

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

I/36869/2024

Mine File No : KNT/MYS/Mgst-2/BNG

S. N.	Particulars	Details
1	Name of the Mine	Karya Mangnesite mine
2	Date of inspection	24.06.2024
3	Name of inspecting officer	K. Srinivas, JMG
4	Name of accompanying mine officials	Sri R. Nirmal Kumar, Mines Manager, Sri Gopalkrishna P.S, Geologist
5	Previous date of Inspection	
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	86.25 ha ML No.2495
7	Minocode with ML no.	39KAR14002
8	IBM Registration Number under rule 45 of MCDR, 1988	4369
9	Name of the lessee, Address, phone, email and fax number	M/s Karnataka State Mineral Corporation Ltd., T.T.M.C 'A' Block, 5 th Floor, BMTc Building, K.H Road, Shanthinagar, Bengaluru – 560 027. mmlDgm@gmail.com / agm.env.mml@nic.in / karyaminesmml@gmail.com
10	Village	Karya
11	Taluk/Mandal	Nanjangud
12	District	Mysuru
13	Pincode	571 314
14	State	Karnataka
15	Post office	Hullahalli
16	Nearest police station	Nanjangud
17	Nearest Railway station	Nanjangud
18	Date of Grant of Mining Lease	24/05/1983
19	Date of Execution	24/05/1983
20	Date of opening of Mine	24/05/1983
21	Date of expiry	23/05/2033
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Jayavibhava Swamy, IAS M/s Karnataka State Mineral Corporation Ltd., T.T.M.C 'A' Block, 5 th Floor, BMTc Building, K.H Road, Shanthinagar,

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		Bengaluru – 560 027.
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	H.D.Raju M/s Karnataka State Mineral Corporation Ltd., T.T.M.C 'A' Block, 5 th Floor, BMTC Building, K.H Road, Shanthinagar, Bengaluru – 560 027. mml_dgm@gmail.com / agm.env.mml@nic.in / karyaminesmml@gmail.com
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	R. Nirmal Kumar, Mines Manager.
25	Name of the Mining Engineer , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	R. Nirmal Kumar, Mining Engineer
26	Whether Geologist appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Sri Gopalkrishna P.S, Geologist.
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.	279/302//92/BNG dated 20/01/2023 for the period of 2023-24 to 2027-28.
28	Mineral(s) granted in lease and proved for mining	Magnesite and Dunite
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	A cat. (Mechanised)
31	Captive/ Non captive	Non-captive
32	Present EC Capacity	387500 tonnes

Exploration

S.N	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	-

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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	G1-5.0ha G2-1.62ha G3-1.65ha Non-mineralised-77.85Ha	-
1e	Balance reserves as on <u>01.04.2024</u>	-	The reserves (111) Magnesite as on 1.4.2024 is 176186 tonnes.	The reserves (111) Dunite as on 1.4.2024 is 4308476 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-Main pit	Development has been carried out as proposed.	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed in OB and mineral.	Separate benches maintained in OB and mineral.	-
2c	Stripping ratio or ore to OB ratio	1: 0.206 (in tonnes)	1: 1.064 (in tonnes)	Ore-3954 t OB- 4209 t (As per AR 2023-24.)
2d	Quantity of topsoil generation in m ³	No proposal	nil	No top soil generated.
2e	Quantity of overburden	33150m ³	2338 m ³	Violation pointed out

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	generation in m3			for less development.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development has been carried out less than the proposed quantity. Hence the violation has been pointed out.		

Exploitation

S.N	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	Magnesite- 11130t Dunite – 278250t	Magnesite- 260t Dunite – 3694t	Violation pointed out for less production
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As reported in AR 2023-24.
3d	Quantity of mineral reject generation	No proposal	Nil	No mineral reject generated. As reported in AR 2023-24.
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	-
3f	Quantity of sub-grade mineral generation	No proposal	Nil	-
3g	Grade of sub-grade mineral generation	No proposal	Nil	-
3h	Manual / Mechanised	Manual/ Mechanised	Manual/ Mechanised	-

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	method adopted for segregating from ROM			
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	Drilling and Blasting proposed.	Drilling and blasting carried out.	-
3k	Provision of mining machineries in mineral benches	Machineries proposed- Excavators- 2 Wheel loader-1 Tippers- 3 water tanker-1 Drill-2	Machinery deployed: Excavators- 2 Tippers- 3 water tanker-1 Drill -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	9.32 Ha	9.32 Ha	As per the AR 2023-24
3n	Ore to OB ratio for the pit/mine during the year	1: 0.206 (in tonnes)	1: 1.064 (in tonnes)	Ore-3954 t OB- 4209 t (Total RoM of Magnesite and Dunite and waste generation as per AR 2023-24.)
3o	Total area put in use under different heads at the end of year	Area under mining – 9.32ha OB Dumping - 19.08ha	Area under mining – 9.32ha OB Dumping - 18.98ha	As per the AR 2023-24.

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		Mineral storage-1.30ha Infrastructure & Roads -1.85ha	Mineral storage-1.30ha Infrastructure & Roads -1.85ha	
3p	Production of ROM mineral during last five-year period, as applicable	Magnesite : 2019-20:17843 2020-21:21455 2021-22:23870 2022-23:23996 2023-24 : 11130 Dunite : 2019-20:267645 2020-21:321825 2021-22:358050 2022-23: 359940 2023-24 : 278250 (in tonnes)	Magnesite : 2019-20:2198 2020-21:2406 2021-22:1614 2022-23: 1630 2023-24 :260 Dunite : 2019-20:61260 2020-21:72929 2021-22:101718 2022-23: 139725 2023-24 :3694 (in tonnes)	Violation pointed out for less production
3q	General remarks of inspecting officer on method of mining etc.	There is no change in the method of mining. The production of Magnesite and Dunite is less than the proposed. The violation has been pointed out.		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate Dumping of Overburden, Mineral proposed.	Separate Dumping of Overburden, Mineral, maintained	-
4b	Location of topsoil, OB & mineral reject dumps	Western side of the working pit.	Western side of the working pit..	-
4c	Number of dumps within lease area and outside lease area	3 OB dumps within the Mining lease.	3 OB dumps 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 &	1 active waste	1 active waste	-

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	alive dumps	dump	dump maintained	
4f	Number of dead dumps	2 dead dumps within ML area.	2 dead dumps within ML area	-
4g	Number of dumps stabilized	2	2	-
4h	Whether Retaining wall or garland drain all along dumps are there	60m Retaining wall & 60m Garland drain and 100m Fencing proposed.	60m Retaining wall & 60m Garland drain and 100m Fencing not carried out as proposed.	-
4i	Length of Retaining wall or garland drain all along dump	60m Retaining wall & 60m Garland drain and 100m Fencing proposed.	Construction of 60m Retaining wall & 60m Garland drain and 100m Fencing not carried out.	Violation pointed out for not construction.
4j	Number of settling ponds	No proposals	nil.	-
4k	Specific comments of inspecting officer on waste dump management.	The protective measures have not been carried out as proposed. The violation has been pointed out.		

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	No proposal	Nil	-
5b	Area under backfilling of mined out area	No proposal	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	-

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5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	There are no proposals for backfilling.		

Progressive Mine Closure Plan

S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted the annual report on PMCP under Rule26(2)	Annual PMCP Report for the year 2021-22 submitted on 15.06.2024	-
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	150	350saplings planted inside and150	As reported in AR2023-24.

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			saplings outside ML area.	
6e	Cumulative no. of plants	600	19276	As reported by the lessee
6f	Any other specific method of rehabilitation	No proposals	Nil	-
6g	Cost incurred on watch & care during the year	Rs20,000/-	Rs20,000/-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	No proposals	Nil	-
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	-

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6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposals	Nil	-
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposals	Nil	-
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	300mm to 10mm	100mm to 10mm	-
7d	Any beneficiation process at mines	Only sorting and sizing	Only sorting and sizing carried out.	-
7e	General remarks	No specific comments		

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	of inspecting officer on Mineral conservation & beneficiation issues	
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Environment

S. N.	Item	Proposals	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)	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)	150nos. of saplings out side and inside the ML area.	350nos. of saplings planted.	As reported in AR2023-24
8g	Survival rate	70%	60%	-
8h	Water sprinkling on roads to control airborne	Water sprinkling on haul	Water tanker deployed to control the	-

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	dust	roads proposed to control airborne dust.	airborne dust on haul roads and screening plant.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There is no change in aesthetic beauty in and around mines area.		
Compliance of Rule 45				
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 2023-24 submitted on 15.06.2024.		-
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 Gopalakrishna ,Geologist Nirmal Kumar, 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 – 9.32ha OB Dumping - 18.98ha Mineral storage-1.30ha Infrastructure & Roads - 1.85ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	350nos. of plants (inside the ML)with 60% survival rate	Appears to be correct	-

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9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mgst : O/S –nil Production - 260t C/S – Nil Dunite : O/S – nil Production - 3694t C/S – Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- Rs6909.59/tonne Ex-price mine- Rs 7449/tonne	Appears to be correct	-
9i	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs 17953384/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavators- 2 Tippers- 3 water tanker-1 Drill -1	Appears to be correct	-

Date :

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