INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file NoTN/SLM/MG-18.MDS		**Mine code – 39TMN11009**
(i)	Name of the inspecting officer & Designation	**KUMERESH A** Senior Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Sri. P.G. Thankachan – Mines Manager Sri. B. Rajesh Kumar – Mining Engineer Sri. Dhinesh Kumar - Mining Engineer Sri. Abdul Nisaar – Geologist
(iii)	Date of inspection	25.06.2024
(iii)	Date of previous inspection	22.09.2023
PART-I: General Information		
1.	Mine Name	SRI PONGURU MAGNESITE MINES
(b)	Registration Number	IBM/5017/2011
(c)	Category	A
(d)	Type of Working	Opencast
(e)	Postal Address State District Village Taluka Post Office Pin Code FAX No. E-mail Phone	Sri. S.SUNDARARAJAN, D.No.5/22-A, Periyakollapatti,Kannankuruchi Post, Gorimedu, SALEM-636 008. pongurumagnesitemines@gmail.com
(f)	Police Station	Suramangalam
(g)	First opening date	02.09.1965
(h)	Weekly day of rest	Sunday
2.	Address for correspondence	Sri. S.SUNDARARAJAN, D.No.5/22-A, Periyakollapatti,Kannankuruchi Post, Gorimedu, SALEM-636 008. pongurumagnesitemines@gmail.com
3.	Lease Number	TMN0384
	Lease Area	77.5 Ha
	Period of lease	50 years
	Date of expiry	31.03.2030
4.	Mineral worked	Magnesite
5.	Name and address of the Lessee:	Sri. S.SUNDARARAJAN

	Owner: Agent: Manager: Engineer: Geologist: 	 Sri. S.SUNDARARAJAN, D.No.5/22-A, Periyakollapatti,Kannankuruchi Post, Gorimedu, SALEM-636 008. pongurumagnesitemines@gmail.com Nil Sri. **P.G. Thankachan**, Mines Manager, Sri Ponguru Magnesite Mines, Jagir Ammapalayam Village, Salem- 636 **Sri. B. Rajesh Kumar**, Mining Engineer, Sri Ponguru Magnesite Mines, Jagir Ammapalayam Village, Salem- 636 302. Cell-9585007676 Date of appointment: 01.02.2018 **Sri. Abdul Nisaar**, Mine Geologist , Sri Ponguru Magnesite Mines, Jagir Ammapalayam Village, Salem- 636 302. Date of appointment: 16.11.2020.
6	Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.	TN/SLM/MP/MG-269-MDS/Dt.19.09.1989. TN/SLM/MG/ROMP/1529.MDS/Dt.14.11.2018. (ROMP & PMCP)
	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.	Renewal under Rule 22 MCR 1960: 31.05.2000 Mining Scheme rule 12 MCDR 1988: 12.11.2004 Mining Scheme rule 12 MCDR 1988: 24.04.2009 Mining Scheme rule 12 MCDR 1988: 07.04.2014 Mp review under 17(1) MCR 2016: 13.11.2018

PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER
EXPLORATION

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	10 boreholes were proposed	13 boreholes were drilled	Form I was submitted
1b	Exploration over lease area for Geological axis 1 or 2.	10 additional boreholes were proposed for G1	13 boreholes were drilled for G1	Entire Lease area is explored to G1 category
1c	Exploration Agency &	-	-	

	Expenditure in lakh Rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1	Entire Lease area is explored to G1 category at 100mX100m grid
1e	Balance reserves as on 01.04.2024 (111 Category)	Magnesite as on 01.04.2024: Proved mineral reserves(111):9460602 Te Pre-feasibility mineral resources(221):10945264 Pre-feasibility mineral resources(222):14752481	Magnesite as on 01.04.2024: Proved mineral reserves(111):10997607 Te Pre-feasibility mineral resources(221):10945264 Pre-feasibility mineral resources(222):14752481	The available grade of Magnesite in this lease area is Refractory Grade
1f	General comments of inspecting officer on geology, exploration etc.	Located at the foothills of Shevoroys. Due to weathering action, outcrop of Magnesite looks like chalk hills	The belt comprises of intrusive Dunite, Peridotite, Pyroxenite & bMagnesite ore	Magnesite deposit occurs as veins in the ultrabasic rocks

DEVELOPMENT

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	Nil	Nil	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	3 benches in OB 3 benches in Minerals.	3 benches in OB 3 benches in Minerals.	Nil
2c	Stripping ratio or ore to OB ratio	1:13.28	1:15.16	Due to less production, the stripping ratio was not achieved as proposed. Violation letter was issued
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	Violation letter was issued

EXPLOITATION

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	3	3	Nil
3b	Quantity of ROM mineral production proposed	74386	24958	
3c	Recovery of salable/usable mineral from ROM production	93% Recovery	95% Recovery	Nil

3d	Quantity of mineral reject generation	882002	756892	
3e	Grade of mineral rejects generation and threshold value declared.	Peridotite and Dunite are considered as mineral rejects	Peridotite and Dunite are considered as mineral rejects	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanized method adopted for segregating from ROM	Manual Sorting	Manual Sorting	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Ore is manually picked from intercalated waste	Nil
3j	Provision of drilling and blasting in mineral benches	Wagon Drill & Jack Hammer	Wagon Drill & Jack Hammer	As per proposal
3k	Provision of mining machineries in mineral benches	Hyd. Excavator – 9 Rock Breaker – 1 Wagon Drill – 2 Jack Hammer – 4 Compressor – 2 Leyland Tippers – 12 AMW & Mahindra - 0 Back Hoe - 1 Water Tankers – 2 Dozer - 1	Hyd. Excavator – 9 Rock Breaker – 1 Wagon Drill – 2 Jack Hammer – 4 Compressor – 2 Leyland Tippers – 12 AMW & Mahindra - 0 Back Hoe - 1 Water Tankers – 2 Dozer - 1	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in RoMP	Yes. A" Category, other than fully mechanized opencast working. Mineral Bench Height – 6.5m	Yes. As per proposal	Suitable for method of mining
3m	Total area covered under excavation/pits	38.12 Ha	38.12Ha	Within proposed limits
3n	Ore to OB ratio for the pit/mine during the year.	1:13.28	1:15.16	Due to less production, the stripping ratio was not achieved as proposed. Violation letter was issued
3o	Total area put in use under different heads at the end of year	Mining:39.38 Ha Dump:24 Ha	Mining:39.38 Ha Dump:24 Ha	Within proposed limits
3p	Production of ROM mineral during the last five-year period as applicable	2019-20=1084040 Ts 2020-21=1079108 Ts 2021-22=1092915 Ts 2022-23=1080053 Ts 2023-24=1062653 Ts	2019-20=426929Ts 2020-21=502032Ts 2021-22=534441Ts 2022-23=479183Ts 2023-24=781850Ts	Nil

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

SOLID WASTE MANAGEMENT-DUMPING

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Over Burden: Waste is proposed to Dump over existing Dump 1 to 7	Over Burden: Waste is Dumped over existing Dump	Nil
4b	Location of topsoil, OB and mineral reject dumps	Over Burden: Waste is proposed to Dump over existing Dump 1 to 7	Over Burden: Waste is Dumped over existing Dump	Nil
4c	Number of dumps within lease area and outside of lease area	Lease Area : 7 Outside lease area: Nil	Lease Area : 7 Outside lease area: Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump Located around the Ultimate Pit Limit	Dump Located around the Ultimate Pit Limit	Nil
4e	Number of active and alive dumps.	7	7	Nil
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.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	--	--	Waste dump management was found satisfactory.

SOLID WASTE MANAGEMENT-BACKFILLING

S. No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NIL	NIL	NIL
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mined 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	--	--	

PROGRESSIVE MINE CLOSURE PLAN

S. No.	Item	Proposals	Actual Work	Remarks

6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26 (2)	Yes	Yes, submitted to IBM	Nil
6b	Area available for rehabilitation (ha).	NIL	NIL	NIL
6c	Afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	300 Nos saplings over 1.0 Ha in safety zone	1000 Nos saplings over 1.15Ha in safety zone	
6e	Cumulative no. of plants			Cumulative 40500 within ML and 4750 outside ML
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NIL	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	NIL	NIL	NIL
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)Afforestation backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	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	NIL	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Monitoring carried out by Government and private agencies.	Environmental parameters were within permissible limits
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Anually survey	Complied as per proposal on season wise.	As proposed in Review of mining plan.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	Cumulative 40500 within ML and 4750 outside ML

MINERAL CONSERVATION

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1062653-ROM 74386-Saleable ore	781850-ROM 24958-Saleable ore	-
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	Manual sorting of magnesite	Manual sorting of magnesite	Manual sorting
7c	Different grade of mineral sorted out at mines.	Refractory Grade Mgo-35-495% Cao-0.5-2.5%	Refractory Grade Mgo-35-495% Cao-0.5-2.5%	-
7d	Any beneficiation process at mines	No	No	-
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues		-	Manual sorting and sizing

ENVIRONMENT

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Nil	Nil	Nil
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)	Planted – 300	Planted –1000	Cumulative 45250
8g	Survival rate	Nil	50%	-
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling done on haul roads	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	The aesthetic beauty in and around mines area was found satisfactory.

COMPLIANCE UNDER RULE-45

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	B. Rajesh Kumar -Mining Engineer Dhinesh Kumar S – Mining Engineer Abdul Nisar -Geologist and P.G. Thankachan - Mines Manager	Mining Engineer and Geologist Were available during the inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining:39.38 Ha	Mining:39.38 Ha	
9d	Scrutiny of Annual return on afforestation	1000 Plants		Cumultive 40500 plants
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject is included in the waste quantity	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Achieved ROM=781850 Ts	Out of 781850 Tonnes of ROM, 24958 Tonnes is ore and 756892 Tonnes as intercalate waste	Mine dispatch -29857 Tonnes of Magnesite And Closing stock:23101 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	4797.58	-
9h	Scrutiny of Annual return on fixed assets			Provided in part -II (A)
9i	Scrutiny of Annual return on mining machineries	Surface Miner-1,Shovel-1,Dozer-1,Tipper-15, and Water tanker-1 Pump (Elec)-3	Machineries as proposed were available at site	

Details of violations observed during current inspection and compliance position of violations pointed out					
Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1)	08.07.2024	16.09.2024			

KUMERESH A
SrAsst Controller of Mines

Date:

Indian Bureau of Mines