

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-7/SE-1

Mine code : 97RAJ14008

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Radheshyam Paliwal, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 05-JAN-22
- (v) Prev.inspection date : 09-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAPURIA(01/01)**
- (b) **Registration NO.** : **IBM/9009/2012**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : KAPURIA
- Taluka : JAISALMER
- Post office : KAPURIA
- Pin Code : 345027
- FAX No. : 0294-2490538
- E-mail : seemamineral@hotmail.com
- Phone : 9414156880
- (f) Police Station : Fatehgarh
- (g) First opening date : 23-DEC-01
- (h) Weekly day of rest : SUN
2. Address for : 203-A, Mewar Industrial Area
correspondance Road no. 11/F, Madri
PO Udaipur
3. (a) Lease Number : RAJ5162
- (b) Lease area : 48.7
- (c) Period of lease : 50
- (d) Date of Expiry : 22-DEC-31
4. Mineral worked : SILICEOUS EARTH Main

5. Name and Address of the

Lessee : SEEMA MINERALS AND METALS
 203-A, MEWAR INDUSTRIAL
 AREA, ROAD NO.-11/F, MADRI,
 UDAIPUR RAJASTHAN
 Phone:
 FAX :

Owner : SEEMA MINERALS & METALS
 SETHJI KI BARI, HOSPITAL
 ROAD, UDAIPUR UDAIPUR
 RAJASTHAN
 Phone: 0294-522864, 52
 FAX :

Agent : Sri Mahendra Kumar Chittora
 Kapuria Siliceous Earth
 Mine, Taluka: Faithgarh,
 District: Jaisalmer
 JAISALMER RAJASTHAN
 Phone:
 FAX : 9414156880

Mining Engineer

Name : Sri Radheshyam Paliwal, Full Time
 Qualification : BE Mining
 Appointment/ : 26-JUN-18
 Termination date

Geologist

Name : Pravez Ahmed Dyre, Full Time
 Qualification : MSC Geology
 Appointment/ : 01-DEC-21
 Termination date

Manager

Name : M K Chittora
 Qualification :
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	14-JUL-14
Plan/Scheme of Mining		MP review under 17(1) MCR 2016	19-MAY-17
		MP modif under 17(3) MCR 2016	19-MAR-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous year 2019-20.	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposed during the year 2020-21.	During the year 2020-21, Five exploratory trenches has been made which were backlog of the year 2017-18 & 2018-19.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Lessee himself made exploratory trenches during the year 2020-21 & Expenditures Approx. Rs. 0.5 lakhs.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal given during the year 2020-21.	Current inspection carried out for RMP, as per submitted RMP. area under G1-12.75 hect, G2-4.0 hect, G3-16.3 hect & Non mineralised area-15.75 hect.	As per scrutiny comments vide letter dated 10.01.2022, lessee advised to submitted proposal of exploration for entire mineralised area under G1 level as per norms of MEMC Rules 2015 & MCDR 2017.
1e	Balance reserve as on 01/04/20	No specific proposal given.	As per recent approved Modified Mining Plan the position of reserve as on 01.01.2021, 111-276309 tons, 122-137186 tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc			As per scrutiny comments vide letter dated 10.01.2022, lessee advised to submitted proposal of exploration for entire mineralised area under G1 level as per norms of MEMC Rules 2015 & MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the year 2019-20, mine development was proposed in Pit No. 3	Development has been carried out within approved proposal.	However mining development operation are carried vaery small scale due to lack of demand of siliceous earth mineral.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate benches have been proposed in overburden and mineral.	Top soil has not been generated. Separate benches have been developed in OB and Mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.83 T/T	Nil	No ROM reported in annual reported during the year 2020-21.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	No top soil has been generated.	Nil
2e	Quantity of overburden generation in m3	2020-21: 21186 tonnes,	Only 50 tonnes OB generation reported during the year.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			However mining development operation are carried vaery small scale due to lack of demand of siliceous earth mineral, Some quantity of siliceous earth mineral dispatch only from existing mineral stack.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Nil
3b	Quantity of ROM mineral production proposed	2020-21: 25421.33 tonnes,	2020-21: 0 tonnes.	As reported in Annual return 2020-21.

3c	Recovery of sailable/usable mineral from ROM production	100% Recovery.	Nil	Nil
3d	Quantity of mineral reject generation	No proposal.	Not applicable as no proposal.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of mineral reject generation.	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 method of segregation.	Manual method has been adopted.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of beneficiation study.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	No proposal of drilling and blasting.	Not applicable as no proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Tractor-Trolley, Water tanker etc.	Excavator, Tractor-Trolley, Water tanker etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height has been proposed to 6 mts.	Height of the benches has been maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	An area of 7.69 Ha has been proposed under mining at the end of the plan period i.e. 2021-22	As reported an area around 5.6 ha. has been utilized under excavation/pit .	Nil

3n	Ore to OB ratio for the pit/mine during the year.	1:0.83 T/T	Nil	No ROM & OB generation reported in annual reported during the year 2020-21.
3o	Total area put in use under different heads at the end of year	As per approved document dated 19.03.2021, an area of 10.786 Ha has been proposed to put in use at the end of the plan period i.e. 2021-22.	As per submitted RMP, total area put to use under different heads are 6.69 hect.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 25539 2017-18: 25495 2018-19: 25441 2019-20: 25351 2020-21: 25421 2021-22: 6669	2016-17: 5925 2017-18: 8390 2018-19: 5405 2019-20: 0 2020-21: 274 (Till 30.11.2021)	All figures are 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.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil and Mineral reject generation. Waste has been proposed to backfilled in mine out pit.	No top soil and mineral reject has been generated. Waste used in backfilling of mined out pit.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No proposal of top soil and mineral reject generation. Waste has been proposed to backfilled in mine out pit.	No top soil and mineral reject has been generated. Waste used in backfilling of mined out pit.	Nil

4c	Number of dumps within lease area and outside of lease area	No proposal of dumps, all the waste will be simultaneously used for backfilling in mined out pits.	As per proposal	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal of waste dumping during the reporting year.	During the year 2020-21 waste was utilised in backfilling of mined out pits.	Nil
4e	Number of active and alive dumps.	No proposal of waste dumping during the reporting year.	None	Nil
4f	Number of dead dumps.	No proposal.	None	Nil
4g	Number of dumps established.	No proposal.	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of Retaining wall and Garland drain during the reporting year.	Not applicable	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal of Retaining wall and Garland drain during the reporting year.	Not applicable as no proposal.	NIL.
4j	Number of settling ponds	No proposal of construction of settling pond.	Not applicable as no proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump management.

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 was proposed after full extraction of mineral.	As per proposal	Nil
5b	Area under backfilling of mined out area	During the year 2020-21 total 0.20 hect. area will be backfilled.	During the year mine development has been carried out very small scale hence very small scale backfilling only during the year.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	Not applicable as no proposal.	Nil
5d	Total area fully reclaimed and rehabilitated	During the year no proposal of fully area reclaimed and rehabilitation	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	.		No issues related to backfilling. Proposal of backfilling has been envisaged after full extraction of mineral & Generated waste has been backfilled in the mine out area.

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(2) of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2020-21 has been submitted.	However some discrepencies observed in PMCP Report 2020-21, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 24.01.2022.

6b	Area available for rehabilitation (ha) .	An area of 0.88 Ha has been proposed to rehabilitate during the reporting year.	0.210 hect.	Nil
6c	afforestation done (ha).	0.88 hect. area	0.210 hect.	Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 24.01.2022 for not carrying out plantation as per proposal.
6d	No. of saplings planted during the year	400 nos.	250 nos.	Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 24.01.2022 for not carrying out plantation as per proposal.
6e	Cumulative no .of plants	No specific proposal given in this regard.	The commulative nos. of plantation not reported correctly in the submitted PMCP report.	Violation of Rule 26(2) of MCDR 2017 issued vide letter dated 24.01.2022.
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 specific proposal for cost of watch and care.	Approx. Rs. 50000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No specific proposal of voids available for backfilling has been given.	Not applicable.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	An area of 0.2Ha has been proposed to backfill.	About 0.2 hect area backfilled.	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal of afforestation on backfilled area.	Not applicable as no proposal of afforestation on backfilled area.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal of making water reservoir.	Not applicable as no proposal of making water reservoir.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable as no proposal.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	400 numbers of the saplings has been proposed to plant during the year 2020-21.	250 nos. as reoported in AR 2020-21.	Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 24.01.2022 for not carrying out plantation as per proposal.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.88 hect. area	0.210 hect. area	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)	Regular monitoring of environment parameters.	Monitoring has been carried out for the reporting year.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Some discrepencies observed in PMCP Report 2020-21, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 24.01.2022.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of sorting.	No grade-wise sorting.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable.	Nil
7c	Different grade of mineral sorted out at mines.	No specific proposal of grade wise sorting.	Not applicable as no proposal.	Nil
7d	Any beneficiation process at mines	No beneficiation process.	Not applicable as no beneficiation process.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issued related to Mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during the year 2020-21.	Not applicable as no proposal of top soil generation.	Nil
8b	Concurrent use or storage of topsoil	Not applicable as no proposal of top soil generation.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste has been proposed to backfill and no proposal of reject and fines generation during the year 2020-21	Generated waste has been backfilled. No generation of reject and fines.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	An area of 0.20 Ha has been proposed to backfill.	Very small scale backfilling has been carried out during the year.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal of reclamation during the year 2020-21.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Planation over 0.88 ha with 400 numbers of saplings has been proposed.	250 nos. sapling reported over an area of 0.210 hect.	Nil
8g	Survival rate	No proposal.	60%.	As per AR 2020-21.
8h	Water sprinkling on roads to control airborne dust	Proposed	Observed	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty 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, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	Found correct.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	Plantation: 250 numbers within lease area.	Less than proposed	Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 24.01.2022 for not carrying out plantation as per proposal.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject reported	Found correct.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of 115818.271 tonnes siliceous earth was reported in AR 2020-21.	Colosing stock seems correct.	The production of 118 tonne of Siliceous Earth reported in grade wise produtin section only whereas in ROM production reported as 0 tonnes, hence annual reaturn referback by MMS division vide dated 05.01.2022.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price- Rs. 769 per tonne	Seems correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Details given	Seems to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Seems to be correct.	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)	24-JAN-22			
MCDR17	Rule 26(2)	24-JAN-22			

Date :

(D R GURJAR)

Indian Bureau of Mines