

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-20/SE-6

Mine code : 97RAJ14011

- (i) Name of the Inspecting : **P019**) **Parkash Chetan**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Ratan Khatri, Representative
Official with
Designation
- (iv) Date of Inspection : 17-MAR-17
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANDAI(3/94)**
- (b) **Registration NO.** : **IBM/7317**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JAISALMER
Village : MANDAI
Taluka : FATEHGARH
Post office :
Pin Code :
FAX No. :
E-mail : AMMORPHOUSSILICA@GMAIL.COM
Phone : 9413216944
- (f) Police Station :
- (g) First opening date : 17-JUL-97
- (h) Weekly day of rest :
2. Address for : Resident- Anko ki POL
correspondance Vill & post Gajner 334001
Tah Kolayat, Dist Bikaner
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 : SMT. SUNDAR DEVI SADANI
SMT. SUNDAR DEVI SADANI W/O
SH. K. L. SADANI, P.O. -
GAJNER, BIKANER -334301
BIKANER RAJASTHAN
Phone:
FAX :

Owner : SMT. SUNDER DEVI SADANI
VILL & POST-GAJNER, TEH-
KOLAYAT, DISTT- BIKANER RAJ
344301 BIKANER RAJASTHAN
Phone: 9783319401,9413
FAX :

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal approved in mining plan	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal approved in mining plan	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No out side agency was to be involved.	No out side agency was to be involved., No expenditure on exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not applicable in view of above.	Not applicable.	
1e	Balance reserve as on 01/04/20	as on 1/4/2017 the balance reserves proposed as 111- 79690 121-24300	as on 1/4/2017 the available balance reserves is 111- 130698 121-24300	The production/excavation of ROM have not achieved/taken upto proposed target.
1f	General remarks of inspecting officers on geology, exploration etc			Most of the mineralised area is opened and reserves is available for next five years.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In north portion of lease area near boundary line AD	As per proposal	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in Top soil and Waste/OB and mineral is proposed	Separate benches provided.	
2c	Stripping ratio or ore to OB ratio	1:0.27	Not available as the mine was closed during 2015-16.	
2d	Quantity of topsoil generation in m3	1785	Nil, mine was closed during 2015-16	

2e	Quantity of overburden generation in m3	5355	Nil	Mine was closed during 2015-16
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The pit has been developed with proper benches.	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	As proposed.	
3b	Quantity of ROM mineral production proposed	19650MT	Nil	Mine was closed during 2015-16
3c	Recovery of sailable/usable mineral from ROM production	90% recovery is propsed	Nil	No excavation during 2015-16
3d	Quantity of mineral reject generation	1965MT	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed.	NIL	
3f	Quantity of sub grade mineral generation.	No proposal given in approved mining plan	Not applicable.	
3g	Grade of sub grade mineral generation	Not proposed.	Not applicable	
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.	Not proposed.	Not applicable.	

3j	Provision of drilling and blasting in mineral benches	Drilling and blasting not proposed.	Not applicable.	
3k	Provision of mining machineries in mineral benches	One Pcoclain Excavator and four Dumper.	No machinery found at site as the working was discontinued.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches proposed 1m in OB and soil. In mineral it is up to 4M and width more than 3mts.	As per proposed.	
3m	Total area covered under excavation/pits	Upto 2015-16 the pit size proposed as 175x85mts.	About 100x 52m	Due to lower excavation/product ion.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.27	Nil	Mine was closed during 2015-16
3o	Total area put in use under different heads at the end of year	2.077hact at end of 1/4/2017	0.67 hact	
3p	Production of ROM mineral during the last five year period as applicable	2012-13=16389T 2013-14=17685T 2014-15=17685T 2015-16=17685T	2012-13=NA 2013-14=2880 2014-15=5062 2015-16=nil 2016-17 till date of inspection= nil	
3q	General remarks of inspecting officers on method of mining etc.		The pit development more of less as per proposal.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Backfilling of OB and top soil after second year onwards	As per proposal	Nil
4b	Location of topsoil, OB and mineral reject dumps	Near boundary line AB"	No top soil and waste dump observed.	Lessee reported trhat all the OB and top soil used in simultaneous backfilling

4c	Number of dumps within lease area and outside of lease area	Single dump with in lease area.	No top soil and waste dump observed.	Lessee reported trhat all the OB and top soil used in simultaneous backfilling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Near Ab Boundary line out side UPL.	No top soil and waste dump observed.	
4e	Number of active and alive dumps.	Nil	Nil	
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.	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Nil	
4j	Number of settling ponds	Not proposed.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management			The general houskeeping of waste anmd top soil is good, both are used in simultaneous bakfilling.

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 waste/top soil is proposed from second year onwards.	As per proposal.	
5b	Area under backfilling of mined out area	55x60m	About 0.22 hact.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation.	At present Backfilling only	

5d	Total area fully reclaimed and rehabilitated	55x60m = 0.33hact	Only 0.22 hact is backfillied, however , the working of mines is temporarily discontinued during 2015-16
5e	General remarks of inspecting officers on backfilling and reclamation etc.		0.22 hact area is backfillied

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).	Annual report to be submitted	Not submitted	Violation of rule 26(2) has been pointed out to lessee.
6b	Area available for rehabilitation (ha) .	Not specified	Not applicable	
6c	afforestation done (ha).	Not specified	Not specified	
6d	No. of saplings planted during the year	40sapling	during 2015-16 not done as the mine was closed during entire year.	
6e	Cumulative no .of plants	200 plants	40plants so far.	
6f	Any other method of rehabilitation	Not specified	not applicable	
6g	Cost incurred on watch and care during the year	Not specified	not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not specified	not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not specified	not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not specified	not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not specified	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not specified	not applicable	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	not specified	As reported by lessee, So far 40 sapling planted.	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not specified	not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By backfilling in excavated area	Done as per proposal	
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.		The mining operation is on small scale, and during the year 2015-16 the mine was closed.	

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Two grade of mineralsGrade wise sorting with in lease area	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.	Two grades	Two grades
7d	Any beneficiation process at mines	Not proposed.	Not applicable.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The recover is 90% and sorting is manual as per proposal.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal of top soil is proposed.	As per proposal.	
8b	Concurrent use or storage of topsoil	For backfilling	Done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed seperate dumping with simultaneous backfilling.	As per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed simultaneous backfilling.	Done	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in mining plan	Not done except backfilling of excavated area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 40sapling is proposed	So far only 40sapling is planted	Due to scarcity of water in thar desert, reported by lessee.
8g	Survival rate	Not specified	60%	
8h	Water sprinkling on roads to control airborne dust	Not proposed	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Backfilling in exhausted area is being done simulatingly.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR from April 2016 and Ar for 2015-16 is not submitted.	The violation of MCDR 2017 have been pointed out to lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual returns for 2015-16 not submitted by lessee	Not applicable	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not applicable	Not applicable	
9d	Scrutiny of Annual return on afforestation	Not applicable	Not applicable	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not applicable	Not applicable
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not applicable	Not applicable
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not applicable	Not applicable
9h	Scrutiny of Annual return on fixed assets	Not applicable	Not applicable
9k	Scrutiny of Annual return on mining machineries	Not applicable	Not applicable

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