

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/AJM-415/WOLL-6

Mine code : 63RAJ01006

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : 63RAJ01006
Official with
Designation
- (iv) Date of Inspection : 17-MAR-20
- (v) Prev.inspection date : 15-MAR-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KOTRA(22/02)**
- (b) **Registration NO.** : **IBM/8565/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : AJMER
- Village : KOTRA
- Taluka : BEAWAR
- Post office : KOTRA
- Pin Code : 305927
- FAX No. : 9414075575
- E-mail : wolcamines@gmail.com
- Phone : 9414075575
- (f) Police Station : Beawar
- (g) First opening date : 17-JUN-08
- (h) Weekly day of rest : SUN
2. Address for : Smt Renu Atre
correspondance : House no 378, Block -C
Malviya Nagar, Jaipur
3. (a) Lease Number : RAJ3799
- (b) Lease area : 19.5
- (c) Period of lease : 30
- (d) Date of Expiry : 29-MAY-39
4. Mineral worked : WOLLASTONITE Main

5. Name and Address of the

Lessee : RENU ATRE
 H.N.378, BLOCK-C MALVIYA
 NAGAR JAIPUR JAIPUR
 RAJASTHAN
 Phone:
 FAX :

Owner : RENU ATRE
 JAIPUR RAJASTHAN
 Phone:
 FAX :

Mining Engineer
 Name : Sri Purshottam Goel,Part Time
 Qualification : BE mining
 Appointment/ : 13-MAR-16
 Termination date

Geologist
 Name : Deependra Singh,Part Time
 Qualification : M.Sc. Geology
 Appointment/ : 01-MAY-19
 Termination date

Manager
 Name : Jagdish Chopra
 Qualification : BE Mining
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20-SEP-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	31-MAR-15
	:	MP review under 17(1) MCR 2016	02-MAY-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Trench namely PP4 proposed during the year 2017-18 in deposit-III.	Two trenches have been made in the deposit.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY).	Not applicable.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal on area to be explored under G1/G2.	Not applicable as no proposal.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 02/05/2019, the position of reserve and resource as on 01/04/2019 was 370192 and 375960 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 370192 and 375960 tonnes respectively.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	No exploratory work during 2018-19.	No issue observed related to exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the reporting year development has been proposed in deposit-I.	Development has been carried out in deposit-I.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and separate benches in OB and Mineral.	No top soil and separate benches developed in OB and Mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.49 Ton/Ton	1:0.024 Ton/Ton	Ratio could not be maintained due to low production.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	14350 tonnes.	105 tonnes as reported during mine inspection.	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single.	Single.	NIL.
3b	Quantity of ROM mineral production proposed	29330 tonnes.	4395 tonnes.	NIL.
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	No interburden generation as anticipated.
3d	Quantity of mineral reject generation	No proposal.	Not applicable.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	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.	No proposal.	Not applicable.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling by jack hammer and blasting with ANFO.	Drilling and blasting carried out as and when required.	NIL.
3k	Provision of mining machineries in mineral benches	Tractor- trolley, Jack hammer etc.	No HEMM deployed, manual loading in to tractor trolleys.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches has been proposed to 3 mts.	The height of the benches has been maintained as per proposal and suitable for proposed method of mining.	NIL.
3m	Total area covered under excavation/pits	1.29 Ha (at the end of the planned period 2018-19).	0.391 Ha (as on 01/04/2019)	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.49 Ton/Ton	1:0.024 Ton/Ton	Ratio could not be maintained due to low production.
3o	Total area put in use under different heads at the end of year	1.785 Ha (at the end of the planned period 2018-19).	0.441 Ha (as on 01/04/2019)	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15:9130 2015-16:12480 2016-17:18720 2017-18:28860 2018-19:29330	2014-15:14778 2015-16:10330 2016-17:10685 2017-18:11705 2018-19:4500	All figures in tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of the mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is suitable.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil and Mineral Reject generation. OB/waste is proposed to dump separately over marked place.	No waste, top soil and mineral reject generation.	Generated waste has been used for mine road preparation.
4b	Location of topsoil, OB and mineral reject dumps	Near Lease Boundary pillar A and near Pit 1.	Generated waste has been used for mine road preparation.	NIL.
4c	Number of dumps within lease area and outside of lease area	01 proposed.	One dump near boundary near Pit 1.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out of UPL.	Out of UPL.	NIL.
4e	Number of active and alive dumps.	One.	One.	NIL.
4f	Number of dead dumps.	No Proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No Proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain to be provided along the dumps to arrest surface run-off.	Boulder wall observed at necessary place along the dump	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal.	Not applicable.	NIL.
4j	Number of settling ponds	No Proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to dispose through dumping.	Generated waste has been used for preparation of mine road.	No issues related to waste dumping.

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.	No proposal of full extraction.	Not applicable.	NIL.
5b	Area under backfilling of mined out area	No proposal of backfilling.	Not applicable.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of full extraction and backfilling.	No backfilling in the mine.	None of the area is fully extracted and matured for backfilling.

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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2018-19 has been submitted.	Violation of MCDR issued vide letter dated 20/05/2020.
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	NIL.
6c	afforestation done (ha).	No specific proposal on area of afforestation.	An area of total 0.125 Ha has been used for plantation.	NIL.
6d	No. of saplings planted during the year	Total 55 number of sapling has been proposed to plant.	200 number of saplings has been planted.	NIL.
6e	Cumulative no .of plants	270 by the end of 2018-19.	1700 by the end of 2018-19.	As per AR 2015-16 to 2018-19.

6f	Any other method of rehabilitation	Other than plantation, no any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	No proposal.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No proposal.	Not applicable.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Total 55 number of sapling has been proposed to plant.	200 number of saplings has been planted.	NIL.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No specific proposal on area of afforestation.	An area of total 0.125 Ha has been used for plantation.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for monitoring.	Being carried out.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Other than planation no specific proposal.	Plantation work has been carried out in the mine. PMCP report of the year 2018-19 has been submitted.	Violation of MCDR issued vide letter dated 20/05/2020.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting of wollastonite.	As per proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	NIL.
7c	Different grade of mineral sorted out at mines.	Single grade	Single grade	NIL.
7d	Any beneficiation process at mines .	No proposal of beneficiation.	Not applicable.	No issue related to mineral conservation in the mine.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Manual sorting of wollastonite.	Is being done as per proposal.	No issues of mineral conservation observed.

 Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil generation during the RY.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of the waste has been proposed.	Waste generated has been dumped separately and used for mine road preparation.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	As such no area is matured for backfilling.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal.	Not applicable.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total 55 number of sapling has been proposed to plant.	200 number of saplings has been planted.	NIL.
8g	Survival rate	No proposal.	20% as reported in AR 2018-19.	NIL.
8h	Water sprinkling on roads to control airborne dust	Proposed for water sprinkling.	Observed on the haul road etc.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Total 55 number of sapling has been proposed to plant.	200 number of saplings has been planted.	The aesthetic beauty of the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submit Monthly and Annual return in prescribed format.	Monthly and Annual return of the year 2018-19 has been submitted by the lessee.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer and Manager has been furnished.	Mining Engineer, Geologist and Mine Manager as per MCDR, 2017 has been appointed.	Scrutiny of AR 2018-19.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use has been furnished as NIL.	Under mining- 0.391 ha, Reclaimed- Nil, used for waste disposal- 0.05 ha, others- Nil	NIL.
9d	Scrutiny of Annual return on afforestation	200 plants.	200 plants.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and Graded ore closing stock: 4.095 ton	The information furnished found to correct.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	ROM and Graded ore closing stock: 4.095 ton	Appears to be in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is NIL.	The information furnished found to correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Not shown.	It is reported that all machines are on contract.	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
MCDR17	Rule 11(1)	20-MAY-20			
MCDR17	Rule 26(2)	20-MAY-20			
	Rule 45(7)(i)(a)	20-MAY-20			

Date :

(DILIP JAIN)

Indian Bureau of Mines