

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Radheshyam Paliwal, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 19/07/2023
- (v) Prev.inspection date : 20/03/2023

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 : 23/12/2001
- (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 : 22/12/2031
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/ : 26/06/2018
 Termination date

Geologist

Name : Pravez Ahmed Dyre, Full Time
 Qualification : MSC Geology
 Appointment/ : 01/12/2021
 Termination date

Manager

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

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	14/07/2014
Plan/Scheme of Mining		MP review under 17(1) MCR 2016	19/05/2017
		MP modif under 17(3) MCR 2016	19/03/2021
		MP review under 17(1) MCR 2016	02/02/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It was proposed to put 15 trenches during the year 2022-23 with 20 m length, 5 m width and 15 m depth	Due to lack of demand mining operations were carried out on small scale.	
1b	Exploration over lease area for geological axis 1 or 2	It was proposed to put 15 trenches to convert 4.0 hectares of lease area from G-2 to G-1 axis and 16.2 hectares of lease area from G-3 to G-1.	Only 4 trenches	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	No expenditure reported as incurred on exploration during the year 2022-23.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Four hectares of area is under G-2 where as 16.2 hectare of area falls under G-3.	Total 2.8 hectares of area upgradated during Proposal Period as per guidelines of MEMC Rule 2015).	
1e	Balance reserve as on 01/04/20	Balance reserves proposed as on 01/04/2023 Rs. 3,05,637.6	Balance reserves as on 01/04/2023 is Rs. 3,05,775.	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	It was proposed to develop Pit-4 in NW-SE direction during the year 2022-23.	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was propose to develop one bench in top soil, four benches in overburden/IBa and one bench in mineral.	As per proposal
2c	Stripping ratio or ore to OB ratio	1:61.47 during the year 2022-23	As above
2d	Quantity of topsoil generation in m3	5400 cu.m.	Nil as reported.
2e	Quantity of overburden generation in m3	20808 cu.m.	Nil as reported.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of development of pit w.r.t. of type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit, Pit-4 during the year 2022-23	As per proposal	
3b	Quantity of ROM mineral production proposed	It was proposed to producce 1038.4 t ROM with 934.56 t recovery.	During the period 901 t produced.	
3c	Recovery of sailable/usable mineral from ROM production	It was proposed to producce 1038.4 t ROM with 934.56 t recovery.	Total 901 t ROM produced.	
3d	Quantity of mineral reject generation	103.84 t during the year 2022-23	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	NA	Not applicable
3f	Quantity of sub grade mineral generation.	No sub grade generation proposed.	Not applicable.
3g	Grade of sub grade mineral generation	Total 10 % of ROM was supposed to be generated as mineral reject.	Nil during the year 2022-23.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	Not applicable.
3j	Provision of drilling and blasting in mineral benches	No provision of drilling and blasting	Not applicable
3k	Provision of mining machineries in mineral benches	JCB 0.9 cu.m.- One and Dumper 10 t- One	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, the height of benches (4 m.) in overburden and mineral is suitable for method of mining proposed in MP.
3m	Total area covered under excavation/pits	5.87 hectare under Mining.	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1:61.47	As per proposal

3o	Total area put in use under different heads at the end of year	Area under Mining- 5.87, Overburden/ Waste Dumping 0.08 hectare, Mineral Storage- 0.09 hectare, Infrastructure - 0.4 hectare, Roads -0.57 hectare during the year 2022-23.	As per proposal
3p	Production of ROM mineral during the last five year period as applicable	2018-19:25441 t 2019-20: 00 2020-21: 25421.33 t 2021-22: 6002 t 2022-23: 1038.4	2018-19: 5405 t 2019-20: 00 2020-21: 118 t 2021-22: 789 t 2022-23: 901 t
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of method of mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumps are temporary in nature. Simultaneous backfilling is being practised in the mine.	Yes as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	N2924675-N2924751' E700486-E700757	N2924675-N2924751' E700486- E700757	
4c	Number of dumps within lease area and outside of lease area	3 within mining lease area.	3 within mining lease area.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The nature of dumps are temporary. Simultaneous backfilling is being practised in the mine.	Dumps are temporary in nature. Simultaneous backfilling is being practised in the mine.
4e	Number of active and alive dumps.	3 active and alive dumps	3 active and alive dumps.
4f	Number of dead dumps.	Nil	None
4g	Number of dumps established.	No such proposal	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for Garland drain during teh year 2022-23.	Not applicable.
4i	Length of Retaining wall or garland drain all along dumps	No proposal for Retaining wall or Garland drain during teh year 2022-23.	Not applicable
4j	Number of settling ponds	No such proposal	Not applicable.
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of waste dump management may be considered as satisfactory.

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.	Full extraction of mineral from mined out area before start of backfilling.	Full extraction of mineral from mined out area before start of backfilling is being done.	
5b	Area under backfilling of mined out area	0.24 hectare area proposed under backfilling of mined out area during the year 2022-23.	0.15 hectare	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes concurrent use of top soil for restoration of mineral out area proposed.	As per proposal
5d	Total area fully reclaimed and rehabilitated	0.24 hectare	0.15 hectare
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The overall status of backfilling and reclamation may be considered as satisfactory.

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	Yes, submitted	
6b	Area available for rehabilitation (ha) .	0.24 hectare	0.15 hectare	
6c	afforestation done (ha).	0.1 hectare of area proposed during the eyar 2022-23.	0.1 hectare covered under afforestation program during the year 2022-23	
6d	No. of saplings planted during the year	Total 100 saplings proposed to be planted during the eyar 2022-23	Total 200 saplings planted within the lease area during the year 2022-23.	
6e	Cumulative no .of plants	500 Nos. wit hsurvival rate 65%	2250 Nos.	
6f	Any other method of rehabilitation	Not proposed.	Not applicable	
6g	Cost incurred on watch and care during the year	0.25 lakh	0.25 lakh as reported.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Total 0.31 hectare of area was available out of which 0.2 hectare area reclaimed by the way of backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.31 hectare	0.2 hectare of area ahs been covered under afforestation on back filled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	Not applicable.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.31 hectare	0.2 hectare of area may be considered as rehabilitated.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Not applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes,	Environmental monitoring is being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance and progressive closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	1064.100 t mineral dispatched during the year 2022-23.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Petroleum grade and ceramic grade	Petroleum grade and ceramic grade	
7d	Any beneficiation process at mines	None	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of Mineral Conservation beneficiation issues may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes , is being done.	

8b	Concurrent use or storage of topsoil	Yes	Yes, is being done
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, dumps are of temporary in nature.	Yes, but dumps are of temporary in nature.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes, same is being practised.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes, phased restoration is being done.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 Nos.	2250 saplings have been planted survived so far with survival rate approx 60%. Out of which 200 saplings planted during the year 2022-23.
8g	Survival rate	70%	The survival rate is very poor due to scarcity of water and less rain.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes as per proposal but due to scarcity of water occasional sprinkling is being practised in the mine as reported.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes, as per rule	Yes, as per rule.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Radhey Shyam Paliwal Mining Engineer, Shri Parvej Ahmed-Geologist.	Yes, the information is furnished,
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total lease area : 48.700 hectares, Already exploited and abandoned by opencast (O-C) mining- 4.750 ha, Covered under current (O-C) Workings- 0.2 ha, Reclaimed-rehabilitated- 0.2 ha, Occupied by plant, buildings, residential, s and roads- 1.530 ha and Plantation- 1.010	Yes the above information seems to be correct.
9d	Scrutiny of Annual return on afforestation	Used for Plantation- 1.010 ha, Total no. of trees at the end of the year -2250 with survival rate 60%. Out of which 200 saplings planted during the year 2022-23	Yes, The plantation has been done by teh party, but due to scaricity of water the survival is poor.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject	No mineral reject observed in the lease area.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock - 15861.381 T, Production - 901 T, Despatch- 1064.100 and Closing stock at mine-head- 15698.281	Yes, the ROM stock as given under item Part-VI (PRODUCTION, DESPATCH AND STOCK) seems to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value Rs. 702692.72 for 1064.10 T (Rs. 660/T aprox.) Cost of production reported as Rs. 526.	Yes, the details are given in the AR.
9h	Scrutiny of Annual return on fixed assets	Plant and Machinery including transport equipment - Rs. 2738620 (at the begning with depreciation- Rs. 411051 Net Closing balance of Rs. 2327569 have been shown in the AR.	The information regarding Plant and Machinery head is provided.
9k	Scrutiny of Annual return on mining machineries	OTHERS (NON-ELEC. : 1 TIPPER : 3 have been given in the AR	The information has been furnished in this regard.

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 :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines