 0.03 mil.t. 2021-22: 0.03 mil.t. 2022-23: 0.15 mil.t. | 2018-19: 0.33 mil.t. 2019-20: Nil 2020-21: 7650 t 2021-22: Nil 2022-23: Nil |
| 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 | |

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| 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. |

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 ha during the year 2022-23. | 1 ha | |
| 6d | No. of saplings planted during the year | 1000 | 1000 | |
| 6e | Cumulative no .of plants | | 12212 | |
| 6f | Any other method of rehabilitation | No proposal. | Nil | |
| 6g | Cost incurred on watch and care during the year | | Rs. 325000 | |
| 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 | |

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| 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 | |

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| 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) | 1000 nos | 1000 nos |
| 8g | Survival rate | | 84% |
| 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. |

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. | |

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|----|---|--|-------------------------------|---|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | (i) Graduate Mining Engineer 1,(ii) 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 8.765 ha, Occupied by plant, buildings, residential, welfare buildings and roads 24.810 ha, etc., | found to be in order. | |
| 9d | Scrutiny of Annual return on afforestation | 1000 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 is Rs. 273.65/- | Ex-mine price is Rs. 273.65/- | Ex-mine price reported is for the dispatched quantity as production is nil. |
| 9h | Scrutiny of Annual return on fixed assets | Nil | Nil | |
| 9k | Scrutiny of Annual return on mining machineries | SHOVEL (HYDRAULIC) 2.800 CUM 1, DUMPER 30.000 TONNE 2 | 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