INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/MYS/MG/2/BNG Mine code : 39KAR14002

(i) Name of the Inspecting : 278) KRISHNENDU CHATTERJEE

Officer and ID No.

(ii) Designation : Junior Mining Geologist

(iii) Accompaning mine : Shri H. J. Basavarajappa, Mines Manager

Official with Designation

(iv) Date of Inspection : 06/11/2017
(v) Prev.inspection date : 10/03/2016

PART-I : GENERAL INFORMATION

(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), 94805164'
E-mail : info.mml@nic.in,KARYAMINESI

Phone : 080-25580373 (0), 98453000:

(f) Police Station : Nanjangud
(g) First opening date : 24/05/1983

(h) Weekly day of rest : SUN

Address for : A Block,5th Floor,BMTC Shantinagar,

correspondance TTMC Building,

BANGALURU-560027 (KARNATAKA)

3. (a) Lease Number : KAR0556 (b) Lease area : 86.25

(c) Period of lease : 20

(d) Date of Expiry : 23/05/2023

4. Mineral worked : MAGNESITE Main

5. Name and Address of the

Lessee : MYSORE MINERALS LTD

TTMC BUILDING A BLOCK 5th FLOOR BMTC SHANTINAGAR BANGALORE KARNATAKA Phone:080-25580373 FAX :080-25580372

Owner : S.ZIAULLAH, IAS

39,M.G.ROAD,BANGALORE,

KARNATAKA-560001.
BANGALORE KARNATAKA
Phone: 08395-60401,080
FAX: 080-25583172, 0

Agent : SHANKAR.LINGAIAH

39,M.G.ROAD,BANGALORE, KARNATAKA-560001. BELLARY

KARNATAKA

Phone: 08395-60401,080-25580373 (O),9845300022

FAX : 080-25583172, 0

Geologist

Name : H. THIPPESWAMY, Full Time

Qualification : MSC(GEOLOGY)
Appointment/ : 03/01/2015

Termination date

Manager

Name : H J Basavrajappa

Qualification :

Appointment/ : 07/10/2016

Termination date

Manager

Name : SHANKARALINGAIAH
Qualification : DIP WITH FCC
Appointment/ : 01/06/2006

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 nos. of boreholes	Nil	26 nos. of boreholes has been proposed by the lessee during five year scheme period from F.Y. 2013-14 to 2017-18 against which no borehole is actually drilled till the date of inspection.
1b	Exploration over lease area for geological axis 1 or 2		G1 and G3.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 and G2	G1 and G3	
1e	Balance reserve as on 01/04/20	No proposal	Magnesite: 213,246 tonnes Dunite: 3312,646 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		Violation of Rule 11(1) is issed to the lessee for non-compliance of exploration proposal vide letter no. KNT/MYS/MG/2/BNG dated 21.11.2017.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area		no change	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	Seperate benches a maintained	are

2c	Stripping ratio or ore to OB ratio	1: 0.32	1: 2.6	Actual waste handling was more during the said period.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	111870 tonnes	84432 tonnes	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Production and development during F.Y. 2016-17 was less due to low demand of ore.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Single pit	
3b	Quantity of ROM mineral production proposed	Magnesite: 22,085 tonnes Dunite: 331,275 tonnes	Magnesite: 3,926 tonnes Dunite: 28,600 tonnes	
3с	Recovery of sailable/usable mineral from ROM production	Entire ROM is salable	No change, ROM is manually sorted and segregated.	
3d	Quantity of mineral reject generation	No proposal	Nil	
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 segregation of ROM from interstitial waste.	Manual recovery of magnesite and dunite is 5% and 75% respectively within host rock.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable as entire ROM is salable.	
3ј	Provision of drilling and blasting in mineral benches	Proposed for 40% of mining area.	Drilling and blasting is adopted as and when required since deposit is eratic in nature.	
3k	Provision of mining machineries in mineral benches	2 excavators, 1 front-end loader, 1 air compressor, 1 wagon drill TMC and 10 trippers	1 excavator, 1 air compressor, 1 wagon drill TMC and 4 trippers	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height is 6m	Yes, bench height is maintained as 5 to 6m	
3m	Total area covered under excavation/pits	9.20 Ha.	9.20 Ha. covered by a single pit.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1: 2.6	
30	Total area put in use under different heads at the end of year	37.32 Ha. area by the end of 2017-18	35.25 Ha. in use at present.	untouched area 51.00 Ha.
3p	Production of ROM mineral during the last five year period as applicable	Magnesite 2011-12: 20081 2012-13: 23673 2013-14: 17962 2015-16: 18389 2016-17: 22085	2012-13: 2903 2013-14: 533 2015-16: 2429	
		Dunite 2011-12: 357135 2012-13: 363515 2013-14: 269430 2015-16: 293160 2016-17: 331275 (in tonnes)	Dunite 2011-12: Nil 2012-13: Nil 2013-14: 378 2015-16: 5000 2016-17: 28600 (in tonnes)	

3q General remarks
 of inspecting
 officers on
 method of mining
 etc.

Production deviation of magnesite and dunite during F.Y. 2016-17 were -82.2% and -91.3% respectively due to low market demand of ore.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping of OB	Yes, mining area is deviod of top soil.	
4b	Location of topsoil, OB and mineral reject dumps	Active waste dump proposed towards west of the working pit.	No change.	One active dump and two inactive waste dumps located within the
4c	Number of dumps within lease area and outside of lease area	3 dumps within ML	No change, one active dump	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.		No change.	Active dump extent 4.52 Ha.
4f	Number of dead dumps.	two dead dumps	No change	
4g	Number of dumps established.	No proposal	One inactive dump partly stabilized by plantation, 0.2 Ha.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed all along the toe of the active dump during the scheme period	528 m of retaining wall and garland drain is constructed so far.	
4i	Length of Retaining wall or garland drain all along dumps	660m during the scheme period.	528m so far, work in progress.	
4ј	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management		No deviation in repect of waste dump management is found during site inspection.	

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	Not applicable since mineral is not exhausted in the mine pit.	
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	No top soil generated during 2016-17.	Mine pit is devoid of any top soil.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No deviation w.r.t backfilling was observed during the course of MCDR inspection on 06.11.2017.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	0.2 Ha. by plantation along inactive dump	
6c	afforestation done (ha).	1.40 Ha.	1.35 на.	
6d	No. of saplings planted during the year	300 nos.	apprx. 500 nos.	
6e	Cumulative no .of plants	2500 nos.	2700 nos.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	Not specified	Apprx. Rs. 20,000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	No reclamation and rehabilitation done by backfilling since mineral still persists in the bottom of working mine.
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)Afforestati on on backfilled area	No proposal	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
61	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	Only revenue and patta lands involved within ML.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	No waste land involved within ML.	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	No waste land involved within ML.	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out periodically	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No deviation w.r.t Progressive Mine Closure Plan was observed during the course of MCDR inspection on 06.11.2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting of ROM, seperately for magnesite and dunite	No change.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	10 to 300mm	10 to 200mm; 10 to 300mm	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No deviation w.r.t mineral conservation was observed during the course of MCDR inspection on 06.11.2017.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil generation within mine pit.	

8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given only for waste rocks		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste will be used during Final Mine Closure for back filling	Not applicable as of now.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed during Final Mine Closure	Phased reclamation and rehabilitation of inactive dumps is in progress.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Yes	
8g	Survival rate	60 to 70%	Appear to be correct	
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out by water tankers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine is operating from last 35 years in same location/pit, no deviation w.r.t environment was observed during the course of MCDR inspection on 06.11.2017.

Actual work

Remarks

Compliance of Rule 45:

Propasals

Item

Sl.No.

9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to December- 2017 A.R. Submitted up to 2016-2017	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Mines: Shri H J Basavrajappa Mining Engineer: Shri H J Basavrajappa Geologist: Shri H Thippeswamy.	Geologist: Shri R.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working: 9.2Ha. Used for waste	Appear to be correct.
9d	Scrutiny of Annual return on afforestation	500 nos.	No change
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation in the mine
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Magnesite stocked at eastern side on the pit. Dunite stocked over the top of inactive dumps 1 and 2.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Appear to be correct
9h	Scrutiny of Annual return on fixed assets	Rs. 7237961/-	Mining machineries owned by the company are present within ML area.

9k Scrutiny of Annual return on no., Air

mining machineries

compressor: 1 mentioned. no., Tipper:

Excavator: 1 No change except one no., Air wagon drill not

4nos.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation	n observed	Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on
MCDR17 Rule 11(1)	21/11/2017		

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines