

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/MYS/MG/13/BNG

Mine code : 39KAR14013

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Y. Narayan Rao, Agent, D.r C.P. Prasanna Kumar, Q
Official with
Designation
- (iv) Date of Inspection : 27/01/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TALOORU**
- (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 : **THALOORU**
- Taluka : **MYSORE**
- Post office : **TALOORU**
- 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,**
TALOORU VILLAGE, P.O TALOORU,
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
	:	MP review under 17(1) MCR 2016	05/02/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	9 Trial pits and 03 trenches proposed from 2015-16 to 2017-18.	Completed	As reported by the Lessee.
1b	Exploration over lease area for geological axis 1 or 2	No Exploration proposal for the year 2019-20	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	Exploration was not carried out during the year 2019-20.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-3 area of 1.25 ha.	Trial pits & trenches carried out in G-3 area.	-
1e	Balance reserve as on 01/04/20	0.824 million tonnes with grade MgO-35%(min), CaO-3%(max), Fe2O3-3%(Max), as on 01.04.2019	105940 tonnes of Magnesite Ore as on 1.04.2020.	As per AR 2019-20. The Mineral Reserve & Resources are not updated as on 1.4.2020 after depletion of the production from the reserves of the latest approved document. Violation issued under Rule 45(7)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	i)The details of Mineral Reserve & Resources as given in Sec 3 of AR 2019-20 are not correct as per the latest approved document for the period 2020-21 to 2024-25. The production quantity for the year 2019-20 to be depleted from the reserves and figures to be reported accordingly. Violation issued under Rule 45(7)

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No 1 N-1362794 to 1362841 E-678728 to 678772	The development carried out within the proposed extent.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB & mineral.	Separate benches maintained in OB & mineral	OB-2 benches, 4 metres height and mineral 3 benches 4 metres height.
2c	Stripping ratio or ore to OB ratio	1:2.70(in Cum)	1:3.45(in Cum)	Ore production- 5000 tons~1666 Cum, Waste- 14755 tons~4918Cum, Mineral reject. 2500 tons~833 Cum
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Nil
2e	Quantity of overburden generation in m3	5054 Cum	4918 Cum	As per AR 2019-20(14755 tons)
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development in the mine carried out within the proposed extent as per the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed (Pit no-1)	Actual working carried out in one pit.(Pit no-1)	Nil
3b	Quantity of ROM mineral production proposed	30324 tons	22255 tons	The total quantity of ROM ore production during the year 2019-20 has not been reported correctly in AR 2019-20. Violation issued under Rule 45(7).

3c	Recovery of sailable/usable mineral from ROM production	27 % (8187 tonnes of Magnesite)	22.4 % (5000 tonnes of Magnesite)	Violation issued
3d	Quantity of mineral reject generation	2325Cum	833 Cum	Violation issued.
3e	Grade of mineral rejects generation and threshold value declared.	Not mentioned (Below threshold value of magnesite and considered as waste)	SiO ₂ - 20%. (Waste)	(As per AR 2019-20).The Grade of the mineral reject generated has not been reported correctly in AR 2019-20.
3f	Quantity of sub grade mineral generation.	7278 tonnes	4350 tonnes	—
3g	Grade of sub grade mineral generation	MgO-35+ %,	MgO-35+ %,	—
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting and sizing of the Magnesite ore proposed	Manual sorting and sizing of the magnesite ore carried out	—
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal for drilling & Blasting.	No drilling and blasting carried out	Nil
3k	Provision of mining machineries in mineral benches	i)Excavator-1.5 Cum-2 nos. ii)Rock breaker-1 no. iii)Tipper-10 tons-2 nos. iv)Water tanker-5000 litres-1no. v)Wheel Loader-1	i)Shovel-0.65 Cum-1 no. ii) Tipper-4.5 Cum- 2 no. iii)Water tanker-12000 litre-1 no. iv)Front end Loader-1 No	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Height 6m for Mineral bench	Height of the bench within the proposed limit. 4m height maintained for both Overburden and Mineral bench.	OB-2 benches, 4 metres height and mineral 3 benches 4 metres height

3m	Total area covered under excavation/pits	4 ha	4 ha	As per AR 2019-20.
3n	Ore to OB ratio for the pit/mine during the year.	1:2.70(in Cum)	1:3.45(in Cum)	Ore production- 5000 tons~1666 Cum, Waste- 14755 tons~4918Cum, Mineral reject. 2500 tons~833 Cum
3o	Total area put in use under different heads at the end of year)Area under Mining- 4 ha ii) Overburden dump- 2.6 ha iii)Mineral storage- 0.105 ha iv) Infrastructure & roads- 0.548 ha. v)Green belt + R&R- 0.52 ha as pert the ;attest approved document for the period(2020-21 to 2024-25)	i) Covered under current (O/c) workings- 4 ha. ii)Waste disposal- 2.6 ha iv) Occupied by Plants, buildings, residential, welfare& roads-0.1 ha. v)Other purpose- 5.310 ha	(As per land use reported in AR 2019-20). The land use under different headings (Infrastructure & Others) in AR 2019-20 have not been reported correctly. Violation issued under Rule 45(7)
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 8187 tons 2016-17: 8187 tons 2017-18: 8187 tons 2018-19: 8187 tons 2019-20: 8187 tons (in tonnes)	2015-16: 5430 tons 2016-17: 4465 tons 2017-18: 5980 tons 2018-19: 6490 tons 2019-20: 5000 tons (in tonnes)	(Magnesite saleable ore production)

3q	General remarks of inspecting officers on method of mining etc.	-	-	<p>i)The total ROM (Magnesite ore) production proposed for the year 2019-20 is 8187 tonnes against which only 5,000 tonnes of ROM (Magnesite ore)production has been done. The deviation in the overall Magnesite ore production is 39 % less than the approved proposal. Violation issued</p> <p>ii)The total Mineral Reject quantity proposed for the year 2019-20 is 2325 Cum against which only 833 Cum of Mineral Reject is generated. Violation issued</p> <p>iii)The land use (area in ha) in AR 2019-20 are not reported cor</p>
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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 proposed for Waste/Mineral Reject.	Separate dumping maintained for Waste/Mineral reject as per the proposal.	Mineral Reject a is waste and is proposed to be dumped along with waste in the proposed waste dump.
4b	Location of topsoil, OB and mineral reject dumps	Waste dump. N-1363006 to 1363051 E 678710 to 678883.	Waste dump maintained within the proposed extent as per the proposal	Waste dump is at the northern part of the Lease

4c	Number of dumps within lease area and outside of lease area	2 waste dumps(1 Active dump + 1 dead dump) inside the Lease area	2 waste dumps(1 Active dump + 1 dead dump) inside the Lease area.	1 Active dump present at the northern part of the lease and 1 small inactive (dead) waste dump present at the southern portion of the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Both waste dumps within UPL	Both waste dumps within UPL.	1 Active waste dump present at the northern part of the lease and 1 small inactive (dead) waste dump present at the southern portion of the lease.
4e	Number of active and alive dumps.	1 active waste dump proposed.	1 active waste dump present and used for waste dumping.	Nil
4f	Number of dead dumps.	1 small dead waste dump.	1 small dead waste dump present inside the Lease area.	Southern portion of the lease.
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & Garland drain proposed along the proposed waste dump	Retaining wall and garland drain construction have not been completed as per the proposal	Violation issued.
4i	Length of Retaining wall or garland drain all along dumps	485 m Retaining wall, 1175 m garland drain proposed along the waste dump and 380 m safety bund all along the lease area.	Retaining wall, garland drain and Safety bund construction have not been completed as per the proposal	Violation issued.
4j	Number of settling ponds	2 silt settling tanks proposed in the year 2015-16 & 2016-17	Silt settling tanks were not found constructed as per the proposal.	Violation issued

4k	Specific comments of inspecting officer on waste dump management	-	-	<p>i)The construction of 485 m retaining wall and 1175 m garland drain has been proposed for the year 2015-16 and 380 m safety bund all along the Lease area in 2019-20. It is observed during inspection that the retaining wall, garland drain and safety bund construction have not been completed as per the proposal. Violation issued.</p> <p>ii) Two Silt Settling tank has been proposed in the year 2015-16 & 2016-17. It was observed during inspection that no silt settling tank construction has been carried out</p>
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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 proposal	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	There is no specific backfilling reclamation proposal
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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).	To be submitted before 1st of July every year	Annual PMCP report for the year 2019-20 not submitted	Violation issued.
6b	Area available for rehabilitation (ha) .	0.20 ha (Waste dump & buffer zone, Haulage roads, office/canteen etc.)	0.20 ha (Waste dump & buffer zone)	As reported by the Lessee during inspection. The figures couldn't be verified as Annual PMCP report have not been submitted by the Lessee
6c	afforestation done (ha).	0.20ha	0.20 ha within the ML area(Waste dump & buffer zone)	As reported by the Lessee during inspection.
6d	No. of saplings planted during the year	1000 nos. of plants proposed (200 Waste dump & 800 buffer zone)	1000 nos. of plants inside ML area and 200 nos. of plants outside ML area with 80 % survival rate.	As reported in AR 2019-20.
6e	Cumulative no .of plants	8000 nos. of plants.	10000 nos. of plants.(Inside ML area)	As reported by the Lessee during inspection.
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	2 Lakhs	2 lakhs	As reported by the Lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil	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	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed for Air, water & Noise.	Environmental monitoring carried out for Air, Water & Noise.	Environmental Report of Sep-2019 available. All environmental parameters within limit.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Yearly report on PMCP setting forth the extent of protective and rehabilitative works carried out as per the approved Progressive mine closure plan, has not been submitted for the year 2019-20. Violation issued
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting & sizing of Magnesite ore proposed	Manual sorting & sizing carried out for Magnesite ore.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting & sizing of Magnesite ore	Manual sorting & sizing carried out for Magnesite ore.	Size: - 6mm to 35mm(C-ore) -40 to +10mm(C-ore) -10 mm fines, Grade:- MgO-35%+
7c	Different grade of mineral sorted out at mines.	High grade: (MgO-42 %+), Subgrade: (MgO-35 %+)	High grade: (MgO-42 %+), Subgrade: (MgO-35 %+)	Nil
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The Mineral conservation activities carried out inside the mine as per the proposal.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for Waste	Separate dumping maintained for waste at the proposed location.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	8000 nos. of plants.	10000 nos. of plants.	As reported by the Lessee during inspection
8g	Survival rate	Not mentioned	80% survival rate both within ML area and outside ML area.	As reported in AR 2019-20.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed	Water sprinkling carried out as per the proposal	One Water sprinkler of capacity 12 KL used in the mines for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_	_	The aesthetic beauty in and around the mine looks very 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 Oct-2020. ***** A.R. of the year 2019-20 submitted on 13.08.2020	M.R. Submitted up to Oct-2020. ***** A.R. of the year 2019-20 submitted on 13.08.2020	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shri K. Rajagopalaiah ii) Geologist- Dr. Prasanna Kumar iii) Manager- K. Rajagopalaiah	The Mining Engineer was not present during inspection.	As per the provision of Rule (55), a whole time Mining Engineer have to be appointed for category 'A' mine. Violation issued under Rule 55
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) Covered under current (O/c) workings- 4 ha. ii)Waste disposal- 2.6 ha iv) Occupied by Plants, buildings, residential, welfare& roads-0.1 ha. v)Other purpose- 5.310 ha	The land use (area in ha) in AR 2019-20 are not correctly reported as per the latest approved document.	Violation issued
9d	Scrutiny of Annual return on afforestation	1000 nos. of plants with 80 % survival rate within the ML area and 200 nos. of plants with 80 % survival rate outside ML area.	Appears to be correct	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	2500 tons with SiO ₂ -20 %	The Grade of the mineral reject generated has not been reported correctly.	Violation issued

9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s- 0 tons ROM Production- 24755 tons C/s- 19755 tons Graded Magnesite ore- 5000 tons	The ROM ore production and Closing stock have not been reported correctly.	Violation issued
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production- 4273/ton Ex mine price- Rs. 5380.24/ton	The Ex-mine price not reported correctly	Violation issued
9h	Scrutiny of Annual return on fixed assets	Rs. 8240000 including industrial, Plant & machinery & capitalized expenditure.	Appears to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	i)Shovel-0.65 Cum-1 no. ii) Tipper-4.5 Cum- 2 no. iii)Water tanker-12000 litre-1 no. iv)Front end Loader-1 No	Appears to be correct.	Nil

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	11/02/2021				
MCDR17 Rule 26(2)	11/02/2021				
MCDR17 Rule 55(1)(1)	11/02/2021				
Rule 45(7)	11/02/2021				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines