

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-30/SE-16

Mine code : 97RAJ14021

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Yogesh Vyas, Brother of Late Sh. Avinash Vyas
Official with
Designation
- (iv) Date of Inspection : 27-FEB-20
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHIYASAR(475/13)**
- (b) **Registration NO.** : **IBM/17832/2014**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : Bhiyansar
- Taluka : Fatehgarh
- Post office : Fatehgarh
- Pin Code : 345001
- FAX No. :
- E-mail : avinashvyas27@gmail.com
- Phone : 9414141200
- (f) Police Station : Fatehgarh
- (g) First opening date : 09-JAN-17
- (h) Weekly day of rest : SUN
2. Address for : S/O Sh Ramesh Chandra Vyas,
correspondance B- 9, Shastri Nagar,
Jodhpur
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 : AVINASH VYAS
R/O- B-9 SHASTRI NAGAR
JODHPUR JODHPUR RAJASTHAN
Phone:9414171997
FAX :

Owner : Avinash Vyas
B- 9, Shastri Nagar,
Jodhpur JODHPUR RAJASTHAN
Phone:
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	A total of nine prospecting pits of size 3m X 3m X 6m were proposed for the First year of the plan (i, e, the year 2017-18.	NO proposed exploration as proposed has been carried out	It was due to sad demise of lessee as reported as well letters from state govt, agencies, as placed in the mine file.
1b	Exploration over lease area for geological axis 1 or 2	Entire area in G- 1 level proposed to be explored.	Entire area in G- 1 level proposed Could not been taken up.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself, Expenses not estimated.	No exploration carried out. so far as against its proposals.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire lease are of M L No 475/2013 minus 0.0001 ha	Entire lease are of M L No 475/2013 minus 0.0001 ha	
1e	Balance reserve as on 01/04/20	12123 T as per approved mining plan,	12123 T as per approved mining plan,	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The proposed exploration has not been carried out. Hence violation of rule 11 (1) is proposed to be issued.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Nearly half way of Boundary line CD	Being done as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench in O/B & in mineral Proposed.	Yes separate bench in O/B (which is Bentonite the minor mineral. & in mineral Provided)	The grade of minor mineral should be assessed & included in lease if found suitable for mineral conservation.

2c	Stripping ratio or ore to OB ratio	1 : 2.678	Not reported
2d	Quantity of topsoil generation in m3	There is no usable top soil, 1289 T waste generated.	548.232 T waste generated
2e	Quantity of overburden generation in m3	1289 T waste only	548.232 T Waste only
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development of pit is as proposed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit Working proposed	Single Pit Working made.	
3b	Quantity of ROM mineral production proposed	4511 T during 2018-19.	2741.160 T	
3c	Recovery of sailable/usable mineral from ROM production	70 % of ROM	About 70 % of ROM	
3d	Quantity of mineral reject generation	20 % waste	20 % waste	
3e	Grade of mineral rejects generation and threshold value declared.	Not given in Approved mining plan.	Not applicable	
3f	Quantity of sub grade mineral generation.	451.1 T	Approx 274.1 T	
3g	Grade of sub grade mineral generation	Not Reported in AMP	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.	No Proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	No Drilling Blasting Proposed	Not applicable
3k	Provision of mining machineries in mineral benches	Water tanker	Being used when mine is in operation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 2m to 3m bench height proposed in mineral & in Waste proposed.	Yes being done
3m	Total area covered under excavation/pits	0.075 ha	Approximately same as reported
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.678	Not Reported
3o	Total area put in use under different heads at the end of year	0.115 ha	0.116 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 4080.5 T, 2018-19 - 4511 T	2017-18- Nil, 2018-19 - 2741.160T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining choosed as opencast manual method suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No useable top soil found, O/B Waste dumping proposed separately.	Waste (Minor mineral the Bentonite) Dumped near pit.	

4b	Location of topsoil, OB and mineral reject dumps	Waste proposed to be dumped near Boundary Pillar 'A' in nearly plain area.	Waste (Minor mineral the Bentonite) Dumped near pit.
4c	Number of dumps within lease area and outside of lease area	One within lease	Single within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL
4e	Number of active and alive dumps.	Single	Single
4f	Number of dead dumps.	None	None
4g	Number of dumps established.	No proposal	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	Only Garland drain proposed.	Provided.
4i	Length of Retaining wall or garland drain all along dumps	79 m	Provided.
4j	Number of settling ponds	No Proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The waste is minor mineral bentonite which has been stacked near pit.

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	Full extraction	
5b	Area under backfilling of mined out area	No Proposal	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Not applicable
5d	Total area fully reclaimed and rehabilitated	No Proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No area become matured 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).	Yes As per rule	Not Submitted.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	25 no of plants proposed to be planted each year	No plant survived due to high saline nature of O/B waste.	
6d	No. of saplings planted during the year	25 within lease	10 Kikar trees survived.	
6e	Cumulative no .of plants	No information given in approved mining plan.	Not reported	
6f	Any other method of rehabilitation	No Proposal	Not applicable	
6g	Cost incurred on watch and care during the year	No Proposal	Not applicable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Not applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	Carried out regularly as per consent condition of SPCB.	Being Done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	NO matured area is available for backfilling & reclamation. The O/B is minor mineral bentonite.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatched 2080.530 out of production of 2741.160	2080.530 out of production of 2741.160	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Single grade	Single grade	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no usable top soil due to salinity	No top soil	

8b	Concurrent use or storage of topsoil	Not applicable	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed for Waste, Subgrade & Mineral	Separate dumps provided for Waste, Subgrade & Mineral
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	25 no of trees to be planted each year over an area of 0.225 ha	The survival rate achieved is 30% as mine worked intermittently.
8g	Survival rate	30 %	30 %
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, through water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the mine was satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Not applicable	M.R Submitted upto November 2019, Nil production reported since November 2018 to till date. A.R. Submitted for 2018-19
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Except Manager, no other technical person like mining engineer or the geologist had been employed	Found O K
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use given for various activities.	Found O K
9d	Scrutiny of Annual return on afforestation	25 Number planted	Survival 30 %, due to intermittent workings.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	250 T reject generated, Grade not reported.	Dumped at pit itself being minor mineral i.e. Bentonite.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock 0.00, Production raised 2741.160 T, Dispatched 2080.53 T & closing balance 660.630 T	Found O K
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price is Rs. 650/- per tone where as cost of production stated as Rs. 512.00	There is sufficient margin of profit.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets stated as Nil.	It can not be Nil.
9k	Scrutiny of Annual return on mining machineries	No Mining machinery deployed in the Mine	Found O. K.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(Sharma H.C.)

Indian Bureau of Mines