

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

MCDR inspection REPORT

Hyderabad regional office

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

Mine code : 38APR14023

- (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
Official with
Designation
- (iv) Date of Inspection : 18/12/2019
- (v) Prev.inspection date : 15/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SITAPURAM LEASE- II**
- (b) **Registration NO.** :
- (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 : **svclspm@zcltd.com**
Phone : **08683235333**
- (f) Police Station : **SITAPURAM**
- (g) First opening date : **10/03/1993**
- (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 : **02/05/2005**
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 : KRISHNA SRIVATSAVA
 ZUARI CEMENT LTD
 JEEVANBHEEMA NAGAR
 BANGALORE BANGALORE
 KARNATAKA
 Phone: 080-5207610
 FAX : 080-5207622

Agent : N. SITA RAMA RAO
 ZUARI CEMENT LIMITED (SRI
 VISHNU CEMENT WORKS)
 DONDAPADU, NALGONDA DIST.
 NALGONDA TELANGANA
 Phone: 08683 - 235333
 FAX : 08683 - 235229

Mining Engineer

Name : Y.MADHU BABU,Full Time
 Qualification : B.TECH MINING ENGG
 Appointment/ : 02/01/2009
 Termination date

Geologist

Name : V.B.K.PRABHAKARA RAO,Full Time
 Qualification : M.SC (GEO)
 Appointment/ : 19/01/1995
 Termination date

Manager

Name : D.SESHA REDDY
 Qualification : MSC(GEOLOGY) FCC
 Appointment/ : 14/10/2002
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 30/07/2010 |
| Plan/Scheme of Mining | | Renewal under rule 24 MCR1960 | 13/09/2013 |
| | | MP review under 17(1) MCR 2016 | 09/12/2016 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|--|
| 1a | Backlog of previous year | 78 Holes (2340 Mtr) 40 Holes(1200 Mtr) 40 Holes (1230 Mtr) | 58 Holes (2964 Mtr) 8 Holes (256Mtr) 11 Holes (442 Mtr) As reported by the lessee | During field inspection it was verified that only 77Nos. of borehole core logs were maintained against the proposal of 192 Nos. Boreholes from 2016-17 to 2019-20. |
| 1b | Exploration over lease area for geological axis 1 or 2 | (34 No's) 1020 mtr | Exploratory work was not carried out as per the proposal. | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Synergy GeotechPvt Ltd& JP Core Drilling. | Rs.68.50 Lacks as reported by the lessee. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | 437.79 Ha | Exploration work not carried out as per the proposal. | Exploration work for the remaining area to be submitted. |
| 1e | Balance reserve as on 01/04/20 | Nil | 56.49 Million Tons as on 01/04/2019 | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | During inspection it was observed no such exploration carried out as per the proposal. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|-------------|---|
| 2a | Location of development w.r.t.lease area | N 16 49' 8.1'' To 16 49' 9.0'' E 80 00' 47.2'' To 80 00' 54.9'' | Nil | Work not carried out due to Suspension of Mining Operations |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Nil | Nil | |
| 2c | Stripping ratio or ore to OB ratio | Nil | Nil | |

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|----|---|-----|-----|
| 2d | Quantity of topsoil generation in m3 | Nil | Nil |
| 2e | Quantity of overburden generation in m3 | Nil | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------|-------------|---|
| 3a | Number of pit proposed for production | 1 | 1 | |
| 3b | Quantity of ROM mineral production proposed | 600000 MT | Nil | No production during the year 2019-20 due to Suspension of Mining Operations. |
| 3c | Recovery of sailable/usable mineral from ROM production | No proposal | Not done | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Nil | Nil | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | Nil | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Nil | Nil | |

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|----|--|---|---|---|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil | Nil | |
| 3j | Provision of drilling and blasting in mineral benches | DTH Drilling | Nil | |
| 3k | Provision of mining machineries in mineral benches | HEMM (Shovel, Dumper, Drilling machine) | Nil | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Proposed height of benches - 9m | Height of benches are as per the proposal | |
| 3m | Total area covered under excavation/pits | 9.26 Ha | 8.60 Ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | No proposal for OB generation | No OB produced | |
| 3o | Total area put in use under different heads at the end of year | 12.96 Ha | 14.27 Ha. | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16 - 200025 MT 2016-17- 200025 MT 2017-18- 594990 MT 2018-19- 594990 MT 2019-20- 594990 MT | 2015-16 - 1,68,655 MT 2016-17- 1,77,225 MT 2017-18- 1,88,105 MT 2018-19- 3,33,101 MT 2019-20- Nil | No production during the year 2019-20 due to Suspension of Mining Operations. |
| 3q | General remarks of inspecting officers on method of mining etc. | | | No production during the year 2019-20 due to Suspension of Mining Operations. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|--|-------------|--------------------------------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | No Proposal | 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) | Outside UPL | No dump exists within the mine |
| 4e | Number of active and alive dumps. | 1 | 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 | | |

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 | |

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|----|---|-------------|-----|
| 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. | | |

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). | To be submitted | submitted | |
| 6b | Area available for rehabilitation (ha) . | No Proposal | Nil | |
| 6c | afforestation done (ha). | 0.464 Ha. | 0.65 Ha. | |
| 6d | No. of saplings planted during the year | 928 No's | 650 No's Up to (30.11.2019) | |
| 6e | Cumulative no .of plants | No proposal | 650 No's Up to (30.11.2019) | |
| 6f | Any other method of rehabilitation | No proposal | Nil | |
| 6g | Cost incurred on watch and care during the year | | | |

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|----|--|-------------|-----|
| 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) | 3 Times | 3 Times |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-------------|-------------|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 599991.6MT | Nil | No production during the year 2019-20 due to Suspension of Mining Operations. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | No proposal | Nil | |
| 7c | Different grade of mineral sorted out at mines. | No proposal | Nil | |
| 7d | Any beneficiation process at mines | No proposal | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | |

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) | 928 No's | 650 No's Up to (30.11.2019) |
| 8g | Survival rate | 90% | 80% |
| 8h | Water sprinkling on roads to control airborne dust | No proposal | Water sprinkling carried out to control dust |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

- 9a Status of submission of Monthly and Annual returns Annual returns submitted upto 2018-19. Monthly returns submitted upto Nov'19.
- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager Violation letter issued for non appointment of statutoary geologist under MCDR, 2017.
- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.
- 9d Scrutiny of Annual return on afforestation
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity)
- 9f Scrutiny of Annual return on ROM stock and/or graded ore
- 9g Scrutiny of Annual return on sale value, Ex. Mine price and production cost
- 9h Scrutiny of Annual return on fixed assets
- 9k Scrutiny of Annual return on mining machineries
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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) | 06/01/2020 | | | |
| MCDR17 | Rule 55(1)(3) | 06/01/2020 | | | |

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines