

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-25/SE-11

Mine code : 97RAJ14004

- (i) Name of the Inspecting : **P019**) **Parkash Chetan**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Parmeshwar 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(457/12)**
- (b) **Registration NO.** : **IBM/17329**
- (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 : FATEHGARH
- Pin Code : 345001
- FAX No. :
- E-mail : DEEPSUNDRI@YAHOO.COM
- Phone : 9413306995
- (f) Police Station : Fatehgarh
- (g) First opening date : 01-JAN-15
- (h) Weekly day of rest :
2. Address for : S/o SAhri Khub chand Khatri
correspondance Res- Shashtri Nagar
Barmer 344001
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 : PARMESHWAR KHATRI S/O KHOOBCHAND KHATRI
SHASTRI NAGAR, BARMER
(RAJ.) PIN COAD- 344001
JAISALMER RAJASTHAN
Phone:09413306995
FAX :

Owner : PARMESHWAR KHATRI
Shastri Nagar, Mandi Road
Lokopada BARMER RAJASTHAN
Phone: 9414294745
FAX : Nil

6. Date of approval of Mining : Fresh under rule 22 MCR1960 10-JUN-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 | One trial Pit. | So far two trial /exploratory pits. | Adequate reserves for next 5 years have already been established. |
| 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 | No out side agency involved, lessee himself | As per proposal. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not applicable at this stage | Not applicable | The mine was first opening in 2015 |
| 1e | Balance reserve as on 01/04/20 | Balance reserves as on 1/4/2020 will be 2310 tonnes. | Available balance reserves as on 1/4/2016 is 55582 tonnes. | Mine was granted in 2014 |
| 1f | General remarks of inspecting officers on geology, exploration etc | | The proposed exploration have been carried and reserves for next five year has already established. | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|--|---|--|
| 2a | Location of development w.r.t.lease area | In south west portion of lease area. | At proposed location. | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Seperate benches in Top soil, OB and mineral is propped. | Seperate bench in Top soil and in mineral formed. | |
| 2c | Stripping ratio or ore to OB ratio | 1:1.10 | 1:1.12 | |
| 2d | Quantity of topsoil generation in m3 | 13785 Cu.M | About 13000Cu. M | Top soil is the Over burden, as the siliceous earth is overlain by Soil. |

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| 2e | Quantity of overburden generation in m3 | As above | As above. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The pit development is being in a systematic manner. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---------|
| 3a | Number of pit proposed for production | Singl Pit | Single Pit | |
| 3b | Quantity of ROM mineral production proposed | 12510Tonnes. | 9874 tonnes | |
| 3c | Recovery of sailable/usable mineral from ROM production | 90% | 90% | |
| 3d | Quantity of mineral reject generation | 1251tonnes. | About 1000 tonnes as reported in AR 2015-16 | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not specified | No record kept. | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | No sub grade generation | Not applicable | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised with Backhoe & tractor trolley. | As per proposal. | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal | Not applicable. | |

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| 3j | Provision of drilling and blasting in mineral benches | No proposal for drilling and blasting | Nil | |
| 3k | Provision of mining machineries in mineral benches | Mechanised with Backhoe & tractor trolley. | As per proposal | |
| 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 is proposed is 3m. | Being done. | |
| 3m | Total area covered under excavation/pits | 110X60 m is proposed up to 2nd year. ie 2015-16 | 100X 55m is observed. | The mine was started on 1/1/2015, hence in Ist year mine was run for only three months |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:1.10 | 1:1.12 | |
| 3o | Total area put in use under different heads at the end of year | pit=2.27hact. waste dump=not specified Other not specified. | Pit 0.55hact Waste /reject dumping 0.3hact. | |
| 3p | Production of ROM mineral during the last five year period as applicable | 2014-15=11130tonnes 2015-16=12510tonnes | 2014-15=604tonnes 2015-16=9874tonnes. | The mine was started on 1/1/2015, hence in Ist year mine was run for only three months |
| 3q | General remarks of inspecting officers on method of mining etc. | | This is new mine development is 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 duming is proposed up to 2nd year after simultaneous backfilling is proposed. | Soil is dumped seperately. at the time of field visit backfilling are also observed in excavated areas. | |

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| 4b | Location of topsoil, OB and mineral reject dumps | Near pillar D | As per proposal. | |
| 4c | Number of dumps within lease area and outside of lease area | Single dump with in lease area | As proposed. | |
| 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. | One | One | |
| 4f | Number of dead dumps. | Nil | Nil | |
| 4g | Number of dumps established. | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Not specified | Not prepared. | After 2nd year the OB will be used in simultaneously backfilling than no need of waste dump and retaining wall. |
| 4i | Length of Retaining wall or garland drain all along dumps | Not specified | Not applicable. | |
| 4j | Number of settling ponds | None | Not applicable | |
| 4k | Specific comments of inspecting officer on waste dump management | | The general housekeeping of dump is satisfactory. | |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---------------------------|--|---------|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | Not proposed for 2015-16. | The backfilling has been started in 2016-17. The mineral had been fully extracted before backfilling in that area. | |
| 5b | Area under backfilling of mined out area | Not proposed for 2015-16 | However the backfilling is being started and 0.01hact is backfilled. | |

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| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | For backfilling and plantation. | For backfilling only at present. | Plantation will be started after leveled the backfilled area, as reported by lessee. |
| 5d | Total area fully reclaimed and rehabilitated | Not specified. | Only 0.01hact area is backfilled | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | This newly opened mine not much area mature for backfilling, however backfilling started by lessee in current year. | |

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). | Due for 2015-16 | Not submitted. | Violation of rule 26(2) of MCDR 2017 is pointed out to lessee |
| 6b | Area available for rehabilitation (ha) . | .015hact. | .01hact | |
| 6c | afforestation done (ha). | 0.01hact | 0.01hact | |
| 6d | No. of saplings planted during the year | 50sapling | 30sapling | |
| 6e | Cumulative no .of plants | 100 plants | 41 plants | |
| 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 exact area for second year. proposal of backfilling will be after 2nd year | Backfilling observed at the time of inspection and about .01 hact area is backfilled | |

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| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Not specified for 2015-16 | Not recorded. | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | Not specified | Not done on backfilled area | |
| 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 | Not specified for 2015-16 | Nil | |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | By plantation | 0.01hact. | |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | Not proposed | Not applicable. | This is new mine started from 1/1/2015 |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Not proposed | Not applicable. | Mining on small scale using only JCB/Backhoe |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Annual reprot on PMCP not submitted. | This is new mine started on 1/1/2015 and backfilling started on excavated areas. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---------------------------|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | | | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual | Manual | |
| 7c | Different grade of mineral sorted out at mines. | Only one grade and reject | Only reject is sorted out. | |
| 7d | Any beneficiation process at mines | Not proposed. | Not applicable | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | No threat to mineral conservation at this early stage of mining. | |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------------------|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Seperate removal of Soil | Seperate removal of Soil. Here soil is the overburden. No seperate OB is there. | |
| 8b | Concurrent use or storage of topsoil | For backfilling after 2nd year. | Backfilling is being done simultaneously. | |

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| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Seperate dump for OB and Reject. | As per proposal | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | For backfilling. | Backfilling is being done simultaneously. | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Backfilling is proposed simultaneously after 2nd year. | As per proposal. | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Plantation of 50trees per proposed. | So far about 41 trees | |
| 8g | Survival rate | Not specified | 40% | Due to scaricity of water in thar desert 40% is satisfactory. |
| 8h | Water sprinkling on roads to control airborne dust | Not proposed in Mining plan | Not done | Because Siliceous Earth will be sold only after completely dried, hece sprinkling odf water may adverse the sale. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | No threat to aeshetic beauty of the area. | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 9a | Status of submission of Monthly and Annual returns | Annual returns for the year 2015-16 and Monthly returns upto Feb 2017. | Both are submitted in time. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | No mining engineer name is mentioned. | However at present Sh Rajesh Nawal, BE(Mining) act as a mining engineer and also 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 | Details given. | Found in order |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | 1000 tonnes reject has been shown with Grade "D" | Found in order. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Details given propoerly. | Found in order. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex mine price given is Rs 210/- tonnes. | Found satisfactory. |
| 9h | Scrutiny of Annual return on fixed assets | Details given as NIL. | There is no infrastructure have been developed at mine yet the mine was started on 1/1/2015 only. There is no fixed assets at the mine, Machinery is also on hire basis as reported by lessee., |
| 9k | Scrutiny of Annual return on mining machineries | One Bach hoe is 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