

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-23/SE-09

Mine code : 97RAJ14002

- (i) Name of the Inspecting : **P019**) **Parkash Chetan**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Ashok Khatri, lessee
Official with
Designation
- (iv) Date of Inspection : 16-MAR-17
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAJIT(217/13)**
- (b) **Registration NO.** : **IBM/16828**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : SAJIT
- Taluka : FATEHGARH
- Post office :
- Pin Code :
- FAX No. :
- E-mail : ASHOKKHATRI@20NANO.COM
- Phone : 9414762777
- (f) Police Station :
- (g) First opening date : 01-DEC-14
- (h) Weekly day of rest :
2. Address for : Sh. Ashok Khatri S/o Late Shri Tikam Chand Khatr
correspondance Enko Ki Pol, Pokaran
Dist Jaiselmer
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 : ASHOK KUMAR KHATRI
Inko ki Pol Pokaran
JAISALMER RAJASTHAN
Phone:
FAX :

Owner : ASHOK KUMAR KHATRI
Inko ki Pol Pokaran
JAISALMER RAJASTHAN
Phone:
FAX :

Mining Engineer

Name : Shri Rajesh Nawal, Part Time
Qualification : BE(Mining)
Appointment/ :
Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 14-MAR-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	Nil	One PTP during current year and So far Three PTP have been carried out	Siliceous Earth encountered in all the three PTP
1b	Exploration over lease area for geological axis 1 or 2	Same as above	Same as above	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	As proposed	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	Not applicable	
1e	Balance reserve as on 01/04/20	The balance reserve as on 14/2016= 54960 tonnes and as on 1/4/2019= 12300tonnes	The available reserves as on 1/4/2016 is 64096 tonnes	The mine was started wef 1/12/2014
1f	General remarks of inspecting officers on geology, exploration etc		The mine was opened on 1/12/2014, after that 3 PTP has been put to confirm extension of mineral.	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In North Eastern Portion of lease.	At proposed site.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in top soil, waste and mineral proposed.	Separate benches formed as per proposal.	
2c	Stripping ratio or ore to OB ratio	1:033	1:030 as reported by lessee.	
2d	Quantity of topsoil generation in m3	Not specified	No record kept.	

2e	Quantity of overburden generation in m3	4054 Cum	3700 Cum as reported by lessee	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The pit developed systematically by forming benches and as per proposed in approved mining plan.	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	
3b	Quantity of ROM mineral production proposed	12150 tonnes	12114 tonnes in 2015-16	
3c	Recovery of sailable/usable mineral from ROM production	90%	lessee reprted 90% recovery. But, Practically total ROM is saleable.	As reported by lessee, Low grade rejects also markeded on lower price.
3d	Quantity of mineral reject generation	1214 tonnes.	About 1000 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	Grade 'D'	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
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.	Nil	

3j	Provision of drilling and blasting in mineral benches	Not proposed.	Nil,	As no drilling and blasting are required.
3k	Provision of mining machineries in mineral benches	Mechanised with JCB & Tractor trolley	As proposed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in OB and in mineral upto 3 and 4mts & width more than 3mts	As proposed.	
3m	Total area covered under excavation/pits	110X70mts	110X40mts	The mine was working only three mionth in 2014-15 as the first opening as on 1/12/2014. hence lower the pit development.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.33	1:0.30	
3o	Total area put in use under different heads at the end of year	2.75 up to 2018-19.	so far aboput 0.8 hact area covered under mining and its allied activities.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15=9600 tonnes 2015-16= 12150tonnes	2014-15=500 tonnes 2015-16= 12114tonnes	Mine was first opened on 1/12/2014
3q	General remarks of inspecting officers on method of mining etc.		The mining is systamatic with forming of benches	Satisfactory

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 with simulataneousl y backfilling after 2 years.	Being done.	

4b	Location of topsoil, OB and mineral reject dumps	Near pillar 'C'	Along boundary BC near pillar C
4c	Number of dumps within lease area and outside of lease area	Single dump	One small dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPl	Outside UPL
4e	Number of active and alive dumps.	One active	One
4f	Number of dead dumps.	Not proposed.	Nil
4g	Number of dumps established.	Not proposed.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	nil
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Nil
4j	Number of settling ponds	None	Not applicable
4k	Specific comments of inspecting officer on waste dump management		The general houskeeping 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.	Back filling is propsed to be carried oput after 2nd year.	Backfilling is being observed during the field visit	
5b	Area under backfilling of mined out area	Not specified.	0.07hact area is backfillid so far.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation.	Backfilling is started, plantation on it yet to be started.	
5d	Total area fully reclaimed and rehabilitated	Not year wise specified.	0.07hact area is backfilled so far.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The backfilling is being started in fully excavated area.	The mine is new , hence 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).	Annual report for 2015-16 is due.	Not submitted by lessee.	Violation of MCDR rule has been pointed out to lessee.
6b	Area available for rehabilitation (ha) .	Not specified yearly	0.08hact is available.	0.07hact area is backfilled.
6c	afforestation done (ha).	0.015	0.01	
6d	No. of saplings planted during the year	50sapling	50sapling	40% survival rate
6e	Cumulative no .of plants	100 plants	75 plants upto 2015-16	The mine was started as on 1/12/2014
6f	Any other method of rehabilitation	Not specified.	Not applicable.	
6g	Cost incurred on watch and care during the year	Not specified.	Rs. 40 000 spent on environment management including plantation, watch and care of plantation.	
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 backfilled area	Not specified	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not specified	However so far 0.07 hect area is backfilled.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not specified	About 75 plant have been 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	Not specified	Not applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The mining operation is on low scale using only JCB, backfilling is started.	Satisfactory except submission of annual returns on PMCP
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal	The ROM despatched after the dry. For this the ROM is spread on surface for dry than accumulate and despatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual, the ROM despatched after the dry. For this the ROM is spread on surface for dry than accumulate and despatched.	
7c	Different grade of mineral sorted out at mines.	Not specified	Nil	
7d	Any beneficiation process at mines	Not proposed.	Not appliucable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The ROM is being despatched after demoisuring, no threat to mineral conservation is observed.	Satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal of top soil and to be utilized in backfilling.	As proposed.	
8b	Concurrent use or storage of topsoil	Backfilling and plantation.	Backfilling started.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed seperate dumping with simultaneous backfilling from 3rd year.	Seperate stack and backfilling started.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling	Backfilling is being done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Same as above	Same as above	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50plantation every year	So far 75 sapling have been planted	
8g	Survival rate	Not specified.	40% as reported by Lessee.	
8h	Water sprinkling on roads to control airborne dust	Not propsed	Not applicabale.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		This is a newly opened mine, Backfilling started to restore the mined out land.	Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual retiuens for 2015-16 is due.	Annual returns for 2015-16 and monthly returns upto Feb 2017 have been recieved.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. Rajesh Kumar Nawal, Mining Engineer	Present at the time of field visit.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details are given	Found in order.
9d	Scrutiny of Annual return on afforestation	50sapling reported.	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1000 tonnes reject generation is mentioned.	Found in order.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details are given	in Order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Exmine price reported as Rs 500/- tonnes	Found in order
9h	Scrutiny of Annual return on fixed assets	Details on fixed assets are given as nil	No expenditure incurred on infrastructure yet
9k	Scrutiny of Annual return on mining machineries	One Backhoe of 0.300Cum capacity mentioned.	Found in order.

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