

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

Mining Plan Modification REPORT

Chennai regional office

Mine file No : TN/SLM/MG - 36, MDS

Mine code : 39TMN11011

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : A.K.Jayson, Director & jawahar vishnu bala Mines mang
Official with
Designation
- (iv) Date of Inspection : 21/09/2023
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KONDAPPANAICKENPATTI**
- (b) **Registration NO.** : **IBM/14090/2012**
- (c) **Category** : **A Manual**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TAMIL NADU**
- District : **SALEM**
- Village : **KONDAPPANAICKENPATTi**
- Taluka : **SALEM**
- Post office : **KANNANKURCHI**
- Pin Code : **636008**
- FAX No. : **0427-2317559**
- E-mail : **indiamagnesia@gmail.com**
- Phone : **0427 - 2313218, 0427-23159!**
- (f) **Police Station** : **KANNAKURICHI**
- (g) **First opening date** : **20/08/1993**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **KONDAPPANAICKENPATTI .VILLAGE**
correspondance : **KANNANKURICHI.PO.**
: **SALEM.TALUK & DIST.TN.**
3. (a) **Lease Number** : **TMN1626**
- (b) **Lease area** : **19.02**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **07/08/2036**
4. **Mineral worked** : **MAGNESITE** **Main**

5. Name and Address of the

Lessee : M/s INDIANA MAGNESIA PRODUCTS LTD
 III rd, FLOOR, BALAJI
 TOWERS SALEM SALEM TAMIL
 NADU
 Phone:0427 - 413218 / 415955
 FAX :0427 - 417559

Owner : SHRI H. SANYAL
 IIIrd, FLOOR BALAJI TOWERS
 SALEM SALEM TAMIL NADU
 Phone: 0427 - 413218 /
 FAX : 0427 - 417559

Agent : A.K.Jayson
 IMPL Salem SALEM TAMIL
 NADU
 Phone: 9442622348
 FAX :

Mining Engineer

Name : Jawahar vishnu Bala,Full Time
 Qualification : BE (Mining)
 Appointment/ : 01/01/2018
 Termination date

Geologist

Name : A.Nagaraju,Full Time
 Qualification : M.Sc Geologist
 Appointment/ : 01/10/2017
 Termination date

Manager

Name : Jawahar
 Qualification : BE Mining Engineer
 Appointment/ : 01/01/2018
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	25/01/1996
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	31/07/2001
	:	Renewal under rule 24 MCR1960	19/08/2005
	:	Mining Scheme rule 12 MCDR1988	03/11/2012
	:	Mining Scheme rule 12 MCDR1988	03/03/2016
	:	MP modif under 17(3) MCR 2016	01/09/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No additional exploration was proposed during the year 2022-23.	NIL	47 core bore holes drilled during 2020-21 to explore the lease area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during 2022-23.	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2022-23.	No exploration carried out during 2022-23.	Entire area already explored to G1 level.
1e	Balance reserve as on 01/04/20	—	1.554 million tonnes as on 01/04/2023	Refractory grade magnesite.
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Exploration work carried out in the ML area. satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North South Block	North Block	Mine pit was water logged upto 7-10 m depth. Violation of Rule 11(1) pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and Mineral proposed.	Separate benches maintained.	NIL
2c	Stripping ratio or ore to OB ratio	1:13.28	1:12.32	Less development and production due to water logging of pit.
2d	Quantity of topsoil generation in m3	No proposal of removing Topsoil.	NIL	NIL
2e	Quantity of overburden generation in m3	132861	49172	Violation pointed out.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	—	—	Development and production was lacking due to water logging of the pit.
----	---	---	---	---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Pit water logged.
3b	Quantity of ROM mineral production proposed	357423 Tonnes	132901 Tonnes	Violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	25020 tonnes	9971 tonnes	pit water logged.
3d	Quantity of mineral reject generation	There is no mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	No subgrade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised,	Mechanised.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed during 2022-23.	Manual sorting done.	Rock breaker used for breaking strata as medium hard in nature.
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting proposed.	NIL	NIL

3k	Provision of mining machineries in mineral benches	Excavator- 1 Rock breaker - 1 tippers - 4, water tanker - 1.	As per proposal - machinery deployed.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m heigh and 6m width benches proposed.	Maintained as per proposal.	NIL
3m	Total area covered under excavation/pits	9.50 HC	9.42 HC	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:13.28	1:12.32	Less development and production due to water logging of pit.
3o	Total area put in use under different heads at the end of year	16.67 Hc.	16.42 Hc	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : 272132 tonnes 2019-20 : 281704 tonnes 2020-21 : 183545 tonnes 2021-22 : 181616 tonnes 2022-23 : 132901 tonnes	2018-19 : 386070 tonnes 2019-20 : 423300 tonnes 2020-21 : 224435 tonnes 2021-22 : 357575 tonnes 2022-23 : 357423 tonnes	Achieved lower production violation issued.
3q	General remarks of inspecting officers on method of mining etc.	—	—	Rock breaker deployed to avoid blasting.Satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed Backfilling on South Block during 2022-23.	Backfilled on South Block as per proposal.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Western side & South western side	As per proposal.	NIL

4c	Number of dumps within lease area and outside of lease area	2 dumps with in lease area.	2 dumps with in lease area.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL	NIL
4e	Number of active and alive dumps.	1	1	NIL
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	No proposal	NIL	NIL
4j	Number of settling ponds	No proposal.	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Dumps are maintained properly.

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.	After full extraction of mineral.	bckfilling after full extraction as per proposal.	NIL
5b	Area under backfilling of mined out area	0.7958 Ha	0.225 Ha	Due to less devlopment and production work.
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	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Backfilling done part of pit ,remaing pit water logged.

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).	Yes. submitted.	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.08 Hc.	0.08 Hc.	NIL
6d	No. of saplings planted during the year	100	100	NIL
6e	Cumulative no .of plants	—	2180	NIL
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	0.7958 Ha	0.225 Ha	part area back filled.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	only part area back filling proposed.	Part area reclaimed, no rehabilitation done.	Pit currently water logged.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on 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	100 saplings proposed.	100 saplings planted.	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	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical monitoring proposed.	periodical monitoring Carried out	With in limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes. segregation of magnesite and Dunite.	As per proposal.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting of Magnesite proposed.	As per proposal manual sorting done.	NIL
7c	Different grade of mineral sorted out at mines.	Mgo - 35%-49% CaO- 0.5% - 2.5%	Mgo - 35%-49% CaO- 0.5% - 2.5%	Refractory grade.
7d	Any beneficiation process at mines .	No beneficiation process proposed.	Manually sorting and sizing is being done.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	—	—	Refractory grade magnesite and dunite mined .Conservation and beneficiation is satisfactory.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for removal of Topsoil.	NIL	No Top soilgeneration during 2022-23.
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 of OB,waste proposed.	Dumps maintained as per proposal.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed for Backfilling on South Block.	As per proposal.	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back filling proposed over South Block.	Part area backfilling done. rehabilitation will be done once mineral extracted fully and backfilling completed.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	—	1250 plants	Plantation along Roads, office area, Ml boundary and around dumping area carried out.
8g	Survival rate	70%	60%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling carried out.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES.	Monthly and AR2022-23 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Jawahar vishnu Bala BE(Mining) -Mines manager and Mining Engineer. A.Nagaraju MSC(Geo) - Geologist.	Presented during Inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Covered under current workings - 9.42 Hc. waste disposal - 6.72 Hc. Infra - 0.2 Hc. others - 2.6 Hc. under pmcp - 0.08 Hc.	NIL
9d	Scrutiny of Annual return on afforestation	Details furnished.	100 saplings planted during the year2022-23.	NIL

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given. Nil. No mineral reject generation reported.	No mineral reject generation reported.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given. 9971 tonnes.	Lower production ,pits water logged.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given. Cost of production- Rs. 4525, Ex-mine price - Rs.4864.	NIL
9h	Scrutiny of Annual return on fixed assets	Details given. Rs.1460361 .	NIL
9k	Scrutiny of Annual return on mining machineries	Details given. Back-hoe shovel - 2 Tippers - 4	NIL

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 11(1)	13/10/2023			
MCDR17	Rule 33	13/10/2023			
MCDR17	Rule 34(3)	13/10/2023			

Date :**(D.CHANDRA SEKHAR REDDY)**

Indian Bureau of Mines