

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-26/SE-12

Mine code : 97RAJ14007

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

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHIYASAR(164/13)**
- (b) **Registration NO.** : **IBM/16826**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JAISALMER
Village : BHIYASAR
Taluka : FATEHGARH
Post office :
Pin Code :
FAX No. :
E-mail : JBMINESINDAWAR@GMAIL.COM
Phone : 9694292950, 9667213342
- (f) Police Station : Fatehgarh
- (g) First opening date : 08-APR-14
- (h) Weekly day of rest :
2. Address for : village- Indawar 341410
correspondance : Dist Nagaur
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 : J. B. MINES & CHEMICALS
NAGOUR RAJASTHAN
Phone:
FAX :

Owner : J B MINES & CHEMICAL
POST- INDAWAR TEH- MERTA
NAGOUR RAJASTHAN
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960
Plan/Scheme of Mining

08-APR-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No back log of previous years.	During the year 2014-15 one trial pit has been taken and siliceous earth was encountered. During the year 2015-16 the Mine was temporarily closed . Reopened in March 2017.	
1b	Exploration over lease area for geological axis 1 or 2	One trial pit proposed.	One trial pit was dug in 2014-15, and mine was temporarily closed in 2015-16, hence further another trial pit was not undertaken.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed from out side	Himself by lessee, expenditure record not maintained.	
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	Reserves estimated in mining plan was 209790tonnes and Balance reserves as on 1/4/2019 will be 136032tonnes	As on 1/4/2017 the reserves available is 209290tonnes.	Mine was temporarily closed since 1/4/2015 upto March 2017
1f	General remarks of inspecting officers on geology, exploration etc		The reserves estimated in mining plan will be sufficient for next five year , however trial pits are also proposed for virgin area to established G1 nad G2 level reserves.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Near boundary pillar A	As proposed.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil and Ob proposed.	As per proposal.
2c	Stripping ratio or ore to OB ratio	1:1.32	Nil for 2015-16 as no excavation during 2015-16.
2d	Quantity of topsoil generation in m3	5500tonnes	Nil during 2015-16 as there was no excavation during the year.
2e	Quantity of overburden generation in m3	5500tonnes.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Pit developed during the previous year ie 2014-15 was as per proposal. During the year 2015-16 no excavation is reported.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	10302 tonnes.	Nil, the mine was temporarily closed.	
3c	Recovery of sailable/usable mineral from ROM production	90%	Lessee reported that recovery was about 90% when mine was running in 2014-15	
3d	Quantity of mineral reject generation	1030tonnes.	Nil, the mine was temporarily closed.	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	Not recorded.	
3f	Quantity of sub grade mineral generation.	Nil	NIL	
3g	Grade of sub grade mineral generation	Not specified/ 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	Not proposed.	Not applicable.	
3k	Provision of mining machineries in mineral benches	One JCB for excavation and loading.	Not seen during the field visit as the mine was temporarily closed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	benche height is 2mt in soil & OB, 4mts in mineral.	Suitable for present mining method.	
3m	Total area covered under excavation/pits	0.2hact	0.18hact	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.32	Not applicable as the mine was temporarily closed during 2015-16 and upto Feb 2017.	
3o	Total area put in use under different heads at the end of year	Pit excavation= 0.2hact Dumps = not specified yearly	Pit excavation= 0.18hact Dumps= about .12hact.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15= 8078 tonnes 2015-16=9072 tonnes	2014-15= 500tonnes 2015-16= nil	The mine was granted on 18/9/2014
3q	General remarks of inspecting officers on method of mining etc.		Mine was temporarily closed wef 1/4/2015 and upto feb 2017. Reopened in March 2017. Benches in OB and soil is observed as per proposal.	

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping is proposed	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	On boundary line C_B, near pillar C	As per proposal.	
4c	Number of dumps within lease area and outside of lease area	One Waste dump with in lease area	As per proposal.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed with in Lease area out side the UPL.	Done.	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Not proposed	Not applicable	
4g	Number of dumps established.	Not proposed.	Not done	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified.	Not done.	
4i	Length of Retaining wall or garland drain all along dumps	Not specified.	Not applicable.	
4j	Number of settling ponds	Not proposed.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management		Seperate stacks of top soil and waste are observed with in lease area.	

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.	Not proposed.	The mine was first started wef 18/9/2014 and No area is fully mature for backfilling.	

5b	Area under backfilling of mined out area	Not proposed	The mine was first started wef 18/9/2014 and No area is fully mature for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to stack seperately for furure use in backfilling and planatation.	As proposed.
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Not done.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The mine was first started wef 18/9/2014 and No area is fully mature for backfilling and reclamation..

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 the year 2015-16 not submitted.	The mine was non working during the period 2015-16 till feb 2017.	
6b	Area available for rehabilitation (ha) .	Not specified.	Not amtured for rehabilitation.	
6c	afforestation done (ha).	50sapling	During the year 2015-16 not done as the mine was closed during the year.	
6d	No. of saplings planted during the year	Not specified.	During the year 2015-16 plantation not done as the mine was closed during the year.	
6e	Cumulative no .of plants	100 plants	about 35 plant has been observed.	
6f	Any other method of rehabilitation	Not specified	Not applicable	The mine was first started during 2014 only
6g	Cost incurred on watch and care during the year	Not specified.	No record available.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed for 2015-16	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed.	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 proposed.	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	By plantation.	35 trees have been observed. Plantation records are not available.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not specified.	About 0.1 hact.
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 mine was first opened in 2014. During the year 2015-16 and upto Feb2017 it was non working as reported. Hence not enough work towards PMCP have been proposed and undertaken.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified in mining plan	Not done. Lessee reported that whole ROM is being despatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not specified	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not specified.	Not applicable.	
7d	Any beneficiation process at mines	Not proposed.	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The minme was discontinued in 2015-16, however, lessee reported that whole ROM material is being saled out without any sorting.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal of Top soil has been proposed.	Seperater stacking of top soil observed during the field visit.	
8b	Concurrent use or storage of topsoil	Seperate stacking of top soil proposed.	As per proposal	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump for OB/Waste is propsed.	Seperate Dump of OB/Waste and top soil has been observed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed in this mining plan for 2015-16	Not applicable.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50sapling	Not done as the mine working was discontinued during the whole year 2015-16
8g	Survival rate	Not specified.	Not applicable.
8h	Water sprinkling on roads to control airborne dust	Not specified.	Not observed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		During the year 2015-16 and up to Feb 2017 the mine was non working. However earlier excavated top soil and waste are dumped seperately .

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual returns for the year 2015-16 not submitted.	Not applicable	Violation of MCDR 2017 has been pointed out.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual returns for the year 2015-16 not recieved	Not applicable	Mine was also not working during the year 2015-16
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual returns for the year 2015-16 not recieved	Not applicable	
9d	Scrutiny of Annual return on afforestation	Annual returns for the year 2015-16 not recieved	not applicable	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual returns for the year 2015-16 not recieved	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual returns for the year 2015-16 not recieved	Not applicable	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual returns for the year 2015-16 not recieved	Not applicable	
9h	Scrutiny of Annual return on fixed assets	Annual returns for the year 2015-16 not recieved	Not applicable	
9k	Scrutiny of Annual return on mining machineries	Annual returns for the year 2015-16 not recieved	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