

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 39KAR14002

- (i) Name of the Inspecting : S011) K.SRINIVAS
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri R. Nirmal Kumar, AGM(Mines), Sri R. Chandrashekar
Official with
Designation
- (iv) Date of Inspection : 20-OCT-22
- (v) Prev.inspection date :

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-MAY-83
- (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
- (b) **Lease area** : 86.25
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 23-MAY-23
4. **Mineral worked** : DUNITE Associated
MAGNESITE Main

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 : Shivanand Kapashi, IAS Managing Director
 Karanataka State Minerals
 Corporati TTMC Building "A"
 Block, 5th Floor BMTC Bus
 stand,Shanthinagara, Benga
 BANGALORE KARNATAKA
 Phone: 080-22278813/4/
 FAX :

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-AUG-20
 Termination date

Geologist

Name : R.CHANDRASHEKAR,Full Time
 Qualification : MSc (Geology)
 Appointment/ : 01-FEB-18
 Termination date

Manager

Name : R.Nirmal Kumar
 Qualification : BE (Mining)
 Appointment/ : 03-AUG-20
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	14-JUL-92
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	16-DEC-97
	:	Renewal under rule 22 MCR1960	18-JUN-03
	:	Modif.of approved Mining Plan	19-DEC-08
	:	Mining Scheme rule 12 MCDR1988	06-DEC-13
	:	MP review under 17(1) MCR 2016	02-FEB-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	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 2021-22
1c	Exploration Agencies and 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	G1-5.13ha G2-1.62ha G3-1.65ha	As reported by the lessee
1e	Balance reserve as on 01/04/20	-	The reserves (111) Magnesite as on 1.4.2022 is 173299tonnes	The reserves (111) Dunite as on 1.4.2022 is 2546280tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There are no exploration proposals for the year 2021-22.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of Development- Section F-F', G-G', H-H', I-I', J-J' sections	Development has been carried out as proposed.	-
2b	Separate benches in topsoil, overburden and minerals (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: 3.69 (in tonnes)	1: 0.54 (in tonnes)	Ore-103332t OB- 55830t (Total RoM of Magnesite and Dunite and waste generation as per AR 2021-22.)

2d	Quantity of topsoil generation in m3	No proposal	nil	No top soil generated.
2e	Quantity of overburden generation in m3	48950m3	43617 m3	Violation pointed out for less development.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development has been carried out less than the proposed quantity of development. Hence the violation has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	Magnesite- 23870t Dunite - 358050t	Magnesite- 1614t Dunite - 101718t	Violation pointed out for less production.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal	nil	No mineral reject generated. As reported in AR 2021-22.
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	Manual	-

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.	-
3k	Provision of mining machineries in mineral benches	Machineries proposed- Excavators-2 Wheel loader-1 Tippers-5 Tippers-1(water tanker fixed) Drill-1	Machinery deployed: Excavators-2 Tippers-5 Tippers- 1(water tanker fixed) 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	9.20 Ha	9.20 Ha	As per the AR 2021-22.
3n	Ore to OB ratio for the pit/mine during the year.	1: 3.69 (in tonnes)	1: 0.54 (intonnes)	Ore-103332 t OB- 55830 t (Total RoM of Magnesite and Dunite and waste generation as per AR 2021-22.)
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 (2021-22)	Area under mining - 9.2ha OB Dumping -19.0ha Mineral storage-1.30ha Infrastructure & Roads - 0.85ha Afforestation& Green belt- 6.16ha	As per the AR 2021-22.

3p	Production of ROM mineral during the last five year period as applicable	Magnesite : 2017-18:23975 2018-19:17059 2019-20:17843 2020-21:21455 2021-22:23870 Dunite : 2017-18:359625 2018-19:255885 2019-20:267645 2020-21:321825 2021-22:358050 (in tonnes)	Magnesite : 2017-18:2439 2018-19:2618 2019-20:2198 2020-21:2406 2021-22:1614 Dunite : 2017-18:35594 2018-19:69521 2019-20:61260 2020-21:72929 2021-22:101718 (in tonnes)	Violation pointed out for less production
3q	General remarks of inspecting officers 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:

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.	Separate Dumping of Overburden, Mineral, maintained	-
4b	Location of topsoil, OB and mineral reject dumps	Western side of the working pit.	Western side of the working pit.	-
4c	Number of dumps within lease area and outside of 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 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.	2	2	-

4h	Whether Retaining wall or garland drain all along dumps are there.	20m Retaining wall & 20m Garland drain proposed along the proposed dump.	20m Retaining wall & 20m Garland drain proposed along the proposed dump.	-
4i	Length of Retaining wall or garland drain all along dumps	20m Retaining wall & 20m Garland drain proposed along the proposed dump..	Construction of 20m Retaining wall & 20m Garland drain carried out.	-
4j	Number of settling ponds	No proposals	nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	There are no specific comment on waste dump management.

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	-
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 are no proposals for backfilling.

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 PMCP Report for the year 2021-22 submitted on 10.06.2022	-
6b	Area available for rehabilitation (ha) .	No proposal	nil	-
6c	afforestation done (ha).	0.34ha within lease	0.34ha within lease area	As reported by the lessee during the inspection.
6d	No. of saplings planted during the year	450	400saplings planted inside and 50 saplings outsideML area.	As reported in AR2021-22.
6e	Cumulative no .of plants	450	18776	As reported by the lessee
6f	Any other method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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 rehabilitation (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 and 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 officers on PMCP compliance and progressive closure operations etc.	-	-	No specific comments on compliance of PMCP and progressive closure operations.

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	-
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 to10mm	100mm to 10mm	-

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 and beneficiation issues	-	-	No specific comments.

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/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 and additional plantation done (Rule 41)	450nos. of saplings out side and inside the ML area.	450nos. of saplings planted	As reported in AR2021-22
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 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:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to September, 2022 A.R. for the year 2021-22 submitted on 10.06.2022.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri R.Chandrasekar ,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 - 9.2ha OB Dumping - 19.0ha Mineral storage-1.30ha Infrastructure & Roads - 0.85ha Afforestation& Green belt- 6.16ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	450nos. of plants (inside the ML)with 80% survival rate	Appears to be correct	-

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	Appears to be correct	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mgst : O/S - nil Production - 1614t C/S -Nil Dunite : O/S - nil Production - 101718t C/S - Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs7913.71/tonne Ex-price mine- Rs 8500/tonne	Appears to be correct	-
9h	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs25898447/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavators- 2 Tippers- 5 Tippers- 1(water tanker fixed) Drill -1	Appears to be correct	-

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 11(1)	12-DEC-22			
MCDR17	Rule 34(1)	12-DEC-22			

Date :

(K.SRINIVAS)

Indian Bureau of Mines