

MCDR-MiFLOMgs/2/2022-BNG-IBM_RO_BNG
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/29265/2024

MCDR inspection REPORT
Bangalore regional office

Mine file No : KNT/MYS/MG/13/BNG

Mine code : 39KAR14013

- (i) Name of the Inspecting : 277) GANGADHAR BHAKAT
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Y. Narayana Rao, Agent, Ashok Kumar G.S. Mines Manage
Official with
Designation
- (iv) Date of Inspection : 26/12/2023
- (v) Prev.inspection date : 18/10/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : TALOORU
- (b) **Registration NO.** : IBM/4375/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : MYSORE
- Village : THALOORU
- Taluka : MYSORE
- Post office : TALOORU
- Pin Code : 571311
- FAX No. : 0821-2463789 (F), 9341625511
- E-mail : rajashekar_mys@yahoo.com
- Phone : 0821-2463789 (O), 934211038
- (f) **Police Station** : MYSORE SOUTH
- (g) **First opening date** : 23/04/2005
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SRI.N.RAJASHEKAR,
TALOORU VILLAGE, P.O TALOORU,
VIA KADAKOLA, MYSORE -571311.
3. (a) **Lease Number** : ~~KAR1537~~ ML No 2484
- (b) **Lease area** : ~~12.1~~ 11.88 Ha
- (c) **Period of lease** : 50 Years, up to 22/04/2055
- (d) **Date of Expiry** : 22/04/2055
4. **Mineral worked** : MAGNESITE Main

I/29265/2024

5. Name and Address of the

Lessee : N. RAJSHEKHAR
 MYSORE KARNATAKA
 Phone:9342110383
 FAX :08212463789

Owner : N. RAJSHEKHAR
 MYSORE KARNATAKA
 Phone: 9342110383
 FAX : 08212463789

Agent : Y.NARAYAN RAO
 MYSORE KARNATAKA
 Phone: 9341625511
 FAX :

Mining Engineer

Name : ASHOK KUMAR G S . . . ,Full Time
 Qualification :
 Appointment/ : 17/01/2022
 Termination date

Geologist

Name : Dr.C.P.PRASANNA KUMAR,Part Time
 Qualification : M.SC.(GEO)
 Appointment/ : 01/06/2018
 Termination date

Manager

Name : ASHOK KUMAR G S
 Qualification :
 Appointment/ : 17/01/2022
 Termination date

| | | | |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 05/12/2003 |
| Plan/Scheme of Mining | : | Modif.of approved Mining Plan | 28/05/2007 |
| | : | Modif.of approved Mining Plan | 09/01/2008 |
| | : | Mining Scheme rule 12 MCDR1988 | 29/09/2015 |
| | : | MP review under 17(1) MCR 2016 | 05/02/2020 |
| | : | Modif.approved Mining Scheme | 18/02/2021 |

I/29265/2024

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|----------------------------------|---|
| 1a | Backlog of previous year | 04 Core Boreholes with meterage of 120m. | Nil. | Lessee has proposed to carry out Back Log proposal during the year 2023-24. |
| 1b | Exploration over lease area for geological axis 1 or 2 | No proposal. | Nil. | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | -- | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | | G1 - 7.10 Ha. & G2 - 4.78 Ha. | |
| 1e | Balance reserve as on 01/04/20 | - | 490427 Tons as on 01.04.2023 | Average grade +35% MgO |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | There is no exploration carried out up to till date of inspection. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---|
| 2a | Location of development w.r.t.lease area | Proposed along the section line F-F' & G-G' | Working is being carried out as per proposal. | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes, Ore - 2 & OB - 2 | Carried out as per proposal. | |
| 2c | Stripping ratio or ore to OB ratio | 1:1.86 (in tons) | 1:2.55 (in tons) | Ore: 6565T OB : 16805T |
| 2d | Quantity of topsoil generation in m3 | No proposal. | Nil. | No topsoil generated during the year 2022-23. |
| 2e | Quantity of overburden generation in m3 | 5067Cu.m | 5602 Cu.m | |

I/29265/2024

| | | |
|----|---|---|
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Development carried out as per the proposal. No topsoil generated during the year |
|----|---|---|

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---|
| 3a | Number of pit proposed for production | One pit proposed. | One pit. | |
| 3b | Quantity of ROM mineral production proposed | 8187 Tons | 6565 Tons | |
| 3c | Recovery of sailable/usable mineral from ROM production | 35% | 28% | |
| 3d | Quantity of mineral reject generation | 15201 Tons | 16805Tons | This mineral reject has been treated as waste as it is below the threshold value. |
| 3e | Grade of mineral rejects generation and threshold value declared. | Below the threshold value | Below the threshold value | - |
| 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 | Mechanized method proposed for segregating from ROM. | Mechanized method adopted for segregating from ROM. | - |
| 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 | No proposal. | N.A | - |

I/29265/2024

| | | | | |
|----|--|--|--|---|
| 3k | Provision of mining machineries in mineral benches | Yes, proposed. | Excavators -2No's, Rock Breaker -1 No, Tippers - 2 No's, JCB - 1No, Wheel Loader - 1No, Water Tanker - 1No. | Capacity of Water Tanker 12000 Ltr. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes, Proposed height of benches 6m. | Height of the benches maintained 4 mtr. | Height of the benches maintained within the proposed limit. |
| 3m | Total area covered under excavation/pits | 4.83 Ha. | 4.66 Ha. | |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:1.86 (in tons) | 1:2.55 (in tons) | Ore: 6565T OB : 16805T |
| 3o | Total area put in use under different heads at the end of year | Working-4.83Ha Waste dump2.60Ha, Roads- 0.533Ha Mineral storage0.587Ha Others-3.33Ha | Working: 4.66 ha. Waste disposal :2.60 ha Infrastructure: 0.463 ha Others:4.107ha PMCP : 0.1 ha | - |
| 3p | Production of ROM mineral during the last five year period as applicable | 2018-19: 8187 2019-20: 8187 2020-21: 8187 2021-22: 8187 2022-23: 8187 (in tones) | 2018-19: 6490 2019-20: 5000 2020-21: 3655 2021-22: 5443 2022-23: 6565 (in tones) | - |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Bench geometry maintained as per proposal. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|------------------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | OB is proposed for back filling at pit-1 | Carried out as per proposal. | |
| 4b | Location of topsoil, OB and mineral reject dumps | Back filling propose between the section line A-A' & C-C' | Carried out as per proposal. | |

I/29265/2024

| | | | | |
|----|--|---------------------------|---|--|
| 4c | Number of dumps within lease area and outside of lease area | One (WML) | One (WML & outside UPL) | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Proposed outside the UPL. | As per proposal. | |
| 4e | Number of active and alive dumps. | Nil. | NA | Backfilling carried out in between the section line AA' to CC' of Pit-1. |
| 4f | Number of dead dumps. | One dump. | One dump. | |
| 4g | Number of dumps established. | One dump. | One (In progress partially) | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Yes. | Maintained earlier constructed structure. | |
| 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 | | | Backfilling carried out in between the section line AA' to CC' of Pit-1 as per proposal. |

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. | Proposal for Partial backfilling. | As per proposal. | |
| 5b | Area under backfilling of mined out area | 0.43 Ha | 0.40 Ha | As per annual PMCP report for the year 2022-23. |

I/29265/2024

| | | | | |
|----|---|--------------------------------|----------|---|
| 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 | 0.437 Ha. (For plan period) | 0.17 Ha. | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | As per proposal, backfilling carried out at section line between AA' to CC' of Pit-1. |

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 before 1st of July every year. | Annual PMCP report submitted on 07/07/2023. | |
| 6b | Area available for rehabilitation (ha) . | 0.02 Ha for afforestation in safety zone proposed. | Carried out as per the proposal. | - |
| 6c | afforestation done (ha). | 0.02 Ha for afforestation in safety zone proposed. | Carried out as per the proposal. | - |
| 6d | No. of saplings planted during the year | 1000 No's of saplings proposed. | 1000 No's of saplings planted. | As reported in AR 2022-23. |
| 6e | Cumulative no .of plants | -- | 13650 No's | Annual PMCP report for the year 2022-23. |
| 6f | Any other method of rehabilitation | No proposal | NIL | |
| 6g | Cost incurred on watch and care during the year | Rs 2 Lakh. | Rs 1.5 Lakh. | Information furnished by the lessee during inspection. |

I/29265/2024

| | | | | |
|----|--|---------------------------------|--------------------------------|----------------------------|
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 76m X 56m X 1.4m | 0.17 Ha | - |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 0.473 Ha. | 0.17 Ha | - |
| 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 | 1000 No's of saplings proposed. | 1000 No's of saplings planted. | As reported in AR 2022-23. |
| 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 | |

I/29265/2024

| | | | | |
|----|---|--|---|--|
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Environmental monitoring of air, water & noise proposed for both core & buffer zone. | Environmental monitoring of air, water & noise was carried out by Ganesh Consultancy & analytical services Mysuru - 570016. | All the environmental monitoring parameters are within the permissible limit. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Environmental monitoring of Ambient air quality, Ground water & Noise level for core zone & buffer zone carried out by M/s Ganesh Consultancy & Analytical Services Lab., Mysore |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Manual sorting & sizing. | Sorting& sizing carried out within lease area. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual method proposed for grade-wise mineral sorting. | Manual method adopted for grade-wise mineral sorting. | |
| 7c | Different grade of mineral sorted out at mines. | No proposal. | Size-wise sorting +40% MgO, -40% to 35% MgO& -35% to 25% MgO. | |
| 7d | Any beneficiation process at mines . | No proposal. | NIL | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Manual method adopted for grade-wise sorting of mineral. |

Environment :

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

I/29265/2024

| | | | | |
|----|---|---|--|---|
| 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) | Yes, for mineral reject. | Waste is use for backfilling in pit no. 1 | Less than the threshold value and it is treated as waste. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | YES | Only use for backfilling. | Less than the threshold value and it is treated as waste. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Pit -1 | Pit -1 backfilling and dump afforestation | - |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | - | 1000 No's | - |
| 8g | Survival rate | 80% | 80% | - |
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling on haul road proposed. | Water sprinkling was carried out to control air born dust. | Capacity of Water Tanker 12000 Ltr. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | Aesthetic beauty in and around mines area is good. |

Compliance of Rule 45:

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

I/29265/2024

| | | | |
|----|---|--|--|
| 9a | Status of submission of Monthly and Annual returns | M.R. Submitted up to November 2023. A.R. Submitted up to 2022-23. | M.R. Submitted for the month of November 2023 on 05/12/2023 & A.R. Submitted for the year 2022-23 on 12/07/2023. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer - Ashok Kumar G. S. Geologist - C. P. Prasannakumar. | Appear to be correct. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Working: 4.66 ha. Waste disposal :2.60 ha Infrastructure : 0.463 ha Others:4.107ha PMCP : 0.1 ha | Appear to be correct. |
| 9d | Scrutiny of Annual return on afforestation | 1000 No's | Appear to be correct. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | Mineral reject less than the threshold value and it is treated as waste as per proposal. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Opening Stock of ROM: Nil. Closing Stock of ROM: Nil. ROM Production: Tons. 6565 Tons. Grade wise production of Magnesite:- 6565 Tons. | Appear to be correct. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex-Mine Price- Rs.7534.16/- Production Cost: Rs.4749.88/- per tons. | Appear to be correct. |
| 9h | Scrutiny of Annual return on fixed assets | Fixed assets value of Rs.91,27,346/- | Appear to be correct. |

I/29265/2024

9k Scrutiny of Excavators -2 Appear to be correct.
Annual return on No's,
mining Rock Breaker -
machineries 1 No,
Tippers - 2
No's,
JCB - 1No,
Wheel Loader -
1No,
Water Tanker -
1No.

I/29265/2024

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 45(7) (a) | 30/01/2024 | 13/03/2024 | MCDR17 Rule 45(7) | 30/01/2024 | 13/03/2024 |

Date :**(GANGADHAR BHAKAT)**

Indian Bureau of Mines