

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-210/HYD

Mine code : 38APR11192

- (i) Name of the Inspecting : **DP09**) **D.P.Ravi kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri K.Viswanatha Reddy, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 13/03/2024
- (v) Prev.inspection date : 11/03/2023

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANDAVARAM(4.990 HA)**
- (b) **Registration NO.** : **IBM/623/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : NANDAVARAM
- Taluka : BANAGANAPALLI
- Post office : BANAGANAPALLI
- Pin Code : 518 12
- FAX No. : +91 97044 68777
- E-mail : ssnreddy1971@hotmail.com
- Phone : +91 97044 68777
- (f) Police Station : Banganapalli
- (g) First opening date : 11/04/2018
- (h) Weekly day of rest : SUN
2. Address for : H.No: 6/4, Palkur Village
correspondance Banaganapalli Mandal, Kurnool dist.
518124
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : S.VENKATA RAMI REDDY
 PALKUR VILLAGE
 BANAGANAPALLI MANDAL
 KURNOOL DISTRICT KURNOOL
 ANDHRA PRADESH
 Phone:97044 68777
 FAX :97044 68777

Owner : S.VENKATARAMI REDDY
 MINE OWNER, PALKUR POST,
 BANGANAPALLI MANDAL,
 KURNOOL DISTRICT. KURNOOL
 ANDHRA PRADESH
 Phone: 97044 68777
 FAX : 97044 68777

Mining Engineer

Name : K VISWANATHA REDDY,Full Time
 Qualification : BTECH (MINING)
 Appointment/ :
 Termination date

Geologist

Name : R SRINIVASA REDDY,Full Time
 Qualification : MSC GEOLOGY
 Appointment/ :
 Termination date

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|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | MP under 16(1) of MCR 2016 | 14/12/2016 |
| Plan/Scheme of Mining | : | MP review under 17(1) MCR 2016 | 03/03/2022 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|--|
| 1a | Backlog of previous year | None | None | None |
| 1b | Exploration over lease area for geological axis 1 or 2 | No exploration proposed during the year 2022-23. | None | None |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | None | None | None |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | None | None | The entire lease area explored under G1 level. |
| 1e | Balance reserve as on 01/04/20 | | The reserves as on 1.4.2023 are 534244 tonnes | No comments to offer. |
| 1f | General remarks of inspecting officers on geology, exploration etc | None | None | The entire potentially mineralised area is explored under G1 level. The lease falls under Kadapa super basin under Narj i formation. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---------------|
| 2a | Location of development w.r.t.lease area | The workings are proposed between gridlines N 1700862 to N 1700971 & E 205340 to E 205439 | The workings are being carried out as proposed. | No deviation. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Top soil -01, Ore bench=01 | Top soil -01, Ore bench=01 | None |
| 2c | Stripping ratio or ore to OB ratio | None | None | None |

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|----|---|------|--|-----------------------|
| 2d | Quantity of topsoil generation in m3 | None | None | None |
| 2e | Quantity of overburden generation in m3 | Nil | Nil | None |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The lessee is carrying the development as per the approved mining plan document. | No comments to offer. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---|
| 3a | Number of pit proposed for production | One | One | No deviation. |
| 3b | Quantity of ROM mineral production proposed | During the year it was proposed 66193 tones of limestone production. | Actual production reported duirng the year 2022-23 was 23000 tones. The production achieved is lowside, a violation letter for rule 11(1) of MCDR 2017 was sent to the lessee . | The production achieved is lowside, a violation letter for rule 11(1) of MCDR 2017 was sent to the lessee . |
| 3c | Recovery of sailable/usable mineral from ROM production | The entire mineral is saleable - | The entire mineral is despatched for sale. | No deviation. |
| 3d | Quantity of mineral reject generation | No proposals. | Nil | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | None | None | None |
| 3f | Quantity of sub grade mineral generation. | None | None | None |
| 3g | Grade of sub grade mineral generation | None | None | None |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Manual | Manual | None |

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| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | None | None | None |
| 3j | Provision of drilling and blasting in mineral benches | No drilling and blasting proposed | No drilling and blasting being carried out. | No deviation. |
| 3k | Provision of mining machineries in mineral benches | It is proposed Hydraulic excavator 0.9 cum-01, Tippers =03 | It is proposed Hydraulic excavator 0.9 cum-01, Tippers =03 | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | It was proposed to maintain 5 meters bench height. | Same being maintained | No deviation. |
| 3m | Total area covered under excavation/pits | 1.770 ha | 1.770 ha | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | None | None | None |
| 3o | Total area put in use under different heads at the end of year | 1.770 ha | 1.770 ha | None |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19 : 82,091 tonnes , 2019-20= 64. 755 T, 2020-21 t =64,238 T, 2021-22 - 66, 193 T, 2022-23= 66193 tones | 2018-19=24, 500 Tonnes 2019-20=4 7, 100 Tonnes 2020-21=62,500 Tonnes 2021-22=39,900 tonnes 2022-23=23000 tones | Due to less production for the year 2022-23, a violation under rule 11(1) of MCDR 2017 was issued to the lessee. |

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| 3q | General remarks of inspecting officers on method of mining etc. | None | The measure made by the lessee in the approved document for exploitation being implemented. For less production limestone during the year 2022-23, a violation letter was issued to the lessee. |
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Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|--|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | There is no proposal for dumping topsoil/overburden during the year 2022-23 as there is no generation of the same. | same was noticed during the inspection. | None |
| 4b | Location of topsoil, OB and mineral reject dumps | There is no proposa for topsoil / overburden. | No OB or Topsoil generated during the yeax 2022-23. | An old dump is located on the North side of the Lease. |
| 4c | Number of dumps within lease area and outside of lease area | Nil | One old dump noticed on the Northern side of the lease. | None. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | within the UPL | within the UPL | None |
| 4e | Number of active and alive dumps. | One old dump | One old dump | None |
| 4f | Number of dead dumps. | Nil | Nil | Nil |
| 4g | Number of dumps established. | None | None | None |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal | Nil | Nil |

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|----|--|----------------|--|-----------------------------------|
| 4i | Length of Retaining wall or garland drain all along dumps | Not applicable | Nil | Nil |
| 4j | Number of settling ponds | No proposals | Nil | None |
| 4k | Specific comments of inspecting officer on waste dump management | | No proposal for waste generation was made. | No waste generation was reported. |

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. | There is no proposal for backfilling during the year 2022-23 | No recl-anation neasures taken up duirng the year 2022-23 | None. |
| 5b | Area under backfilling of mined out area | None | None | None |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | None | None | None |
| 5d | Total area fully reclaimed and rehabilitated | None | None | None |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | None | None | No area matured for reclamation during the year 2022-23 |

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). | it was proposed to submit annual report regularly to this office. | Annual report on environmental protection measures submitted to this office. | None |

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| 6b | Area available for rehabilitation (ha) . | It was proposed to plant over an extent of 0.06 ha during the year 2022-23 | Same was noticed during the inspection. | None |
| 6c | afforestation done (ha). | 0. 06 ha | 0. 06 ha | None |
| 6d | No. of saplings planted during the year | 60 saplings | 60 saplings | No deviation. |
| 6e | Cumulative no .of plants | -- | 200 no. s | None |
| 6f | Any other method of rehabilitation | None | None | None |
| 6g | Cost incurred on watch and care during the year | -- | Rs.50,000/- | None |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | None | None | None |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | None | None | None |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | None | None | None |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | None | None | None |

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|----|---|--|----------------------|--|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | None | None | None |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | None | None | None |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | None | None | None |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | None | None | None |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | It was proposed to carry out monitoring of environmental parameters. | same was being done. | No comments |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | None | None | The lessee is implementing all the PMCP measure proposed in the approved document. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|-----------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | The entire mineral produced is saleable to the end users. | The same was noticed duirng the inspection. | No deviation. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | It was proposed to take up manual sizing and sorting. | Same was noticed duirng the inspection. | No comments to offer. |

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| 7c | Different grade of mineral sorted out at mines. | Nil | The entire ore is saleable. | The entire ore is saleable. |
| 7d | Any beneficiation process at mines | No beneficiation was proposed. | No beneficiation was noticed during the inspection. | No deviation. |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | It was proposed to utilise the limestone for selling to end users | Same was confirmed during the inspection. | No comments to offer. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-------------|-------------|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal | Nil | None |
| 8b | Concurrent use or storage of topsoil | None | None | None |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | None | None | one old dump noticed on the Northern part of the lease. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | None | None | None |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | None | None | None |

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| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Except for the plantation made by the lessee no other vegetation was noticed. | Same was confirmed during the inspection. | No comments. |
| 8g | Survival rate | 50% | 45% | Nil |
| 8h | Water sprinkling on roads to control airborne dust | It was proposed to control dust suppression by water sprinkling. | same was noticed during the inspection. | No comments to offer. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | None | None | The aesthetic beauty is on a average scale. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------------|
| 9a | Status of submission of Monthly and Annual returns | submitted within timelines | Yes | No deviation. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | As per the annual return 2022-23, Shri K .Viswanath Reddy and sri R Srinivasa Reddy were appointed as Mining Engineer and Geologist respectively. | The same was confirmed during the inspection. | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | As per the annual return the area under pits was 0.200 ha and work done under PMCP during the year =0.030 ha. | Same was noticed during the inspection. | None |
| 9d | Scrutiny of Annual return on afforestation | 60 saplings planted. | Confirmed during the inspection. | Nil |

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|----|---|---|--|--------------|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | As per the Annual return 2022-23, 23000 tonnes of limestone was reported as produced. | Same was confirmed duirng the inspection. | Nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | The ex-mine price reported was Rs.500 per tonne. cost of production is =Rs210/- | same was confirmed duirng the inspection. | No comments |
| 9h | Scrutiny of Annual return on fixed assets | The fixed asset value was reported Rs.776400 lakhs. | The same was not verified. | None |
| 9k | Scrutiny of Annual return on mining machineries | As per the annual return 2022-23, olre shovel and two tippers are reported. | Same was noticed duirng the site inspection. | No comments. |

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

| Violation observed | | | Show couse position | | |
|--------------------|------------|---------------|---------------------|-----------|---------------|
| Rule NO. | Issued on | Compliance on | Rule NO. | Issued on | Compliance on |
| MCDR17 | Rule 11(1) | 08/04/2024 | | | |

Date :

(D.P.Ravi kumar)

Indian Bureau of Mines