

**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, Mines Manager & POA
Official with
Designation
- (iv) Date of Inspection : 17-FEB-18
- (v) Prev.inspection date : 11-FEB-17

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 : RAJ5162
- (b) Lease area : 48.7
- (c) Period of lease : 50
- (d) Date of Expiry : 22-DEC-51
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 :

Mining Engineer

Name : Sh Manoj Kumar Ray, Part Time
 Qualification :
 Appointment/ : 01-NOV-17
 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 : Mining Scheme rule 12 MCDR1988 14-JUL-14
 Plan/Scheme of Mining MP review under 17(1) MCR 2016 19-MAY-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed during 2016-17	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 4 hact.	Nil, as no proposal for exploration in the year 2016-17	Mining plan approved on 19-5-2017 for the period of 2017-18 to 2021-22
1e	Balance reserve as on 01/04/20	517409 tonnes will be available as on 1/4/2020 as per proposal given in mining plan	As on date of inspection i.e 17/2/2018 the reserves is available as 583555 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		The proposal is given for exploration by Trial pit in about 4.0 hact virgin area during coming years..	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Two pit pit 1 = in between grid 200-300E & 300-400 N Pit no 2= 1730-1820E and 0-70N	As per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in approved mining plan as 6mts in minerals	No separate benches is observed during field visit	Violation of Provision of MCDR 2017 is being pointed out to lessee.

2c	Stripping ratio or ore to OB ratio	1:1.63	1:2.53	Due to more overlain alluvium/soil.
2d	Quantity of topsoil generation in m3	5544 tonnes	1000tonnes	
2e	Quantity of overburden generation in m3	13903M3	5750M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Benches not developed systematically.	Unsatisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	As per proposal	
3b	Quantity of ROM mineral production proposed	67233tonnes in the year 2016-17	5925tonnes during the year 2016-17	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal for reject generation is given in approved mining plan	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised with Excavator and dumper	As per proposal.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	There is no provision of drilling and blasting	No drilling and blasting
3k	Provision of mining machineries in mineral benches	JCB Excavator-1 and Tractor Trolley -3	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 6mts is proposed which was suitable for JCB works.	No systematic benches was developed.
3m	Total area covered under excavation/pits	About 7.69 is proposed	About 5.0 hect area has been covered under excavation till date
3n	Ore to OB ratio for the pit/mine during the year.	1:1.63 for the year 2016-17	1:2.53
3o	Total area put in use under different heads at the end of year	About 11.84 hect area is proposed under different head.	About 9.9 hect area is covered under different heads.
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 2017-18= 25495 tonnes	2013-14=4940 tonnes 2014-15=5488 tonnes 2015-16=3231 tonnes 2016-17=6205 tonnes 2017-18= 10140 tonnes (Till jan2018.)
3q	General remarks of inspecting officers on method of mining etc.		Satisfactory however excavation is lower side, the lessee reported it is based on market demand.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of OB and top soil is proposed	As per proposal
4b	Location of topsoil, OB and mineral reject dumps	Near Pillar A in side the lease.	As per proposal
4c	Number of dumps within lease area and outside of lease area	Two	Two
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in lease area	Being done
4e	Number of active and alive dumps.	Two	Two
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		The geberal maintainance of dump is satisfactory as simultaneous backfilling is also being continued in mined out area , hence the dump size is not enlarging at present.

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 is proposed	As per proposal	

5b	Area under backfilling of mined out area	No specific proposal is given in approved mining plan	So far about 0.9020 hact area (about 110x82 meter area) is covered under backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation	As per proposal
5d	Total area fully reclaimed and rehabilitated	No specific proposal	About 0.902 hact area is backfilled and reclaimed.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		About 0.902 hact area is backfilled and reclaimed and simultaneous backfilling is going on in mined out areas.

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 er rule	Annual report for 2016-17 has been recieved.	
6b	Area available for rehabilitation (ha) .	Not specified.	Not applicable	
6c	afforestation done (ha).	Not specifeid	About 1.1 hact area is covered under plantation.	
6d	No. of saplings planted during the year	600sapling is proposed.	830 sapling has been planted with in M1 and 460 outside M1 area .	
6e	Cumulative no .of plants	No specific proposal	About 3396 sapling has been planted. on 2.9 hact area.	
6f	Any other method of rehabilitation	No specific proposal	Not pplicable	
6g	Cost incurred on watch and care during the year	No specific proposal.	No record is available.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No specific proposal is given.	So far about 0.9020 hact area (about 110x82 meter area) is covered under backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	backfilling by waste and spreading of top soil/alluvium	As per proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No specific proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	By plantation	as per proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposal	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		About 0.902 hact area is backfilled and reclaimed. and in mined out area the simultaneously backfilling is going on. Plantation is in lower side it is due to desert climate and scarcity of water in the area.

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.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Not specified	Not applicable.	
7d	Any beneficiation process at mines	Not proposed	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The recovery of usable grade is 100% there is no reject and subgrade.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for 2016-17	Not applicable however about 1000 tonnes of top soil generated and utilized.
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)	Yes	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Simultaneous backfilling in excavated area is observed during field visit.
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 400 plants has been proposed.	About 20 sapling has been planted and so far 2588 sapling has been planted.
8g	Survival rate	Not specified	Not available.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		backfilling is in progress plantation is also being planted but in lower side.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule	Annual returns for the year 2016-17 has been recieved.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details regarding Geologist given and for ME details given as Nil	Accepted.	Now mining engineer appointed on 11/11/2017 after submission of Annual returns.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Accepted.	
9d	Scrutiny of Annual return on afforestation	Details given as 830 with in lease and 460 out sited lease with 60% survival rate	Accepted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detials given as Nil	Accepted	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Accepted	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	Not accepted as given details has no correlation with cost of production reported in part VII with information supplied on actual expenses in Part IIA ,III and IV. Ex factory sale value is given, witch is no relevance, because Sale value /exmine price is needed to be submitted only. However the mine is captive as per section 12A sub section (6) (i.e where the use of entire quantity of mineral extracted from the mining lease in a manufacturing unit owned by the lessee.)	In this regard, A violation letter pointing out discrepancies in Annual returns have already been issued to lessee on 5/2/2018.

9h	Scrutiny of Annual return on fixed assets	Details given	Accepted.
9k	Scrutiny of Annual return on mining machineries	Details given.	Accepted.

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