

MCDR-MiFLOMgs/1/2022-BNG-IBM_RO_BNG
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/29428/2024

MCDR inspection REPORT
Bangalore regional office

Mine file No : KNT/MYS/MG/2/BNG

Mine code : 39KAR14002

- (i) Name of the Inspecting : **S006**) **DR.SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri. R. Nirmal Kumar, Dy. General Manager (P)
Official with
Designation
- (iv) Date of Inspection : 27/12/2023
- (v) Prev.inspection date : 05/10/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARYA (282H)**
- (b) **Registration NO.** : **IBM/4369/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **MYSORE**
- Village : **KARYA**
- Taluka : **NANJANGUD**
- Post office : **HULLAHALLI**
- Pin Code : **571314**
- FAX No. : **080-25583172 (F),**
- E-mail : **karyaminesmml@gmail.com**
- Phone : **080-22278813 (O), 08221-220**
- (f) **Police Station** : **Nanjangud**
- (g) **First opening date** : **24/05/1983**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Karya Magnesite Mine of M/s KSMCL**
Po-Hullahalli, Tq-Nanjangud
Dist-Mysore, Karnataka-571314
3. (a) **Lease Number** : **~~KAR0556~~ ML No 2495**
- (b) **Lease area** : **86.25 Ha.**
- (c) **Period of lease** : **50 Years, up to 23/05/2033**
- (d) **Date of Expiry** : **23/05/2033**
4. **Mineral worked** : **DUNITE** Associated
MAGNESITE Main

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5. Name and Address of the

Lessee : Karnataka State Minerals Corp. Ltd
 TTMC, A Block, 5th Floor,
 BMTC Building, K.H.Road,
 Shanthinagar Bengaluru
 BANGALORE KARNATAKA
 Phone:080-22278813-14-15-16
 FAX :080-22213172

Owner : JayavibhavaSwamy, I.A.S, Managing Director
 Karnataka State Minerals
 Corporatio BMTC
 Shanthinagar, TTMC Building
 A" Block, 5th Floor,
 Shanthinagar BANGALORE
 KARNATAKA
 Phone: 080-22278813/14
 FAX : 08022213172

Agent : H.D.RAJU
 Karanataka State Minerals
 Corporati TTMC Building "A"
 Block, 5th Floor BMTC Bus
 stand,Shanthinagara, BANGAL
 BANGALORE KARNATAKA
 Phone: 9448303626, 080-22278813/4/5/6
 FAX :

Mining Engineer

Name : NIRMAL KUMAR, Full Time
 Qualification : B.E. (MINING)
 Appointment/ : 03/08/2020
 Termination date

Geologist

Name : GOPALKRISHNA P S, Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 06/12/2023
 Termination date

Manager

Name : R.Nirmal Kumar
 Qualification : BE (Mining)
 Appointment/ : 03/08/2020
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	14/07/1992
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	16/12/1997
	:	Renewal under rule 22 MCR1960	18/06/2003
	:	Modif.of approved Mining Plan	19/12/2008
	:	Mining Scheme rule 12 MCDR1988	06/12/2013
	:	MP review under 17(1) MCR 2016	02/02/2018
	:	MP review under 17(1) MCR 2016	20/01/2023

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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	No Proposal.	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	G1-5.13ha G2-1.62ha G3-1.65ha	As reported by Mines management.
1e	Balance reserve as on 01/04/20	--	Magnesite 171669Tonnes & Dunite 2406555Tonnes (as on 01/04/2023)	Average 43% MgO
1f	General remarks of inspecting officers on geology, exploration etc			There is no exploration proposal for the year 2022-23.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed along the section line G G' & J J'	Working is being carried out as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB and mineral.	Carried out as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:4.36 (in tones)	1:0.50 (in tones)	Ore:141355t (Magnesite-1630t &Dunite-139725t) OB- 71233t As per AR 2022-23.)
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	48950 Cu.m	39574 Cu.m	--

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Agitation of the local people at the date of inspection. So, which is restricted to entry in mine working pit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pits proposed.	One pit	-
3b	Quantity of ROM mineral production proposed	Magnesite-23996 Tons & Dunite-359940Tons	Magnesite-1630 Tons & Dunite-139725Tons	Less production due to poor marketing condition.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal.	Nil.	No mineral generation.
3e	Grade of mineral rejects 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 method adopted for segregating from ROM	Manual method proposed for segregating from ROM.	Manual 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	Drilling and Blasting proposed.	Drilling and blasting carried out.	

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3k	Provision of mining machineries in mineral benches	Machineries proposed, Excavators-2 Nos, Wheel loader-1 No, Tippers-5 Nos, Tippers-1No (water tanker fixed), Drill-1No.	Machinery deployed: Crusher(100TPH)-1 No, Excavators-2Nos, Loader-1No, Tippers-5Nos, water tanker-1No, Jeep/Tractor-2Nos.	Capacity of water tanker 6000 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.	Average Height of the benches 6m.	Height of the benches are maintained within the proposed limit.
3m	Total area covered under excavation/pits	9.20 Ha	9.20 Ha	Already broken area.
3n	Ore to OB ratio for the pit/mine during the year.	1:4.36 (in tones)	1:0.50 (in tones)	OB-712333Tons Ore-141355t (Magnesite-1630t & Dunite-139725t)
3o	Total area put in use under different heads at the end of year	Area under mining - 9.2ha, OB Dumping - 19.9ha, Mineral storage- 1.30ha, Infrastructure & Roads - 0.85ha, Afforestation & Green belt 6.12ha, At the end of the plan period.	Working-9.20Ha Waste dump-19.0Ha, Mineral storage-1.30ha, Infrastructure 7.24Ha.	
3p	Production of ROM mineral during the last five year period as applicable	Magnesite : 2018-19:17059 2019-20:17843 2020-21:21455 2021-22:23870 2022-23:23996 Dunite : 2018-19:255885 2019-20:267645 2020-21:321825 2021-22:358050 2022-23:359940 (in tonnes)	Magnesite : 2018-19:2618 2019-20:2198 2020-21:2406 2021-22:1614 2022-23:1630 Dunite : 2018-19:69521 2019-20:61260 2020-21:72929 2021-22:101718 2022-23:139725 (in tonnes)	Less production reported citing due to poor marketing condition.

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3q	General remarks of inspecting officers on method of mining etc.	Bench geometry appears to be maintained as per proposal. Less production reported citing by the mine management due to the marketing condition. Dunite is a minor mineral monitored by State Government however as per the Annual Returns available as an associated mineral, the production figure has been furnished.
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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)	Separate Dumping of Overburden, Mineral proposed.	Carried out as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Western side of the working pit.	Carried out as per proposal.	No topsoil generated.
4c	Number of dumps within lease area and outside of lease area	3 OB dumps (WML).	3 OB dumps (WML).	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL.	Carried out as per proposal.	
4e	Number of active and alive dumps.	1 active waste dump	1 active waste dump maintained	
4f	Number of dead dumps.	2 dead dumps within ML area.	2 dead dumps within ML area.	
4g	Number of dumps established.	Two dumps.	Two dumps.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, proposed.	Constructed length of 20m Retaining wall & 20m Garland drain.	

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4i	Length of Retaining wall or garland drain all along dumps	20m Retaining wall & 20m Garland drain proposed along the proposed dump.	Constructed as per proposal.	
4j	Number of settling ponds	No proposal.	NIL	-
4k	Specific comments of inspecting officer on waste dump management			No generation of top soil, waste material is being disposed in the proposed dump area.

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.	No proposal.	Nil.	Working within the broken area.
5b	Area under backfilling of mined out area	No proposal.	NIL	
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	No proposal.	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There is no proposals for backfilling during the plan period.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted the annual report on PMCP under Rule26(2).	Annual report on PMCP for 2022-23 was submitted on 06th July 2023 through e-mail.	
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.42 Ha.	0.42 Ha.	
6d	No. of saplings planted during the year	Proposed sapling: Dump- 550Nos	Carried out 550Nos (WML)	
6e	Cumulative no .of plants	--	19326Nos.	
6f	Any other method of rehabilitation	No proposal.	NIL	-
6g	Cost incurred on watch and care during the year	No proposal.	NIL	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	NIL	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	NIL	-
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	-

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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.	Environment monitoring for Air, Water & Noise carried out.	All the 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 Sumo Techno Labs Pvt. Ltd., Hosapete & all the parameters are within the permissible limit.

Mineral Conservation:

Sl.No.	Item	Propasals	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.	

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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.	Size-wise sorting +35% MgO.	Size-wise sorting +35% 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 & size wise sorting of mineral.

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)	Proposal for Separate dumping of Overburden.	Separate dumping of Overburden is being carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	NIL	

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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 and additional plantation done (Rule 41)	Proposed 250 No's saplings	550 No's (WML) of sapling planted.	As per information furnished in AR for the year 2022-23.
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.

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 November 2023 A.R submitted up to Year 2022-23		M.R. submitted on 08/12/2023 A.R submitted on 26/05/2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	" Mines Manager: R Nirmal Kumar, B. E. Mining. Geologist: R. Chandrashekar, M.Sc. in Geology	Appears to be correct.	Sri. Gopalakrishna P.S. M.sc. (Geology) present during the mine office document verification. Apinted on 06.12.2023

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Current (O/C) Working-9.20Ha Waste dump- 19.0Ha, Mineral storage- 1.30ha, Infrastructure 7.24Ha.	Appears to be correct.	As per AR FY 2022-23
9d	Scrutiny of Annual return on afforestation	WML: 550, OML: Nil. & survival rate: 80%	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct.	No mineral reject proposed during the year 2022-23.
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 :- 1630 Tons. Grade wise production of Dunite:-139725 Tons.	Appears to be correct.	As per AR-2022-23
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production Rs8064.40/tonne Ex-price mine For Magnesite of Rs 10099/tonne & Dunite Rs 970/tonne	Appears to be correct.	As per AR 2022-23
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 22279214 /-	Appears to be correct.	As per AR 2022-23

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9k Scrutiny of Crusher(100TPH Appears to be correct.
Annual return on)-1 No,
mining Excavators-
machineries 2Nos, Loader-
 1No, Tippers-
 5Nos, water
 tanker-1No,
 Jeep/Tractor-
 2Nos.

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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

Date :

(DR.SURESH PRASAD)

Indian Bureau of Mines