

**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/13/BNG

**Mine code :** 39KAR14013

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SRI.Y.NARAYANA RAO, Agent.**  
Official with  
Designation
- (iv) Date of Inspection : 03/01/2020
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TALLOORU**
- (b) **Registration NO.** : **IBM/4375/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **MYSORE**
- Village : **THALLOORU**
- Taluka : **MYSORE**
- Post office : **TALLOORU**
- Pin Code : **571311**
- FAX No. : **0821-2463789 (F),9341625511**
- E-mail : **rajashekar\_mys@yahoo.com**
- Phone : **0821-2463789 (O), 934211038**
- (f) **Police Station** : **MYSORE SOUTH**
- (g) **First opening date** : **23/04/2005**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **SRI.N.RAJASHEKAR,**  
**TALLOORU VILLAGE, P.O TALLOORU,**  
**VIA KADAKOLA, MYSORE -571311.**
3. (a) **Lease Number** : **KAR1537**
- (b) **Lease area** : **11.88**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **22/04/2025**
4. **Mineral worked** : **MAGNESITE** **Main**

## 5. Name and Address of the

Lessee : N. RAJSHEKHAR  
           MYSORE KARNATAKA  
           Phone:  
           FAX :

Owner : N. RAJSHEKHAR  
           MYSORE KARNATAKA  
           Phone:  
           FAX :

Agent : Y.NARAYAN RAO  
           MYSORE KARNATAKA  
           Phone:  
           FAX :

Manager  
 Name : K.RAJAGOPALAI AH  
 Qualification : DIP.IN MINING ENGINEER , IInd CLASS HOLD  
 Appointment/ : 15/10/2005  
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	28/05/2007
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	09/01/2008
	:	Mining Scheme rule 12 MCDR1988	29/09/2015

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	NO proposals.	Already 7.10 ha raea covered out of 12.10 ha.	Yes as per the approved document in 2015.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals.	Nil	Nil, done earlies through some agency.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	5.00 ha as per the extent of the area.	Out of the 5.00 ha, it covers dumping, common boundary area.
1e	Balance reserve as on 01/04/20	Given	0.113 MMT high grade of Mgo-35%, Cao-3%, Max Fe2O3-3.3%. 0.906 MMT of low grade as on 1.04.2015.	same as above.
1f	General remarks of inspecting officers on geology, exploration etc	No proposals.	For the current period 2018-19 & 2019-20 , no proposals & actual.	Every thing done in earlier period.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Given in NW	Yes it is progress in NW in Pit no.1	Yes it is in pit no.1.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Given in the approved document.	In reality almost in all the benches ore and the waste is present.	yes it is done with machine and segrgated manually.
2c	Stripping ratio or ore to OB ratio	1:03.21	1:3.69	Slightly more.
2d	Quantity of topsoil generation in m3	No proposals.	nil	nil
2e	Quantity of overburden generation in m3	5054 m3	5045 m3	almost same.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Given	work is going on as per the approved document.	As above.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit No.1 as per the approved doccument.	yes single pit No.1.	Same.
3b	Quantity of ROM mineral production proposed	10108cum	7200cum	Less than the approved quantity.
3c	Recovery of sailable/usable mineral from ROM production	proposed	75%	Yes as above.
3d	Quantity of mineral reject generation	Given proposals for 2325 m3	Actual is 1015 cum	less than the proposed.
3e	Grade of mineral rejects generation and threshold value declared.	Proposed.	+25 and -35%	yes within the limit.
3f	Quantity of sub grade mineral generation.	given 2426 cum	nil	nil
3g	Grade of sub grade mineral generation	proposed	nil	nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method.	yes adopted manual	yes manual is followed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	nil
3j	Provision of drilling and blasting in mineral benches	No proposals.	Rock breaker is being used	yes Rock breaker is being used

3k	Provision of mining machineries in mineral benches	yes proposed	Rock Breakers is used.	Rock Breakers is used for working faces.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	6 mtr Bench, and widths.	yes it is followed.
3m	Total area covered under excavation/pits	2.936 ha	2.936 ha	as on 2015.
3n	Ore to OB ratio for the pit/mine during the year.	given, 1:3.022	1:3.69	slight difference.
3o	Total area put in use under different heads at the end of year	1500 Sqm	1400 Sqm	as above.
3p	Production of ROM mineral during the last five year period as applicable	54190 cum	37321 cum	slight difference.
3q	General remarks of inspecting officers on method of mining etc.	proposed	work is done as per the proposals.	yes done as per the proposals.

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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)	Given appropriately.	yes OB waste dump is being carried out in the mine, on the Northern side.	Only waste dump is done and not MR & top soil.
4b	Location of topsoil, OB and mineral reject dumps	given	waste dump is on the north & others are nil.	as above.
4c	Number of dumps within lease area and outside of lease area	given one dump.	single dump is being used.	yes only one.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northern side of lease boundary	Northern side of lease boundary	same as above.

4e	Number of active and alive dumps.	1 No active to 1 Dump	1 No active to 1 Dump	same no change.
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	485 mtr	485 mtr provided	same no chnages.
4i	Length of Retaining wall or garland drain all along dumps	485 mtr	485 mtr provided	same no changes.
4j	Number of settling ponds	One only	single	yes single only.
4k	Specific comments of inspecting officer on waste dump management	Proposed	carrying out within single dump, dunite s also accomodated at present.	Later they want to sell as it is to the party.

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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 proposals.	Nil	Nil, no area is matured for back filling.
5b	Area under backfilling of mined out area	No proposals.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposals.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals.	No area is matured for back filling.	yes mine is active and no area is matured for back filling atr present.

## 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).	submitted	submitted as per the format	Nil
6b	Area available for rehabilitation (ha) .	No proposals.	Nil	Nil
6c	afforestation done (ha).	No proposals.	Nil	Nil
6d	No. of saplings planted during the year	No proposals.	Nil	Nil
6e	Cumulative no .of plants	No proposals.	Nil	Nil
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposals.	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposals.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposals.	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals.	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals.	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Given proposals.	Yes done.	Yes done for air..only.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposals.	As per the approved mining plan it is being done.	Not much of the work is possible at present.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	H.G.:303 cum L.G.:2426 cum	909 M.T. 7278 M.T.	As it is being done.

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Given for Manual	yes it is being done manually	yes as above.
7c	Different grade of mineral sorted out at mines.	H.G. Sio2 2.5 to 4.5% S.G.+6%to12%Si o2	H.G. Sio2 2.5 to 4.5% S.G.+6%to12%Sio2	No changes.
7d	Any beneficiation process at mines	No proposals.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Given proposals.	Yes carrying out as per the proposals.	Yes it is done.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	If encountered such top soil, it will be used as and when required.	Rarely it is being done.
8b	Concurrent use or storage of topsoil	No proposals.	There is no top soil available however Top Soil is being used for plantation	As above.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for waste dumps	Separate O.B. Dump, waste reject kept together.	yes it is done.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	nil	Effective plantation done to restoring original use

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	Nil	Nil, no provision for the same at present.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	There are existing plantations within the ML area.	not much plantations available in the Ml area, however lessee done some plantations wherever applicable.
8g	Survival rate	given	75%	as above
8h	Water sprinkling on roads to control airborne dust	Dust Suppression by water tanker sprinkler	Dust Suppression by water tanker sprinkler	yes the lessee doing regularly.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Given suitable proposals.	Yes the lessee did as much as possible within the lease and maintained.	yes satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes submitted	yes submitted up to december, 2019 and the AR for the year 2018-19.	submitted as per the format
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given as per the format	S/Shri. Y. Narayan Rao is the Agent, Rajagopalaiah is the manager cu, Mining engineer & Somashekar is the Geologist.	yes they were present during the inspections.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	All area comes under non forest, 3.3 ha =current working, waste dump=2.1 ha, 0.1 ha is plant buildings, 6.51 ha is the other purposes, roads & green belts. etc.,	Appropriate.

9d	Scrutiny of Annual return on afforestation	Given in theretrurn	1000 nos within the ML area & 200 nos in outside the ML area. with almost 80% survival.	same as above.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given in the return	5550 tonnes with sio2-20	as above.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given in the returns	OC working Opening stock is 2070 tonnes, 200 tonnes of prodcution for the year & closing stock is 2270tonnes. dump working opening stock is 2070 tonnes, 200 tones of production from the dump workings, closing stock in the dump working is 2270 tonnes.	yes as above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the retrruns	Rs. 5501.34/tonne of Magnesite is the ex-mine prices. Cost of production is Rs. 3745/t of ore of Magnesite. the sale value of the magnesite is rs.433/t of Magnesite.	same as above.
9h	Scrutiny of Annual return on fixed assets	Given in the returns.	Not reported.	Nil.
9k	Scrutiny of Annual return on mining machineries	given in the returns.	yes reported as per the usage in the mines, various machines.	yes reported in the appropriate column.

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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
MCDR17	Rule 45(7)(a)	18/02/2020			

**Date :**

**(C.PARAMESHWARAN)**

Indian Bureau of Mines