

**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 : **P019** ) **Parkash Chetan**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sh. M K Chittora, POA  
Official with  
Designation
- (iv) Date of Inspection : 11-FEB-17
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KAPURIA(01/01)**
- (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 : Kapuriya
- (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 :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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 :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 14-JUL-14  
Plan/Scheme of Mining

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	One prospecting pits proposed to be done in 2015-16	Done	Nil
1b	Exploration over lease area for geological axis 1 or 2	Same as above	Done in 2015-16	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s. Seema Minerals & Metals 0.05 Lac	M/s. Seema Minerals & Metals 0.06 Lac	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	nil
1e	Balance reserve as on 01/04/20	the balance reserves proposed as on 1.4.2017 was 536928 tonnes	637605 tonnes remaining as on 1.4.2017	Now as as per review of mining plan submitted afresh the 0 the balance reserves on 1/4/202 will be 370829 tonnes
1f	General remarks of inspecting officers on geology, exploration etc		This is an old workiking mines> the reserves is well established for nex five years.	Satisfactory, howevee fresh proposal are also given in review of mining plan submitted in 2017.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area no 1	In middle portion of pit	At proposed location.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate bench in Top soil, OB and in Mineral proposed.	There is no prominent layer of Top soil observed in the excavated area , the bench inbetween OB and Mineral has been formed.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.95	About 1:1.71 is reported.	

2d	Quantity of topsoil generation in m3	2632 tonnes during 2015-16	About 592 tonnes were removed.	There is no prominent layer of Top soil observed in the excavated area
2e	Quantity of overburden generation in m3	21606 Cubic meter during 2015-16	12703 Cubic meter OB removed during 2015-16	Due to less production of mineral as per market demand as reported by lessee.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	---	The working pit has been developed by forming benches inbetween OB and Mineral , hence satisfactory

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Being done in single pit	
3b	Quantity of ROM mineral production proposed	25495 MT during 2015-16 and 25539 for 2016-17	3231 MT during 2015-16 and 5925 in 2016-17	
3c	Recovery of sailable/usable mineral from ROM production	During 2015-16 mineable 25495 with 100% recovery	Recovery reported as 100% .	
3d	Quantity of mineral reject generation	No proposal for reject is given in approved mioning plan	Not applicable.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Nil	All the Siliceous Earth produced is graded and is used in owner's grinding mill. There is no reject/subgrade produced.
3f	Quantity of sub grade mineral generation.	No proposal.	Nil	
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised with Excavator and dumpers	Mechanised with Excavator and dumpers	
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	There is no proposal of drilling and blasting.	No drilling and blasting.	
3k	Provision of mining machineries in mineral benches	Mechanised with Excavator and dumpers.	Excavation with the help of excavator and dumpers as proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height & width of benches proposed 1.5 m in OB and mineral.	As proposed.	
3m	Total area covered under excavation/pits	0.73 hect for SOM period and cummulative about 7.05 hect upto 1.4.2017.	Up to 1/4/2017 about 4.4678 hect area has been covered under pits/excavation.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.95	About 1:1.71	
3o	Total area put in use under different heads at the end of year	3.44hect area is proposed for present SOM period and cummulative upto 1/4/2017 total 15.1hect have been proposed.	So far covered under pit/excavation and its allied activities. 9.2728 hect area.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14= 25541 tonnes 2014-15= 25553 tonnes 2015-16= 25495 tonnes 2016-17= 25539 tonnes	2013-14= 4940 tonnes 2014-15= 3355 tonnes 2015-16= 3231 tonnes 2016-17= 5925 tonnes	

3q	General remarks of inspecting officers on method of mining etc.	Satisfactory , However the excavation is lowere side, the lessee reported due to lack of market demand.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of OB and Top soil is proposed.	As per proposal.	However the Ob was also used in simultaneously backfilling of excavated areas.
4b	Location of topsoil, OB and mineral reject dumps	Near pillar A	As per proposal.	
4c	Number of dumps within lease area and outside of lease area	Single dump with in lease area	Being done.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit Limit: 580 X 232 m 16 m	Outside UPL about 580 X 200 m 12 m	
4e	Number of active and alive dumps.	Single	Single	
4f	Number of dead dumps.	No proposal	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	
4j	Number of settling ponds	None	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			The general maintainance of dump is 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.	Backfilling of OB and top soil is proposed to be done in excavated areas.	Backfilling have been started in excavaed area and so far 0.7911 hact area is backfillied.	
5b	Area under backfilling of mined out area	100X70meters	So far 0.7911 ha area is backfilled.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	For backfilling and plantation.	
5d	Total area fully reclaimed and rehabilitated	No specific proposal	Backfilling is being under progress	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Simultaneous backfilling is observed, which is 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).	No specific proposal is given.	No Annual report on PMCP is submitted.	Violation of rule 26(2) of MCDR 2017 has been pointed out to lessee.
6b	Area available for rehabilitation (ha) .	Not sepecified	Not applicable	
6c	afforestation done (ha).	Not specified	1.0524 hact. area is covered under plantation.	
6d	No. of saplings planted during the year	600 proposed.	230 as reported. and as on date of inspection cummulative 2568 sapling has been reported.	Due to scaricity of water in Jaiselmer district as it is a famous thar desert, it is satisfactory.
6e	Cumulative no .of plants	No specific proposal	As on date of inspection cummulative 2568 sapling has been reported on 1.0524hact area..	

6f	Any other method of rehabilitation	No specific proposal	Not applicable at this stage.
6g	Cost incurred on watch and care during the year	No specific proposal is given	No record is available.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	110X80meters	So far 0.7911 ha area is backfilled.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling by Waste and top soil.	As per proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	During the year 20145-16 there is no specific proposal of plantation on backfilled area	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed at this stage	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed except backfilling by OB/Waste and top soil.	As per proposal.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed at this stage	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed	Not applicable.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Backfilling in excavated area is started and about 0.7911 ha area has been backfilled and leveled.	Satisfactory
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual graded and is used in owner's grinding mill.	As per proposal, All the Siliceous Earth produced is graded and is used in owner's grinding mill.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Two grade of minerals.	Being done	All the Siliceous Earth produced is graded and is used in owner's grinding mill.
7d	Any beneficiation process at mines .	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The recovery of usable grade is 100% there is no subgrade and reject.	Satisfactory

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal of top soil is proposed	done as per proposal.	
8b	Concurrent use or storage of topsoil	backfilling and plantation	As per proposal.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump of waste is proposed.	Waste is dumped seperately
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For simultaneous backfilling in excavated areas.	As per proposal.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling and plantation	Being done.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional 600plants has been proposed.	About 230trees have been planted during the year and so far 2568 sapling has been planted.
8g	Survival rate	80%	Not available.
8h	Water sprinkling on roads to control airborne dust	No proposal in approved mining plan/SOM	Not applicable
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Backfilling in excavated area is in progress and plantation is also being planted on virgin land near mine office etc.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R upto Jan - 2017 & A.R. for 2015-16	M.R Submitted upto Jan - 2017 A.R. Submitted upto 2015-16	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Sh. M. K. Chittora Geologist: Mr. Ashok Pardeshi	Both appointed as full time. Sh Ashok Pardehi is not qualified as he is diploma holders only.	Mining engineer and Geologist as per provision of MCDR 2017 is not yet appointed, violation of rule 55 of MCDR 2017 is being issued to lessee.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	details of land use given in AR 20154-16	Found in order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject, hence reported as Nil	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given in AR	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details given. Ex mine price is given as 650/- per tonnes.	Found in order.	
9h	Scrutiny of Annual return on fixed assets	details furnished for fixed assett.	fixed assets given in order.	
9k	Scrutiny of Annual return on mining machineries	Details of machinery given.	Found in order as used at the mine.	

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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

Date :

(Parkash Chetan)

Indian Bureau of Mines