

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

MCDR inspection REPORT

Chennai regional office

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

Mine code : 39TMN11011

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : A.K Jayson- Director, Jawahar Vishnu Bala S - Manage
Official with
Designation
- (iv) Date of Inspection : 22/11/2020
- (v) Prev.inspection date : 23/11/2019

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 :
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 : 20
- (d) Date of Expiry : 07/08/2006
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 : H.SANYAL
 M/S. INDIA MAGNESIA
 PRODUCTS LTD 11/239,
 RAMAKRISHNA ROAD, III FLOOR
 BALAJI TOWERS, SALEM. SALEM
 TAMIL NADU
 Phone: 0427-2313218/2315955
 FAX : 0427-2317559

Mining Engineer

Name : D.SIVAKUMAR,Full Time
 Qualification : B.E., MINING
 Appointment/ : 01/03/2018
 Termination date

Manager

Name : M.SELVAM
 Qualification : B.A WITH I st CLASS MANAGER (RESTRICTE
 Appointment/ : 01/03/2018
 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	As per plan
1b	Exploration over lease area for geological axis 1 or 2	NA	NA	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	6.72 ha	6.72 ha	47 nos of boreholes proposed to be carried out in 2020-21
1e	Balance reserve as on 01/04/20	0.224 Million Tonnes	0.224 Million Tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern & Southern Blocks	Northern & Southern Blocks	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	No Top Soil or OB
2c	Stripping ratio or ore to OB ratio	1:15.6	1:16.2	Generation of Over Burden was higher in the northern block hence there is a marginal increase in the Stripping ratio.
2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil

2e	Quantity of overburden generation in m3	1,59,161 m3 3,97,902 te	1,06,125 m3 2,56,312 te	Within limit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	As proposed
3b	Quantity of ROM mineral production proposed	4,23,300 te	2,81,704 te	Within limit
3c	Recovery of sailable/usable mineral from ROM production	6% 25,398 tonne	6.18% 16,392 tonne	As proposed
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Nil
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	Nil	Nil	Non-conventional mining without drilling & blasting
3k	Provision of mining machineries in mineral benches	Rock Breakers, Excavators, Tippers & Water Sprinklers	Rock Breakers, Excavators, Tippers & Water Sprinklers	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height	6m height	Suitable
3m	Total area covered under excavation/pits	9.32 ha	9.32 ha	As per plan
3n	Ore to OB ratio for the pit/mine during the year.	1:15.6	1:16.2	Generation of Over Burden was higher in northern block, hence there is a marginal increase in the Stripping ratio.
3o	Total area put in use under different heads at the end of year	Area under mining 9.32ha Waste dump site 6.72 ha Infrastructure 0.10 ha Roads 0.10 ha Others 0.56 ha	Area under mining 9.32ha Waste dump site 6.72 ha Infrastructure 0.10 ha Roads 0.10 ha Others 0.56 ha	As proposed
3p	Production of ROM mineral during the last five year period as applicable	2015-16 :382985 2016-17 :389970 2017-18 :431480 2018-19 :386070 2019-20 :423300	2015-16 :361683 2016-17 :370217 2017-18 :150600 2018-19 :243133 2019-20 :273200	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	Satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil. One dump for waste.	No top soil. One dump for waste.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	Western & South-western side of the lease	Western & South-western side of the lease	As per plan
4c	Number of dumps within lease area and outside of lease area	2	2	As per plan
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump on the western side of the lease	Temporary dump on the western side of the lease	The dumped material will be backfilled into worked out benches in the East upon complete exhaustion of minerals.
4e	Number of active and alive dumps.	2	2	As per plan
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	NA	NA	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after full extraction of minerals	Backfilling proposed after full extraction of minerals	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory

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	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.08 ha (on barren areas) + 0.02 ha (on dump slopes)	0.096 ha (on barren areas) + 0.02 ha (on dump slopes)	As proposed
6d	No. of saplings planted during the year	100 (on barren areas) + 50 (on dump slopes)	120 (on barren areas) + 50 (on dump slopes)	As proposed
6e	Cumulative no .of plants	500 nos	1160 nos on dump slopes + 620 nos on barren area + 235 nos outisde lease area (Cumulative Saplings planted)	Adequate afforestation carried out

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 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	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	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	Complied
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	25,398 te dispatch	16,392 te dispatch	Within limit
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines .	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No top soil envisaged	No top soil encountered	As per plan
8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only one dump for waste	Only one dump for waste	As per plan
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Mineral not extracted completely	Mineral not extracted completely	Backfilling to be carried out upon complete extraction of mineral from worked out benches
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)	500 nos saplings cumulative	1160 nos on dump slopes + 620 nos on barren area + 235 nos outside lease area (Cumulative Saplings planted) Species planted 1. Casuarina equisetifolia 2. Pungarina glabra 3. Azadirachta Indica 4. Syzyguim cumini 5. Tamarindus indica 6. Thespesia populnea	Adequate afforestation carried out
8g	Survival rate	70%	68%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	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	Given	Submitted in time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager Jawahar Vishnu Bala S Mining Engineer in charge Jawahar Vishnu Bala S Geologist in charge A.Nagaraju	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 9.320 9.320 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 6.720 6.720 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.200 0.200 (vi) Other Purpose ((Panchayath Tar Road, Metal Road, Safety distance from road, Power line, Telephone line, Un utilised) 0	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 4. Mining operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 170 (b) Outside lease area 0	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4- Mineral Rejects for Magnesite	4.2 Opencast 4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade None	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 16392.000 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex- Mine Price - Rs 4,292.00 Cost of Production - Rs 4,105.00	Referred back for reason - "Kindly check Royalty per tonne claimed and confirm/rectify.Royalty is calculated on Dispatched quantity. Kindly check and rectify / confirm the details furnished."
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Paid up Share Capital - Rs 5,09,000	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.930 CUM 2 Non Electrical Opencast TIPPER 6.080 CUM 4 Non Electrical Opencast	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

Date :

(Matiul Islam)

Indian Bureau of Mines