

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

**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 : Sri Y. Narayana Rao, Agent, Sri Ashok Kumar, ME and M  
Official with  
Designation
- (iv) Date of Inspection : 18/10/2022
- (v) Prev.inspection date : 04/10/2021

**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**
- (b) **Lease area** : **12.1**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **22/04/2055**
4. **Mineral worked** : **MAGNESITE** **Main**

## 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 : SURESH GANESH,Full Time  
 Qualification : BE MINING  
 Appointment/ : 10/09/2021  
 Termination date

## Geologist

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

## Manager

Name : K.RAJAGOPALAI AH  
 Qualification : DIP.IN MINING ENGINEER , IInd CLASS HOLD  
 Appointment/ : 15/10/2005  
 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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal.	NIL	
1b	Exploration over lease area for geological axis 1 or 2	04 Core Boreholes with meterage of 120m.	Not carried out.	Violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	
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		0.497 MT (as on 01/04/2022)	Average +35% MgO
1f	General remarks of inspecting officers on geology, exploration etc			No exploration has been carried out against the proposal of 04 Nos of core bore hole. Violation has been pointed out under rule 11(1) of MCDR,2017.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed along the section line D D' & E E'	Working is being carried out as per proposal.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Ore - 3 OB - 2	Carried out as per proposal.	-
2c	Stripping ratio or ore to OB ratio	1:1.86(in tones)	1:2.71(in tones)	Ore :5443t OB: 14777t
2d	Quantity of topsoil generation in m3	No proposal.	Nil.	No topsoil generated during the year 2021-22.
2e	Quantity of overburden generation in m3	5086 Cu.m	4925 Cu.m	-

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 2021-22.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits proposed.	Two pits Pit -1 & Pit - 2	
3b	Quantity of ROM mineral production proposed	8187 Tons	5443 Tons	34% less production. Violation issued.
3c	Recovery of sailable/usable mineral from ROM production	35%	27%	--
3d	Quantity of mineral reject generation	15204 Tons	14777t	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.	NA	

3k	Provision of mining machineries in mineral benches	Yes, Proposed.	Rock Breaker - 1 No. Tipper - 2 No's Water Tanker- 1 No. Front End Loader -1 No. JCB- 1 No	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 4 mtr.	Height of the benches are maintained within the proposed limit.
3m	Total area covered under excavation/pits	4.830 Ha.	4.560 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.86	1:1.71	OB-14777 Tons Ore-5443 Tons
3o	Total area put in use under different heads at the end of year	Working-4.83Ha Waste dump- 2.60Ha, Roads- 0.533Ha Mineral storage- 0.587Ha Others-3.33Ha	Working-4.56Ha Waste dump-2.60Ha, Roads- 0.533Ha Others-4.187Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 8187 2018-19 - 8187 2019-20 - 8187 2020-21 - 8187 2021-22 - 8187 (In tons)	2017-18 - 5980 2018-19 - 6490 2019-20 - 5000 2020-21 - 3655 2021-22 - 5443 (In tons)	
3q	General remarks of inspecting officers on method of mining etc.			Bench geometry maintained as per proposal. Violation issued under rule 11(1) of MCDR, 2017 for 34% less production achieved during the year 2021-22.

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)	Yes.	Carried out as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Yes.	Carried out as per proposal.	No topsoil generated.
4c	Number of dumps within lease area and outside of lease area	One (WML).	One (WML).	
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 dump ( In progress partially)	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Carried out.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall-310m Garland Drain-310m Safety bund-230m	Constructed as per proposal.	
4j	Number of settling ponds	01	01	Constructed as per proposal.
4k	Specific comments of inspecting officer on waste dump management			No generation of top soil, wastematerial is being disposed in the proposed backfilling area.

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**Solid Waste Management - Backfilling:**

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Sl.No.	Item	Propasals	Actual work	Remarks
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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	Section line AA'to CC' of Pit-1.	Carried out as per proposal.	
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 0.15 Ha. plan period)		
5e	General remarks of inspecting officers on backfilling and reclamation etc.			As per proposal, backfilling carried out at section line AA'to CC' of Pit-1.

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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).	YES	Annual report on PMCP for 2021-22 was submitted on 22ndApril 2022 through e-mail.	
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.25 Ha.	0.25 Ha.	
6d	No. of saplings planted during the year	Proposed sapling: Dump- 200Nos.& Buffer zone 800Nos.	Carried out 1000Nos (WML) & 200Nos (OML)	
6e	Cumulative no .of plants	2000 Nos.	2200 Nos	
6f	Any other method of rehabilitation	No proposal.	NIL	

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6g	Cost incurred on watch and care during the year	Rs. 2.0 Lakh	Rs.1.5 lakh	Information furnished by the lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	77mx54mx3.6m	50mx30mx3m	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	6300 Cu.m.	4500 Cu.m.	
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)	Environmental monitoring proposed for Air, Water & Noise at core zone & buffer zone.	Carried out records verified during inspection.	All the parameters are within the 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 Ganesh Consultancy & Analytical Services Lab., Mysore. All the parameters are within the permissible limit.

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#### 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.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	No top soil generated.
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.	
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)	800 No's saplings	1000 No's (WML) & 200 No's (OML)	
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.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is good.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M. R. submitted up to August 2022  A.R submitted up to Year 2021-22		M.R. submitted on 07/09/2022 A.R submitted on 28/06/2022
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Mines Manager: Ashok Kumar G.S, B. E. Mining. Geologist: Dr. Prasanna Kumar, M.Sc. in Geology	Appears to be correct.	As per AR FY 2021-22.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Current (O/C) working: 4.56 ha. Waste dump: 2.60 ha. Roads- 0.553Ha Others-4.187Ha	Appears to be correct.	As per AR FY 2021-22
9d	Scrutiny of Annual return on afforestation	WML: 2000, OML: 200 Nos. & survival rate: 80%	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Mineral rejects for Magnesite under Sec. 4 have not been furnished.	Violation pointed out.

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. 5443 Tons. Grade wise production of Magnesite:- 5443 Tons.	Appears to be correct.	As per AR-2021-22
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Rs. 6924/- per ton production cost: Rs. 4399/- per ton	Appears to be correct.	As per AR 2021-22
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 10104829 /-	Appears to be correct.	As per AR-2021-22
9k	Scrutiny of Annual return on mining machineries	Rock Breaker - 2 Nos. Tipper - 2 No's Water Tanker- 1 No. Front End Loader -1No. JCB- 1 No	Appears to be correct.	

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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)	16/12/2022	15/03/2023			
MCDR17	Rule 34(2)	16/12/2022				
MCDR17	Rule 35(2)	16/12/2022	15/03/2023			

**Date :**

**(GANGADHAR BHAKAT)**

Indian Bureau of Mines