

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-21/SE-07

Mine code : 97RAJ14001

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri radheshyam Paliwal, Mining Engineer.
Official with
Designation
- (iv) Date of Inspection : 10-JAN-20
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAPURIA(11/08)**
- (b) **Registration NO.** : **9009/IBM**
- (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 :
Pin Code :
FAX No. : 0294-2490538
E-mail : seemamineral@hotmail.com
Phone : 9414156880
- (f) Police Station : Kapuria
- (g) First opening date : 25-OCT-10
- (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 : RAJ5163
- (b) Lease area : 4.41
- (c) Period of lease : 50
- (d) Date of Expiry : 15-SEP-60
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: Jaislamer
 JAISALMER RAJASTHAN
 Phone:
 FAX : 9414156880

Mining Engineer

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

Geologist

Name : Nirupama Jain, Part Time
 Qualification : M.Sc Geology
 Appointment/ : 18-SEP-17
 Termination date

Manager

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

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 22-MAR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the previous year i.e. 2017-18 four number of exploratory pits namely PTP-06 to PTP-09 and one BH namely BH-1 has been proposed.	No exploratory pit and BH has been carried out during the year 2017-18.	Violation of MCDR issued vide letter dated 10/02/2020.
1b	Exploration over lease area for geological axis 1 or 2	During the reporting year no proposal of exploration.	No exploration during reporting year.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploratory agency and expenditure.	Not applicable as no exploration during reporting year.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal about the balance 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 22/03/2017, the position of reserve and resource was 62981.56 and 71771.02 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 57511.56 and 71771.02 tonnes respectively.	Depletion of 5470 tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	To explore the mineral occurrence Exploration has been proposed through trial pits and exploratory BH in the year 2017-18.	Exploration has not been carried out as per proposal.	Violation of MCDR issued.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	100N to 190N/W110 to 225W	Development has been carried out within approved limits of proposal.	NIL.
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	1:0.03 T/T	1:0.03 T/T	NIL.
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	546.10 tonnes.	164.00 tonnes.	Waste generation as reported during mine inspection.
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.	Opencast method of mining is being in practice.	As reporther Mine is under temporary suspension since 24/06/2019 due to lack of market demand.

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	16717.77 Tonnes.	5470.00 tonnes.	Low production due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery.	100% Recovery.	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 MR 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.	As the Mining operations are under discontinuation, only excavator has been observed.	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 1.38 Ha at the end of the plan period i.e. 2019-20.	An area around 0.50 Ha. has been observed under excavation.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.03 T/T	1:0.03 T/T	NIL.
3o	Total area put in use under different heads at the end of year	An area of 1.922 Ha has been proposed to put in use at the end of the plan period i.e. 2019-20.	It is reported during mine inspection an area of 3.80 ha. has been put under different heads (Including reclaimed area).	Violation of rule 45(7) pointed out for incorrect land use details in AR 2018-19.

3p	Production of ROM mineral during the last five year period as applicable	2014-15: 4209 2015-16: NIL. 2016-17: NIL. 2017-18: 16203 2018-19:16718	2014-15: 1703 2015-16: NIL 2016-17: NIL 2017-18: NIL 2018-19: 5470	All figures in tonnes. Low production is in account of the lake of market demand.
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 opencast method is suitable.	Mine was under temporary suspension since 24/06/2019 due to lack of market demand.

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 generated has been backfilled.	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 generated has been backfilled.	NIL.
4c	Number of dumps within lease area and outside of lease area	One.	Waste of dump has been backfilled.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal of waste dumping during the reporting year.	Generated waste has been backfilled as per proposal.	NIL.
4e	Number of active and alive dumps.	No proposal of active and alive dumping during RY.	Not applicable as no proposal.	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.	No proposal of Retaining wall and Garland drain during the reporting year.	Not applicable waste has been backfilled.	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	Generated waste has been proposed to backfill in mine out pit area during RY.	Waste has been backfilled in mine out area.	No issues related to waste dumping.

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.	After full extraction of mineral the backfilling was proposed.	Backfilling has been carried out in mined out area after full extraction of mineral.	NIL.
5b	Area under backfilling of mined out area	It is proposed that at the end of Review period about 0.4 hecta. area will be backfilled.	It has been reported that an area of around 0.35 has been backfilled.	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	An area of 0.13 Ha has been proposed to reclaim during the reporting year.	An area of 0.35 has been reclaimed during the reporting year.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposal of backfilling has been envisaged after full extraction of mineral.	Generated waste has been backfilled in the mine out area.	No issues related to 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 10/02/2020.
6b	Area available for rehabilitation (ha) .	An area of 0.147 Ha has been proposed to rehabilitate during the reporting year.	Not reported	Violation of MCDR issued vide letter dated 10/02/2020.
6c	afforestation done (ha).	An area of 0.147 Ha has been proposed to rehabilitate during the reporting year.	Not reported	Violation of MCDR issued vide letter dated 10/02/2020.
6d	No. of saplings planted during the year	120 numbers of the saplings has been proposed to plant.	Within lease area 1068 and outside lease area 430 saplings has been planted.	As per AR 2018-19.
6e	Cumulative no .of plants	240 number of trees (2017-18 to 2018-19).	Cumulatively 1180 number of plants has been planted.	As per annual return 2017-18 and 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 specific proposal for cost on watch and care.	It has been reported that around RS.25000/- has been spend towards watch and care.	Violation for non-submission of PMCP report issued.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	An area of 0.13 Ha has been proposed to backfill.	It has been reported that an area of around 0.35 has been reclaimed.	Violation for non-submission of PMCP report issued.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	546.10 tonnes.	164.00 tonnes.	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 making reservoir.	Not applicable as no proposal of making 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	Rehabilitation with 120 numbers of saplings by plantation.	A total of 1068 number saplings has been planted.	As per AR 2018-19.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 0.147 Ha has been proposed to rehabilitate during the reporting year.	Not reported.	Violation of MCDR issued.
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.	Plantation over 0.147 ha has been proposed	Not reported.	Violation of MCDR issued for non-submission of PMCP report vide letter dated 10/02/2020.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting within lease area.	Sorting within lease area.	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.	No specific proposal about grade.	Not applicable as no proposal.	NIL.
7d	Any beneficiation process at mines .	No beneficiation process at the mine.	Not applicable as no beneficiation process at the mine.	NIL.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of Mineral rejects/ Sub-grade generation during the year.	No Mineral reject has been generated during the year.	No issued related to Mineral conservation.
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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 2018-19.	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.	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	No specific proposal on the area. It is proposed that OB shall be backfilled from 4th Year i.e 2018-19.	The OB generated during the year has been backfilled.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No specific proposal on the area. It is proposed that OB shall be backfilled from 4th Year i.e 2018-19.	The OB generated during the year has been backfilled.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Planation over 0.147 ha with 120 numbers of saplings has been proposed.	Within lease area 1068 and outside lease area 430 saplings has been planted.	As per annual return 2018-19.

8g	Survival rate	No specific proposal of survival rate.	60%	As reported in AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Observed during mine inspection.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Planation over 0.147 ha with 120 numbers of saplings has been proposed.	An area of 1.0 Ha has been planted with 1068 numbers of saplings within lease area.	Aesthetic beauty of the mine is being improved.

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	Information has been furnished about Mining Engineer, Geologist, and Manager.	Mining engineer and Geologist are appointed.	NIL.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining: 0.511 Ha, Covered under current (O/C) Workings: 0.70 Ha, Reclaimed/Rehabilitated: 1.1 Ha, Used for waste disposal: 1.1 Ha, Occupied by plant, buildings, residential, welfare buildings & roads: 1.1 HA, Other Purpose (Plantation): 1.1 Ha,	On examination it is observed that land use at the end of the year 2018-19 furnished appears incorrect.	Violation of MCDR issued.
9d	Scrutiny of Annual return on afforestation	Plantation within lease area: 1068 numbers and outside of the lease area 430 numbers.	Information of afforestation furnished appears correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information on Mineral reject generation furnished is NIL.	No mineral reject has been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 6523.722tonnes and graded stock: 4411.972tonnes .	Closing stock of the ROM appears to incorrect.	Violation of MCDR issued.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price is Rs. 512.80 per tonnes and cost of production furnished is Rs. 513.00 per tonnes.	Information furnished has been found to correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is NIL.	Found in order.	NIL.

9k	Scrutiny of Annual return on mining machineries	Details given. The information furnished found to correct.	NIL.
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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)	10-FEB-20			
MCDR17	Rule 11(4)	10-FEB-20			
MCDR17	Rule 26(2)	10-FEB-20			
MCDR17	Rule 33	10-FEB-20			
MCDR17	Rule 45(7)(a)	10-FEB-20			

Date :

(DILIP JAIN)

Indian Bureau of Mines