

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION  
MCDR INSPECTION REPORT  
BANGALORE REGIONAL OFFICE**

**Mine File No : KNT/MYS/Mgst-13/BNG**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Taloor Magnesite mine
2	Date of inspection	22.06.2024
3	Name of inspecting officer	K. Srinivas, JMG
4	Name of accompanying mine officials	Narayana Rao, Agent Ashok Kumar, Mining Engineer
5	Previous date of Inspection	
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	11.88ha (Non-Forest)
7	Minecode with ML no.	39KAR14013, ML No.2484
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4375/2011
9	Name of the lessee, Address, phone, email and fax number	Sri N. Rajashekhar, Mine Owner, Taloor Magnesite mine No.38, Sri Nanjundeshwara Nilaya Udayaravi Road, KHB Colony, Kuvempunagar, Mysuru -570 023 ,Karnataka state. E-mail <span style="float: right;">id-</span> <a href="mailto:rajashekar_mys@yahoo.com">rajashekar_mys@yahoo.com</a> ,
10	Village	Taloor
11	Taluk/Mandal	Mysuru
12	District	Mysuru
13	Pincode	570 023
14	State	Karnataka
15	Post office	Jayapura
16	Nearest police station	Jayapura
17	Nearest Railway station	Mysuru
18	Date of Grant of Mining Lease	23/04/2005
19	Date of Execution	23/04/2005

20	Date of opening of Mine	23/04/2005
21	Date of expiry	22/04/2055
22	Name of the <b>Nominated Owner</b> with Address, phone, email, fax number and date of appointment	-
23	Name of the Mine <b>Agent</b> with Address, phone, email, fax number and date of appointment	Y. Narayana Rao
24	Name of the <b>Mines Manager</b> with Address, phone, email, fax number and date of appointment in mines	Ashok Kumar G. S
25	Name of the <b>Mining Engineer</b> , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Ashok Kumar G. S
26	Whether <b>Geologist</b> appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Dr. Prasanna Kumar
27	Date of Approval of Mining plan/ Review and updation of Mining plan with five-year period and specific condition in approval letter, if any.	18.2.2021( 2021-22 to 2024-25)
28	Mineral(s) granted in lease and proved for mining	Magnesite
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	A category
31	Captive/ Non captive	Non-captive
32	Present EC Capacity	23,400 tonnes( ROM)

**Exploration**

S.N	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	-
1b	Exploration over lease area for Geological axis 1 or 2.	No proposals	Nil	No proposals for the year 2023-24
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposals	nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1-7.10ha G2- Nil G3-4.78ha	As reported by the lessee
1e	<b>Balance reserves as on <u>01.04.2024</u></b>	-	-	The reserves (111) Magnesite as on 1.4.2024 is 483871 tonnes.
1f	General remarks of inspecting officer on geology, exploration etc.	There are no exploration proposals for the year 2023-24.		

**Development**

S.N	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Location of Development- Section E-E' F-F', G-G'.	Development has been carried out as proposed.	-
2b	Separate benches in topsoil, overburden	Yes	yes	-

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	and mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio	1: 1.86 (in tonnes)	1: 2.62 (in tonnes)	Ore-6556 t OB- 17212 t (rejects)
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal	nil	No top soil generated.
2e	Quantity of overburden generation in m <sup>3</sup>	5069 cu.m	5737cu.m	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is no top soil generation during the year.		

### Exploitation

S.N	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Pit No.1 & 2	Pit No.1 & 2	-
3b	Quantity of ROM mineral production proposed	8187t	6556tonnes	Saleable ore
3c	Recovery of salable/usable mineral from ROM production	35%	27%	-
3d	Quantity of mineral reject generation	15207t	17212t	-
3e	Grade of mineral reject generation and threshold value declared	Not specified	Nil	The violation pointed out for not furnishing the information on Rejects in the AR-2023-24.

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	Manual/ Mechanised	Manual/ Mechanised	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	-
3j	Provision of drilling & blasting in mineral benches	No proposal	Nil	-
3k	Provision of mining machineries in mineral benches	Machineries proposed- Excavators- 2 Wheel loader-1 Tippers- 2 water tanker-1 Rock Breaker-1 JCB-1	Machinery deployed: Excavators- 2 Wheel loader-1 Tippers- 2 water tanker-1 Rock Breaker-1 JCB-1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 6m proposed.	Average bench height 6m maintained.	-
3m	Total area covered under excavation/pits	4.83 Ha	4.66 Ha	As per the AR 2023-24.
3n	Ore to OB ratio for the pit/mine during the year	1: 1.86 (in tonnes)	1: 2.62 (in tonnes)	Ore-6556 t OB- 17212 t (rejects)

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3o	Total area put in use under different heads at the end of year	Area under mining – 4.83ha OB Dumping - 2.6ha Mineral storage- 0.587ha Infrastructure & Roads -0.548ha Afforestation& Green belt- 1.0ha At the end of the plan period (2024-25)	Area under mining – 4.66ha OB Dumping - 2.65ha Infrastructure & Roads -0.463ha Mineral storage, Rest shelter, Green Belt-4.107ha	As per the AR 2023-24.
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 8187 2020-21: 8187 2021-22: 8187 2022-23: 8187 2023-24: 8187 (in tonnes)	2019-20: 5000 2020-21: 3655 2021-22: 5443 2022-23: 6565 2023-24: 6556 (in tonnes)	-
3q	General remarks of inspecting officer on method of mining etc.	There is no change in the method of mining.		

### Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Waste is proposed for backfilling.	Carried out as per the proposals.	-
4b	Location of topsoil, OB & mineral reject dumps	Backfilling in section BB'.	Carried out as per the	-

			proposals.	
4c	Number of dumps within lease area and outside lease area	One dump within the Mining lease.	One dump within the Mining lease.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the Ultimate Pit Limit	Outside the Ultimate Pit Limit	-
4e	Number of active & alive dumps	1 active waste dump	1 active waste dump maintained	-
4f	Number of dead dumps	one.	one	-
4g	Number of dumps stabilized	one	one	-
4h	Whether Retaining wall or garland drain all along dumps are there	No Retaining wall & Garland drain proposal.	nil	-
4i	Length of Retaining wall or garland drain all along dump	No Retaining wall & Garland drain proposal.	nil	-
4j	Number of settling ponds	No proposals	nil.	-
4k	Specific comments of inspecting officer on waste dump management.	There is no specific comment on waste dump management.		

### Solid Waste Management-Backfilling

S.N	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposed along the section BB'	Carried out as per the proposal.	-
5b	Area under backfilling of mined out area	Not specified	Nil	-
5c	Concurrent use of topsoil	No proposal	Nil	-

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	for restoration or rehabilitation of mined out area (Rule 32)			
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling is carried out as per the proposals.		

### Progressive Mine Closure Plan

S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	To be submitted the annual report on PMCP under Rule26(2)	Submitted.	-.
6b	Area available for rehabilitation (ha)	No proposal	Nil	-
6c	Afforestation done (ha)	0.2ha within lease	0.2ha within lease area	As reported by the lessee during the inspection.
6d	No. of saplings planted during the year	800	800saplings planted inside and 200 saplings outside ML area.	As reported in AR2023-24.
6e	Cumulative no. of plants	-	14450	As reported by the lessee
6f	Any other specific method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch	Rs200000/-	Rs200000/-	-



	& care during the year			
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	83x61x1.4m	Carried out as per the proposal	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposals	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposals	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposals	Nil	-
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposals	Nil	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposals	Nil	-
6o	Compliance of Rehabilitation of waste	No proposals	Nil	-

	land within lease (iii) Method of rehabilitation			
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environment monitoring proposed for Air, Water & Noise.	Environment monitoring for Air, Water & Noise carried out.	All the environmental parameters within limit
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No specific comments on compliance of PMCP and progressive closure operations.		

### Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only manual sorting within the lease proposed	Only manual sorting within the lease carried out for different sizes	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual grade wise sorting proposed	Manual grade wise sorting	-
7c	Different grade of mineral sorted out at mines	No proposal	nil	-
7d	Any beneficiation process at mines	Only sorting and sizing	Only sorting and sizing carried out.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No specific comments		

**Environment**

<b>S. N.</b>	<b>Item</b>	<b>Proposals</b>	<b>Actual work</b>	<b>Remarks</b>
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)	Proposal for Separate dumping of Overburden/ Mineral	Separate dumping of Overburden/ Mineral is carried out.	-
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 & additional plantation done (Rule 41)	800nos. of saplings within the ML area.	800nos. of saplings planted.	As reported in AR2023-24.
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tanker deployed to control the airborne dust on haul roads and screening plant.	-
8i	General remarks	There is no change in aesthetic beauty in		

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	of inspecting officer on aesthetic beauty in and around mines area	and around mines area.		
<b>Compliance of Rule 45</b>				
S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May,2024 A.R. for the year 2023-24submitted on 18.06.2024.		-
S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Dr. Prasanna Kumar, Geologist Ashok Kumar G. S, Mining Engineer & Manager	Appears to be correct	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining – 4.66ha OB Dumping - 2.65ha Infrastructure & Roads - 0.463ha Mineral storage, Rest shelter, Green Belt-4.107ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	800nos. of plants (inside the ML)with 80% survival rate	Appears to be correct	-
9e	Scrutiny of Annual return on	Not furnished	Appears not to be	The violation pointed out.

	mineral reject generation (Grade & quantity)		correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mgst : O/S –nil Production - 6556t C/S – Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- Rs4749.88/tonne Ex-price mine- Rs 6672.32/tonne	Appears to be correct	-
9i	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs 8247611/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavators- 2 Wheel loader-1 Tippers- 2 water tanker-1 Rock Breaker- 1 JCB-1	Appears to be correct	-

Date :

(K. Srinivas)  
Junior Mining Geologist  
Indian bureau of Mines