INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Bangalore regional office

	Mine i	Eile No : KNT/MYS/MG/2	/BI	1G	Mine code : 39KAR14002
	(i)	Name of the Inspecting Officer and ID No.	:	257) Prashant S Hego	le
	(ii)	Designation	:	Regional Mining Geologis	st
	(iii)	Accompaning mine Official with Designation	:	Shri H. J. Basavarajappa	a, Mines Manager
	(iv)	Date of Inspection	:	14/12/2019	
	(v)	Prev.inspection date	:	29/12/2018	
		PAR	т-	I : GENERAL INFORMATIO	N
1.	(a)	Mine Name	:	KARYA (282H)	
	(b)	Registration NO.	:	IBM/4369/2011	
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest	: : : : : : : : : : : : : : : : : : : :	080-25583172 (F),	
2.		ess for espondance	:	Karya Magnesite Mine of Po-Hullahalli, Tq-Nanjar Dist-Mysore, Karnataka-5	ngud
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	KAR0556 86.25 20 23/05/2023	
4.	Miner	al worked	:		ssociated ain

5.	Name	and Address of Lessee	the :	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	
		Owner	:	<pre>FAX :080-22213172 Naveen Raj Singh, IAS & MD Karnataka State Minerals Corp. Ltd TTMC, A Block, 5th Floor, BMTC Building, K.H. Road, Shanthinagar, BANGALORE KARNATAKA Phone: 080-22278813-14 FAX : 080-22213172</pre>	
		Agent	:	Shankarlingaiah Karnataka State Minerals Corp. LTD TTMC Building, A blcok,5th Floor BMTC Bus station, Shanthinagar BANGALORE KARNATAKA Phone: 080-22278813-14-15-16 FAX : 080-22213172	
		Geologist			
		Name	:	R.CHANDRASHEKAR,Full Time	
		Qualification		-	
		Appointment/ Termination da	:		
		Manager			
		Name	:	H J Basavrajappa	
		Qualification		Dip. in Mining, 1ST Class MM Cert.	
		Appointment/ Termination da	:	07/10/2016	
б.		of approval of Scheme of Minin		Mining Scheme rule 12 MCDR19881Renewal under rule 22 MCR19601Modif.of approved Mining Plan1Mining Scheme rule 12 MCDR19880	4/07/1992 6/12/1997 8/06/2003 9/12/2008 6/12/2013 2/02/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	2018-19: 8 nos BHs with 240 total meterage. 2019-20: 8 nos BHs with 240 total meterage.	As on date, 17 core BHs completed/drilled with 495 total meterage.	NIL
1b	Exploration over lease area for geological axis 1 or 2		9.8 Ha	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	24 lakhs	M/s PRB Infraproject Pvt. Ltd. Nagpur; 31.5 lakhs expenditure incurred.	NIL
ld	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Exploration completed as per approved RMP.
le	Balance reserve as on 01/04/20		Magnesite: 210,007 tonnes (Grade: 1 to 6 % SiO2) Dunite: 3,239,500 tonnes (Grade: 35 to 45 % MgO)	Based on last approved RMP dated 2/2/2018
lf	General remarks of inspecting officers on geology, exploration etc			Exploration has been completed as per approved RMP. Entire potentially mineralised area (9.8 Ha) covered under G-1.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	of ML in	As per the approved proposals.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches for	As per the approved proposals.	vein depoist and total 6 nos of benches.

2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.87	<pre>(i)Dunite production also considered. (ii)Cum data (iii) More development for systematic development of benches.</pre>
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	24,370	22,408	BD: 1.8
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development is being carried out as per the approved RMP. Further, corner BPs were well maintained at time of inspection.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Only one pit in southern part of ML. (331 m X 223 m X 40 m)
3b	Quantity of ROM mineral production proposed	Magnesite: 17,059 tonnes	Magnesite: 2,618 tonnes	Besides, 69,521 tonnes of Dunite produced against the proposal of 255,885 tonnes.
3с	Recovery of sailable/usable mineral from ROM production		As per the proposals.	NIL.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	Entire Magnesite produced is being utilised after blending.
3f	Quantity of sub grade mineral generation.	NIL	NIL	Entire Magnesite produced is being utilised after blending.

3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	As per the proposals.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	40% total handling requires drilling & blasting with 100 mm dia wagaon drill & 7 m depth	Carried out as per the proposals.	NIL
3k	Provision of mining machineries in mineral benches	Yes. Excavators and tippers	As per the proposals.	NIL
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m height & 8 m width.	As per the proposals.	NIL
3m	Total area covered under excavation/pits	9.2 Ha	9.2 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.87	<pre>i)Dunite production also considered. (ii)Cum data (iii) More development for systematic development of benches.</pre>
30	Total area put in use under different heads at the end of year	Green belt &	Pit: 9.2Ha Dumps: 19.1 Ha Green belt & afforestation: 6.5 Ha Road & Infra.: 0.85 Ha	NIL

2014-15: 2014-15: 2,429 3p Production of Unit: in tonnes 2015-16: 2,731 ROM mineral 18,389 Besides, 69,521 tonnes of Dunite during the last 2015-16: 2016-17: 3,926 2017-18: 2,439 five year period 19,544 (Minor Mineral) 2018-19: 2,618 produced against as applicable 2016-17: 22,085 the proposal of 2017-18: 255,885 tonnes 23,975 during year 2018-2018-19: 19. 17,059 General remarks Mining is being 3q _____ _____ of inspecting carried out as per officers on the approved RMP. method of mining etc.

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 OB proposed and no top soil generation.	Carried out as per the approved proposals.	e NIL
4b	Location of topsoil, OB and mineral reject dumps	Dump No: 3 (E-750 to 590 & N-1000 to 1400)	Carried out as per the proposals.	e NIL
4c	Number of dumps within lease area and outside of lease area	3 nos Dumps within ML	Actual also same.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside the UPL.	Carried out as per the approved proposals.	e NIL
4e	Number of active and alive dumps.	One	One	NIL
4f	Number of dead dumps.	Two	Two	NIL
4g	Number of dumps established.	Two	Two	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Carried out as per the approved proposals.	e NIL
4i	Length of Retaining wall or garland drain all along dumps	wall and	20 m Retaining wall an garland drain	nd cum. 548 m Retaining wall and garland drain.

4j	Number of settling ponds	One	One	NIL
4k	Specific comments of inspecting officer on waste dump management			Waste dump management is being carried out as per approved RMP.

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.	NIL	NIL	Pit is not matured for back-filling as ore not exhausted.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pit is not matured for back-filling so far as ore not exhausted.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	l st July of every year.	Submitted.	Nil
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL

6d	No. of saplings planted during the year	400 nos of saplings.	500 nos of saplings.	NIL
бе	Cumulative no .of plants	NA	12,000 nos of plants	NIL
6f	Any other method of rehabilitation	Afforestation.	Afforestation.	NIL
бg	Cost incurred on watch and care during the year	NA	1 lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Pit is not matured for back-filling as ore not exhausted.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	250 nos saplings	250 nos saplings	NIL

бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.22 На	0.22 На	NIL
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation.	Afforestation.	NIL
бр	Compliance of environmental monitoring (core zone and buffer zone)	environmental monitoring was	environmental monitoring carried out and all	NIL
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP implementation is being carried out as per the approved proposals.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual	work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting of magnesite within ML.	As the	proposals.	NIL
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual		NIL
7c	Different grade of mineral sorted out at mines.	Different grade of Magnesite ore based on SiO2 content	Actual	also same.	NIL.
7d	Any beneficiation process at mines	NIL	NIL		NIL

7e	General remarks	 There is no
	of inspecting	 mineral
	officer on	conservation issue
	Mineral	as entire
	conservation and	Magnesite produced
	beneficiation	is being utilised
	issues	after blending

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top-soil generation during year 2018-19.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB/wastes proposed at Dump: No-3.	Carried out as per the proposals.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Pit is not matured for back-filling as ore not exhausted.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 400 nos saplings proposed during year 2018-19.	500 nos saplings planted (cum. plantation of 12,000 nos)	Nil
8g	Survival rate	75 %	75 %	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	One water tanker provided for this purpose.	NIL.

8i General remarks ----- Aesthetic beauty of inspecting in and around officer on mining area is aesthetic beauty satisfactory as in and around the mining is mines area being carried out proposals of approved RMP.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Submission of ARs& MRs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME & MM: Shri H. J. Basavarajappa, Geologist: R Chandrashekar	Actual also same.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Actual also same.	NIL
9d	Scrutiny of Annual return on afforestation		Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Magnesite	Same at that time.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Actual also same.	NIL
9h	Scrutiny of Annual return on fixed assets	Rs 1,27,70,525	Actual appear to be same.	NIL

9k	Scrutiny of	SHOVEL	Actual	also	same.	NIL
	Annual return on	(HYDRAULIC)				
	mining	(1.000 CUM) :				
	machineries	2 nos				
		AIR COMPRESSOR				
		:One nos				
		TIPPER (6.000				
		CUM) : 6 nos.				

Details of violations observed during current inspection and compliance position of violation pointed out						
	Violatior	n observed		Show couse position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on Compliance on	
MCDR17 R	ıle 35(2)	30/12/2019	16/03/2020			

Date :

(Prashant S Hegde)

Indian Bureau of Mines