

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/ANP/L.ST-26/HYD

Mine code : 38APR02036

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri A.Suresh, Lessee
Official with
Designation
- (iv) Date of Inspection : 03/07/2019
- (v) Prev.inspection date : 07/09/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGARUR(4.311 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : **ANDHRA PRADESH**
District : **ANANTAPUR**
Village : **NAGARUR**
Taluka : **YADIKI**
Post office : **NAGARUR**
Pin Code : **515455**
FAX No. :
E-mail :
Phone :
- (f) Police Station : **YADIKI**
- (g) First opening date : **10/10/2006**
- (h) Weekly day of rest : **SUN**
2. Address for : **A.SURESH ,MINEOWNER,NEAR CHANDANA GATE**
correspondance : **RAYALACHERUVU(PO)-515455**
ANANTAPUR DT ANDHRAPRADESH
3. (a) Lease Number : **APR2451**
- (b) Lease area : **4.31**
- (c) Period of lease : **20**
- (d) Date of Expiry : **09/04/2026**
4. Mineral worked : **DOLOMITE** Associated
LIMESTONE Main

5. Name and Address of the

Lessee : A.SURESH
NEAR CHANDANAGATE
RAYALACHERUVU (V) TADIPATRI
(M) ANANTAPUR ANDHRA
PRADESH
Phone:9440017581
FAX :

Owner : A.SUREH
NEAR CHANDANA GATE
RAYALACHERUVU(PO &V)
TADIPATRI(M) ANANTAPUR
ANDHRA PRADESH
Phone:
FAX :

| | | | |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 30/08/2005 |
| Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 13/10/2016 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|-----------------------------------|--|
| 1a | Backlog of previous year | 3 DTH Bore holes of 10m each in 2018-19 | No exploration carried out. | Exploration proposed in the year 2016-17(5 core bore holes), 2017-18(4 nos DTH bore holes) has also not been carried.Violation already issued. |
| 1b | Exploration over lease area for geological axis 1 or 2 | Entire lease area under G1 level by combining 2016-17,2017-18,2018-19 exploration proposal. | No exploration carried out. | Violation issued for 2016-17,2017-18,2018-19. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Details not available | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | 3 Ha | No exploration carried in 2018-19 | 1.311 Ha explored under G1 level. |
| 1e | Balance reserve as on 01/04/20 | 41000 tonnes (111 category) | 23180 tonnes (111 category) | 211 category resources-1000 tonnes |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Dolomite found on top of Limestone. Intrusive rock found within the lease. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|--|---------|
| 2a | Location of development w.r.t.lease area | Within the Mining Lease (E 802652 to E 802688, N 1656266 to N 1656310) | Within the Mining Lease (E 802652 to E 802688, N 1656266 to N 1656310) | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Only in mineral | Only in mineral | |

| | | | | |
|----|--|---------|-----------------------|--|
| 2c | Stripping ratio or ore to OB ratio | 1:0.93 | 1:0.71 | |
| 2d | Quantity of topsoil generation in m3 | 641 m3 | Nil | Mine already developed. |
| 2e | Quantity of overburden generation in m3 | 2673 m3 | 8000 tonnes / 3200 m3 | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Mechanised Mining Method is being practiced. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------|----------------|--|
| 3a | Number of pit proposed for production | One | One | |
| 3b | Quantity of ROM mineral production proposed | 10000 tonnes | 11250 tonnes | Production within the permitted limit of +20%. |
| 3c | Recovery of sailable/usable mineral from ROM production | 75% | 75% | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable | does not arise | |
| 3f | Quantity of sub grade mineral generation. | Not applicable | Nil | |
| 3g | Grade of sub grade mineral generation | Not applicable | does not arise | |
| 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 | Beneficiation not required. |
| 3j | Provision of drilling and blasting in mineral benches | Burden-1.5m, Spacing-2m, Bench height-3m Jack Hammer drill | Burden-1.5m, Spacing-2m, Bench height-3m Jack Hammer drill | |
| 3k | Provision of mining machineries in mineral benches | Excavator-0.9 m3-1 no Tippers-10 tonners-2 nos Fron end loader-1.7m3-1 no | Excavator-0.9 m3-1 no Tippers-10 tonners-2 nos Fron end loader-1.7m3-1 no | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 3 m | Yes suitable | |
| 3m | Total area covered under excavation/pits | 1.21 Ha | 1.21 Ha | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.93 | 1:0.71 | |
| 3o | Total area put in use under different heads at the end of year | 3.246 Ha | 2 Ha | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2014-15-Lapsed Period 2015-16-Lapsed Period 2016-17-10000 tonnes Limestone 2017-18-10000 tonnes Limestone 2018-19-10000 tonnes Limestone | 2014-15- 18050 tonnes Limestone 2015-16-30400 tonnes Limestone 2016-17-15320 tonnes Limestone 2017-18-21250 tonnes Limestone 2018-19-11250 tonnes Limestone | Lessee had not produced production, despatch, stock register for verification. After verification of office records violation to be issued. |

Solid Waste Management - Dumping:

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

| | | | | |
|----|--|---|--|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Proposed to maintain OB dump and mineral reject dump | OB dumping is being carried out separately | |
| 4b | Location of topsoil, OB and mineral reject dumps | Within the Lease | Within the Lease | |
| 4c | Number of dumps within lease area and outside of lease area | 4 nos | 3 nos | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Within the UPL. | Shifting of DUMP-1 under progress. | |
| 4e | Number of active and alive dumps. | 3 Nos | 3 Nos | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Proposal Retaining wall- 138mX1mX1m Garland Drain- 142mX1mX1m | Not constructed. | Violation under rules 11(1) pointed out. |
| 4i | Length of Retaining wall or garland drain all along dumps | Retaining wall- 138mX1mX1m Garland Drain- 142mX1mX1m | Not constructed | -do- |
| 4j | Number of settling ponds | No proposal | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | Violation under rules 11(1) pointed out for not constructing retaining wall and garland drain for the year 2016-17 to 2018-19. |

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. | Nil in 2018-19 | Nil. | Mineral is yet to be mined upto UPL. |

| | | | | |
|----|---|--|----------|--|
| 5b | Area under backfilling of mined out area | No proposal in Nil 2018-19 | | No proposal of backfilling of the Pit WP-4 was approved but during inspection the pit was found to be back filled by the waste rock of Dump-5. Violation u/r 11(1) issued. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Spreading for plantation and Storage in 2018-19 | Storage. | Top soil has not been stored at the demarcated place approved for storing but found to be dumped in the scattered manner. Violation issued under rule 36(3). |
| 5d | Total area fully reclaimed and rehabilitated | No proposal | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Mineral is yet to be exhausted. As on date of inspection no part of the mine is matured for 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 | Not submitted | |
| 6b | Area available for rehabilitation (ha) . | No proposal in 2018-19 | Nil | |
| 6c | afforestation done (ha). | 0.95 Ha during 2016-17 to 2020-21 | Nil | Violation issued u/r 11(1) |
| 6d | No. of saplings planted during the year | 100 nos in 2018-19 | Nil | Violation issued u/r 11(1) |

| | | | | |
|----|--|-------------|-----|---|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No proposal | Nil | Mineral yet to exhaust and Area not matured for backfilling. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No proposal | Nil | Mineral yet to exhaust and Area not matured for backfilling. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Mineral yet to exhaust and no part of the mine is matured for backfilling.Hence no rehabilitation work is done. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--------------|--------------|-------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 10000 tonnes | 10913 tonnes | |
| 7d | Any beneficiation process at mines | No proposal | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Benneficiation not warranted. |

Environment:

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

| | | | | |
|----|--|---|-----------------------|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Yes for spreading and storage. | Storage | Top soil has not been stored at the demarcated place approved for storing but found to be dumped in the scattered manner. Violation issued under rule 36(3) of MCDR 2017. |
| 8b | Concurrent use or storage of topsoil | Spreading and storage proposed in 2018-19 | Storage | Top soil has not been stored at the demarcated place approved for storing but found to be dumped in the scattered manner. Violation issued under rule 36(3). |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dump for OB | Yes | |
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling Proposed | Yes being carried out | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---|
| 9a | Status of submission of Monthly and Annual returns | To be submitted | Submitting | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer and Geologist to be appointed | Mining Engineer and Geologist not appointed | Violation u/r 55(1)3.(iii) of MCDR-2017 issued. |

| | | | | |
|----|---|---|---|-------------------------------|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Already exploited & abandoned by opencast (O/C) mining-4.202 Ha Covered under current (O/C) Workings-3 Ha Reclaimed/Rehabilitated-2 Ha | | Violation u/r 45(7)(a) issued |
| 9d | Scrutiny of Annual return on afforestation | Nil | Nil | |
| 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 | 1097.50 tonnes-CS | | As reported by Lessee |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Sale value-Rs 425.00 per tonne of LD grade Limestone Ex Mine Price-Rs 425.00 per tonne of LD grade Limestone Cost of Production/Tonne-Rs 350.00 | Sale value-Rs 425.00 per tonne of LD grade Limestone Ex Mine Price-Rs 425.00 per tonne of LD grade Limestone Cost of Production/Tonne-Rs 350.00 | |

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) | 21/08/2019 | | MCDR17 Rule 11(1) | 21/08/2019 | |
| MCDR17 Rule 26(2) | 21/08/2019 | | MCDR17 Rule 26(2) | 21/08/2019 | |
| MCDR17 Rule 31(1) | 21/08/2019 | | MCDR17 Rule 31(1) | 21/08/2019 | |
| MCDR17 Rule 33 | 21/08/2019 | | MCDR17 Rule 33 | 21/08/2019 | |
| MCDR17 Rule 36(3) | 21/08/2019 | | MCDR17 Rule 36(3) | 21/08/2019 | |
| MCDR17 Rule 45(7)(a) | 21/08/2019 | | MCDR17 Rule 45(7) | 21/08/2019 | |
| MCDR17 Rule 54(a) | 21/08/2019 | | MCDR17 Rule 54(a) | 21/08/2019 | |
| MCDR17 Rule 55(1)(3) | 21/08/2019 | | MCDR17 Rule 55(1) | 21/08/2019 | |

Date :

(S K MUDULI)

Indian Bureau of Mines