

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-22/LST-8

Mine code : 38RAJ20006

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Dr. H. R. Dandi, Geologist
Official with
Designation
- (iv) Date of Inspection : 29-NOV-19
- (v) Prev.inspection date : 18-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHAWANDIA**
- (b) **Registration NO.** : **IBM177/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : NAGPUR
Village : MADPURA
Taluka : KHINWSAR
Post office : MADPURA
Pin Code : 342025
FAX No. : 09619000770
E-mail : info@mwmmines.com, drrsg@mwm:
Phone : 09619000770
- (f) Police Station : PANCHORI
- (g) First opening date : 08-AUG-93
- (h) Weekly day of rest : SUN
2. Address for : M.W.MINES PVT LTD
correspondance : 138,UMAID HERITAGE,
FOOT HILL OF UMAID BHAWAN, JODHPUR
3. (a) Lease Number : RAJ0018
- (b) Lease area : 335.3
- (c) Period of lease : 20
- (d) Date of Expiry : 30-JUL-11
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M W MINES PRIVATE LTD.
 SCO 164-165. SECTOR 9C
 MADHYA MARG, CHANDIGARH
 UNIDENTIFIED CHANDIGARH
 Phone:01126533367
 FAX :

Owner : Dr R. S. GREWAL
 M/S M W Mines Pvt Ltd, 010,
 GROUND FLOOR SARVAPRIYA
 VIHAR APPARTMENTS,
 SARVAPRIYA VIHAR, DELHI
 DELHI DELHI
 Phone: 01126533367
 FAX :

Agent : Dr. Hari Handi
 M W Mines Pvt. Ltd. 138
 Umaid Heritage, Foothill of
 Umaid Bhawan Palace,
 Jodhpur (raj) JODHPUR
 RAJASTHAN
 Phone:
 FAX :

Geologist

Name : Dr. Hari Handi, Full Time
 Qualification : Ph. D (GEOLOGY)
 Appointment/ : 16-NOV-16
 Termination date

Manager

Name : Sanjay Agrawal
 Qualification : BE Mining, FCC (R)
 Appointment/ : 02-MAR-20
 Termination date

Manager

Name : KISHORE DUTTA PUROHIT
 Qualification : BE MINING
 Appointment/ : 20-JUL-18 01-MAR-20
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	25-JAN-96
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	11-JUL-06
		Renewal under rule 24 MCR1960	18-MAY-12
		MP review under 17(1) MCR 2016	08-FEB-17
		MP modif under 17(3) MCR 2016	28-FEB-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12 Bore holes proposed covering G2 area of 54.36 ha to a total meterage of 600 m during 2019-20	Proposed exploration has not been carried out.	
1b	Exploration over lease area for geological axis 1 or 2	G- 281.11 ha & G- 2- 54.26 ha	G- 281.11 ha & G- 2- 54.26 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G 2- 54.36 ha	G 2- 54.36 ha	
1e	Balance reserve as on 01/04/20	63.60 million T	63.60 million T as on 1/4/2019	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The proposed exploration work for the year 2019-20 has not been carried out, for which violation of rule 11 (1) is being pointed out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 1- E340800 - 341050, N 3001200-3001500; Pit 2- E 339500 - 339700 , N 3001850-3002100.	Pit 1- E 340800- 341050, N 3001200-3001500, Pit 2- E339500-339700, N 3001850-3002100, Pit 3- E 339800- 339900, N 3001800-3001900.	The VL for Pit 3 was issued after previous inspection. The reason for developing additional Pit had been explained in the modified mining plan which has been approved.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate benches in top soil,, O/B & mineral benches proposed	Yes being done as proposed	

2c	Stripping ratio or ore to OB ratio	1 : 0.76	1 : 2.05
2d	Quantity of topsoil generation in m3	83377 Cu M	81811.49 Cu M
2e	Quantity of overburden generation in m3	248062 Cu M	409124.7 Cu M
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development of pit is as per proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits during 2018-19	3 Pits in the year 2018-19.	
3b	Quantity of ROM mineral production proposed	978161 T	490936.19 T	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	202147 T	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	CaO>34 %, MgO<5%	Not applicable	
3f	Quantity of sub grade mineral generation.	145321 T	27457 T	
3g	Grade of sub grade mineral generation	CaO<42%, Mgo<5%	CaO<42%, Mgo<5%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & Blasting proposed for mining	Drilling & Blasting being carried out.
3k	Provision of mining machineries in mineral benches	Yes	Yes as per proposals
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, Top Soil- 1-3m, O/B- 3-6m & Limestone- 3-5m.
3m	Total area covered under excavation/pits	44.94 ha	26.97 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.76	1 : 2.05
3o	Total area put in use under different heads at the end of year	53.96 ha	39.87 ha up to 1/4/2019
3p	Production of ROM mineral during the last five year period as applicable	2013-14- 400159 T, 2014-15- 559810 T, 2015-16- 760186 T, 2016-17- 1008874 T, 2017-18- 999886 T, 2018-19- 978161 T	2013-14- 8600.7 T, 2014-15- 193106 T, 2015-16- 374614 T, 2016-17- 441657 T, 2017-18- 429336 T, 2018-19- 4909361.30 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method used which is suitable to the type of deposit.

Solid Waste Management - Dumping:

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

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes Proposed seperate dumping of top soil, O/B & reject	Yes being done
4b	Location of topsoil, OB and mineral reject dumps	North East side of Pit-1	As per proposal
4c	Number of dumps within lease area and outside of lease area	2 Nos dumps within lease area	2 Nos of Old Dumps were in the lease which are inactive and material from dump used in bakfilling in future planning.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL
4e	Number of active and alive dumps.	Nil	Nil all O/B used in Backfilling
4f	Number of dead dumps.	Three	Three
4g	Number of dumps established.	Three	Three
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland drain Provided.
4i	Length of Retaining wall or garland drain all along dumps	As per dump periphery	1600 m
4j	Number of settling ponds	Two	Two
4k	Specific comments of inspecting officer on waste dump management	Not applicable	Presently no O/B waste is going to Dumps, it is now being backfilled simultaneously.

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.	Complete extraction of mineral	Complete extraction of mineral	

5b	Area under backfilling of mined out area	2.37 ha	5.25 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top Soil proposed to be Stored seperately & then spread over the backfilled area.	Top Soil Stored seperately & then spread over the backfilled area & Plantation done.
5d	Total area fully reclaimed and rehabilitated	5.54 ha	6.42 ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The backfilling is being carried out as per proposals.

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 as per Rule	Not submitted	
6b	Area available for rehabilitation (ha) .	No Proposal	Not applicable	
6c	afforestation done (ha).	6 ha	10.95 ha	
6d	No. of saplings planted during the year	500 nos	4034 nos	
6e	Cumulative no .of plants	5500 nos	10000 nos	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 2 Lacs	Rs. 2.5 Lacs	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	As per pit dimensions	Backfilling is being done simultaneously
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	As per proposals	About 5.25 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.25 ha	0.18 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.25 ha	0.18 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.25 ha	0.18 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation

6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of Air, Water & Noise	Regular monitoring at 6 monthly interval
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The report of PMCP required to be submitted before 1 July each year has not been submitted which is being pointed out as VL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	978161 T	490936.19 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	Chemical & Cement grade	Chemical & Cement grade	
7d	Any beneficiation process at mines	Crushing & Screening	Crushing & Screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no issue regarding mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes seperate removal of Top Soil & use for reclamation.	Yes seperate removal of Top Soil & used for reclamation.	

8b	Concurrent use or storage of topsoil	Top soil proposed to be used for reclamation of backfilled area.	Top soil used for reclamation of backfilled area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden proposed to be backfilled & layered with top soil & plantation proposed over it.	Being done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden proposed to be backfilled & layered with top soil & plantation proposed over it.	Being done
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	After backfilling land is used for plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos plantation during 2018-19	4034 planted during 2018-19.
8g	Survival rate	Not specified	About 50%.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic is good in & around the mine.

Compliance of Rule 45:

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

9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to November 2019. The A/R submitted for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager & Mining Engineer- Sh. Kishore Dutta, Geologist- Dr. H. R. Dandi	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under excavation 26.97 ha, Reclaimed area- 6.42 ha & dumps 4.65 ha	Found in order.	
9d	Scrutiny of Annual return on afforestation	4034 nos planted within lease area.	Survival rate achieved 70%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation- Nil	Reject generation- Nil	Low grade blended with high grade
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock 177400.88 T, Production 490936.13 T & closing Stock 152426.65 T	Found in Order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex-Mine price Stated as Rs. 450.00 per Tonne and Cost of Production stated as Rs. 358.15 Per Tonne.	During the year 2018-19 a total of Rs. 123376505 had been expensed to raise a production of 490936.13 T of Mineral, thereby the cost of production comes about Rs. 251.31 per Tonne which has been stated as Rs. 358.15 per Tonne. The correct information has not been furnished in the annual return of the year 2018-19.	
9h	Scrutiny of Annual return on fixed assets	Given	Found in order	
9k	Scrutiny of Annual return on mining machineries	Given	Found in order	

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 :

(Sharma H.C.)

Indian Bureau of Mines