

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/SLM/MG-2. MDS

Mine code : 39TMN11004

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : P. G. KALIDAS SUPDT MINES, E P ARUL PRABATH MINING EN
Official with
Designation
- (iv) Date of Inspection : 07/03/2020
- (v) Prev.inspection date : 07/12/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHETTICHAVADI/JAGHIR(532H)**
- (b) **Registration NO.** : **IBM/4125/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : TAMIL NADU
District : SALEM
Village : CHETTICHAVADI
Taluka : SALEM
Post office : KARUPPUR
Pin Code : 636012
FAX No. : 0427- 2345616
E-mail : dalmiamagnesite@yahoo.com
Phone : 0427- 2345601
- (f) Police Station :
- (g) First opening date : 22/02/1966
- (h) Weekly day of rest : SUN
2. Address for : CHETTICHAVADIJAGHIR MINE
correspondance : CHETTICHAVADIJAGHIR .VILLAGE,
SALEM.TALUK & DISTT.
3. (a) Lease Number : TMN0381
- (b) Lease area : 562.35
- (c) Period of lease : 20
- (d) Date of Expiry : 19/08/1986
4. Mineral worked : DUNITE Associated
MAGNESITE Main

5. Name and Address of the

Lessee : DALMIA BHARAT SUGAR AND INDUSTRIES LTD.
 C/O DALMIA MAGNESITE CORP.
 SALEM-636012 SALEM TAMIL
 NADU
 Phone:
 FAX :

Owner : M/S.Dalmia Magnesite Corporation
 SALEM TAMIL NADU
 Phone:
 FAX :

Agent : P.G.KALIDASS
 DALMAG MAGNESITE
 CORPORATION SALEM TAMIL
 NADU
 Phone:
 FAX :

Mining Engineer

Name : D. Rajakumar, Full Time
 Qualification : Dip (Min) with AMIE and FCC.
 Appointment/ : 22/12/2006
 Termination date

Geologist

Name : P.G.KALIDAS, Full Time
 Qualification : M.TECH(APP.GEOLOGY)
 Appointment/ : 27/07/1990
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	09/09/2003
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	01/09/2005
		Mining Scheme rule 12 MCDR1988	12/01/2012
		Mining Scheme rule 12 MCDR1988	28/07/2016
		MP modif under 17(3) MCR 2016	30/04/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Exploration in MT and B Blocks	446.09 Mtr in MT and B Blocks	Nil
1b	Exploration over lease area for geological axis 1 or 2	Exploration in MT and B Blocks	65 BORE HOLES	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	RS.13 Lakhs in 2019-20 RS.23 LAKHS IN 2018-19	SRI GANAPATHY CORE BORE, COIMBATORE
1d	Balance area to be explored to bring Geological axis in 1 or 2	PART OF B AND MT BLOCKS	-	Nil
1e	Balance reserve as on 01/04/20	MAGNESITE: (111)-919078 TS, (121)-6323901 TS, (211)-3725576 TS, (211)-3725576 TS = 10.968 MILLION TS DUNITE: (111)-398947 TS, (211)-302926 TS = 0.7018 MILLION TS	MAGNESITE: (111)-969078 TS, (121)-6323901 TS, (211)-3725576 TS = 11.018 MILLION TS DUNITE: (111)-398947 TS, (211)-302926 TS = 0.7018 MILLION TS	NO MINING WAS CARRIED OUT
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	MT & B BLOCKS	MT BLOCK	PRESENTLY MINE IS NOT IN OPERATION
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OVER BURDEN-FIRST BENCH, MINERAL - 2,3,4TH BENCHES	OVER BURDEN- FIRST BENCH, MINERAL - 2,3,4TH BENCHES	Nil

2c	Stripping ratio or ore to OB ratio	01:23.8	NIL	PRESENTLY MINE IS NOT IN OPERATION
2d	Quantity of topsoil generation in m3	NIL	NIL	ALREADY OPENED MINE TOP SOIL IS NIL OR SCANTY
2e	Quantity of overburden generation in m3	495833 M3/YEAR	MINE SUMP DESILTED QTY 9443 m3 in 2019-20	PRESENTLY MINE IS NOT IN OPERATION
			C & MT BLOCK MINE SUMPS DEEPENING AS PER DISTRICT COLLECTOR LETTER ROC NO:711/2019/MINERAL A DATED 1-8-2019 UNDER PM'S JAL SAKTHI ABHYAN SCHEME	
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	3	Nil	Mine not operational
3b	Quantity of ROM mineral production proposed	11,47,000 T / YEAR	0 T	Mine not operational
3c	Recovery of sailable/usable mineral from ROM production	50,000 T	0 T	Mine not operational
3d	Quantity of mineral reject generation	1150 T	Nil	Mine not operational
3e	Grade of mineral rejects generation and threshold value declared.	>11% of SiO2	Nil	Mine not operational
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil

3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	ANALYSIS AND BENEFICIATION OF MINERAL REJECTS	BENEFICIATION OF MINERAL REJECTS AT PLANT	Nil
3j	Provision of drilling and blasting in mineral benches	2 WAGON DRILLS , 2 ATLAS COPCO COMPRESSORS	2 WAGON DRILLS , 2 ATLAS COPCO COMPRESSORS	Nil
3k	Provision of mining machineries in mineral benches	LOADER -2, DOZER - 2, DUMPER - 7	LOADER -2, DOZER - 2, DUMPER - 7	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil
3m	Total area covered under excavation/pits	366.89 HECTARES	366.89 HECTARES	Nil
3n	Ore to OB ratio for the pit/mine during the year.	01:23.8	-	Mine not operational
3o	Total area put in use under different heads at the end of year	5.89 HECTARE	5.89 HECTARE	FOR APPROACH ROADS & OFFICE PURPOSE

3p	Production of ROM mineral during the last five year period as applicable	2015-16=15027 ts. mag, 37815 ts. dun, 2016-17=10343 ts. mag, 11620 ts. dun, 2017-18=3405 ts. mag, 11720 ts. dun, 2018-19=1167 ts. mag, 131 ts. dun, 2019-20 NIL	2015-16=15027 ts. mag, 37815 ts. dun, 2016-17=10343 ts. mag, 11620 ts. dun, 2017-18=3405 ts. mag, 11720 ts. dun, 2018-19=1167 ts. mag, 131 ts. dun, 2019-20 NIL	Nil
		NIL.		
3q	General remarks of inspecting officers on method of mining etc.	-	-	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	MINERAL REJECTS AND OVER BURDEN ARE DUMPED SEPERATELY	MINERAL REJECTS AND OVER BURDEN ARE DUMPED SEPERATELY	Nil
4b	Location of topsoil, OB and mineral reject dumps	NON ORE BEARING AREA	NON ORE BEARING AREA	Nil
4c	Number of dumps within lease area and outside of lease area	6 DUMPS	6 DUMPS	6 DUMPS WITHIN PRESENT LEASE HOLD AREA
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	DUMPS LOCATED OUTSIDE THE ULTIMATE PIT LIMIT	DUMPS LOCATED OUTSIDE THE ULTIMATE PIT LIMIT	Nil
4e	Number of active and alive dumps.	6 DUMPS	6 DUMPS	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.	50 M RETAINING WALL	50 M RETAINING WALL	RETAINING WALL-1730 M , GARLAND DRAINAGE-2100 M
4i	Length of Retaining wall or garland drain all along dumps	100 M / YEAR	50 M during 2019-20	RETAINING WALL-1730 M , GARLAND DRAINAGE-2100 M
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Nil

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.	NA	FULL EXTRACTION OF MINERAL FROM PITS IS NOT COMPLETED	Nil
5b	Area under backfilling of mined out area	NA	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	TOP SOIL IS NIL OR SCANTY, TOP SOIL COLLECTED USED FOR PLANTATION	Nil
5d	Total area fully reclaimed and rehabilitated	10.37 HA OF WATER RESERVIORS ARE MAINTAINED FOR DRINKING WATER SUPPLY	AFFORESTATION = 18.23 Ha MINE SUMPS FOR WATER SUPPLY = 10.00 Ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	-	Yes	Nil
6b	Area available for rehabilitation (ha) .	Nil	CUMMULATIVE 18.23 HA	Nil
6c	afforestation done (ha).	0.5 HA	0.5 HA	Nil
6d	No. of saplings planted during the year	2000 / YEAR	2000 TREE SAPLINGS IN 2019-20	Nil
6e	Cumulative no .of plants	60674 NOS	60674 NOS	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	RS 3,00,000	RS 3,00,000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	YES, 0.5 HA FOR AFFORESTATION	YES, 0.5 HA FOR AFFORESTATION	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	18.23 HA	18.23 HA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	PROPOSED PLANTATION OF 2000 SAPLINGS PER YEAR	PLANTATION OF 2000 SAPLINGS CARRIED OUT	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	MONITORING DONE YEARLY IN THE PRE MONSOON OR POST MONSOON PERIODS	SEASON WISE AMBIENT QUALITY MONITORING CARRIED OUT IN CORE AND BUFFER ZONE, WATER QUALITY SURVEY IN PRE MONSOON / POST MONSOON CARRIED OUT	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM 11,47,000 MINERAL SORTED 50,000 TS	GRADE WISE STACKING OF MINERALS ARE CARRIED OUT	PRESENTLY MINE IS NOT IN OPERATION
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	Nil

7c	Different grade of mineral sorted out at mines.	LOW SILICA MAGNESITE, HIGH SILICA MAGNESITE, REJECT MAGNESITE, DUNITE, REJECT DUNITE	LOW SILICA MAGNESITE, HIGH SILICA MAGNESITE, REJECT MAGNESITE, DUNITE, REJECT DUNITE	Nil
7d	Any beneficiation process at mines .	Nil	Nil	MAGNESITE BENEFICATION PLANT IS SITUATED AT FACTORY PREMISES
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	AT AFFORESTATION AREA	AT AFFORESTATION AREA	Nil
8b	Concurrent use or storage of topsoil	Afforestation	-	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 dumps for restoring the land to its original use	NA	NA	CANNOT BE DONE AT PRESENT AS MINE PITS ARE STILL ACTIVE

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	PRESENTLY AFFORESTATION AND MINE SUMPS FOR SUPPLYING DRINKING WATER TO SURROUNDING VILLAGES ARE PROVIDED AND MAINTAINED
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	ORIGINAL LAND WAS BARREN WITHOUTS ANY PLANTS. YEARLY ABOUT 2000 TREES PLANTED SINCE 1988	2000 PLANTS IN 2019-20	Nil
8g	Survival rate	-	40-50%	Nil
8h	Water sprinkling on roads to control airborne dust	Carried Out	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	-	Submitted	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	-	Found as given	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	as given	Nil
9d	Scrutiny of Annual return on afforestation	provided	as given	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	As given	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided	As provided	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive Mine	Production Cost Provided	Nil
9h	Scrutiny of Annual return on fixed assets	Provided	As provided	Nil
9k	Scrutiny of Annual return on mining machineries	Provided	As provided	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

Date :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines