

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** Raj./Blw.-51/Garnet-15

**Mine code :** 26RAJ06019

- (i) Name of the Inspecting : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. V. K. Singh, Represntative of lessee.  
Official with  
Designation
- (iv) Date of Inspection : 17-JAN-20
- (v) Prev.inspection date : 26-APR-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KOCHARIYA 432/07**
- (b) **Registration NO.** : **IBM/15191/2013**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : BHILWARA
- Village : KOCHARIYA
- Taluka : BHILWARA
- Post office : BHILWARA
- Pin Code : 311001
- FAX No. :
- E-mail : neetukanwarv77@gmail.com
- Phone : 9414573577
- (f) Police Station : Bhilwara
- (g) First opening date : 27-NOV-13
- (h) Weekly day of rest : SUN
2. Address for : Village- Basada  
correspondance Post Gundali  
Teh and district Bhilwara
3. (a) Lease Number : RAJ5324
- (b) Lease area : 4
- (c) Period of lease : 50
- (d) Date of Expiry : 26-NOV-63
4. Mineral worked : QUARTZ Associated  
GARNET Main

## 5. Name and Address of the

Lessee : UMADSINGH RANAWAT  
 Vill- Basda, Post.- Gundali  
 Teh. & Dist.- Bhilwara  
 BHILWARA RAJASTHAN  
 Phone:  
 FAX :

Owner : UMADSINGH RANAWAT  
 Vill- Basda, Post.- Gundali  
 Teh. & Dist.- Bhilwara  
 BHILWARA RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : Mukesh kumar Khatik, Full Time  
 Qualification : B E (Mining)  
 Appointment/ : 01-NOV-18  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29-JUL-13
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	26-SEP-16
		MP modif under 17(3) MCR 2016	04-JUN-18

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 B/H during 2018-19 and 8 B/H proposed to be carried out during 2019-20.	No proposed exploration for 2018-19 & 2019-20 carried out so far in the lease area	
1b	Exploration over lease area for geological axis 1 or 2	In year 2018-19 an area of 0.43 ha & in 2019-20 an area of 0.46 hectes proposed to be covered under G1 exploration.	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself, expenditure not estimated.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.89 hectes proposed to be covered under G1 exploration up to 2019-20.	0.89 hectes required to be covered under G1 level exploration.	
1e	Balance reserve as on 01/04/20	30362 T in proved 111 category as on 4/6/2018.	28132 T in proved 111 category as on 1/4/2019.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	No proposed exploration for 2018-19 & 2019-20 carried out so far in the lease area.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NW side of lease area.	As proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench in O/B waste & mineral proposed.	Separate bench in O/B waste & mineral provided.	

2c	Stripping ratio or ore to OB ratio	1 : 7.99	1 : 7.9
2d	Quantity of topsoil generation in m3	No top soil generation proposed.	Not applicable
2e	Quantity of overburden generation in m3	27105 T	27100 T
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 per proposals.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit for garnet & another pit for quartz.	As proposed.	
3b	Quantity of ROM mineral production proposed	6786 T garnet & 1030 T quartz	About 2230 T of garnet.	
3c	Recovery of sailable/usable mineral from ROM production	20% for garnet & 80 % for quartz	20% for garnet & 80 % for quartz	
3d	Quantity of mineral reject generation	Total waste - 54506 T	Total waste- 27100 T from garnet Pit.	
3e	Grade of mineral rejects generation and threshold value declared.	No specified proposal	Not applicable	
3f	Quantity of sub grade mineral generation.	No specified proposal	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	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	Drilling by 32 mm dia Jack hammer & Blasting by ANFO & slurry explosive for Winning Quartz, No drilling in garnetiferrous mica schist.	Being done as proposed.
3k	Provision of mining machineries in mineral benches	Tractor trolley / 10 T dumper & loading by JCB.	Being done as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, bench height of 3 mts in mineral.	Yes, bench height of 3 m is suitable to the method of mining.
3m	Total area covered under excavation/pits	0.6 hects.	About 0.48hect.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 7.99	1 : 7.9
3o	Total area put in use under different heads at the end of year	0.91 ha	0.87 ha
3p	Production of ROM mineral during the last five year period as applicable	2013-14-26T, 2014-15- 114 T, 2015-16- 234 T, 2016- 17- 2808 T, 2017-18- 2925 T, 2018-19- 6786 T	2013-14- Nil, 2014-15- Nil, 2015-16- 233 T, 2016-17-40 T, 2017-18- 2775 T, 2018-19- 2230 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining is opencast manual method.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, separate dumping of O/B waste proposed.	Yes, separate dumping of O/B waste carried out.	
4b	Location of topsoil, OB and mineral reject dumps	Within lease area near boundary line G H & H I.	Being done as proposed.	
4c	Number of dumps within lease area and outside of lease area	One within lease	One within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	None	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall along lee ward side proposed.	The rejects used in road making, as such it is not applicable.	
4i	Length of Retaining wall or garland drain all along dumps	100 mts retaining wall & 110m garland drain proposed.	The rejects used in road making, as such it is not applicable.	
4j	Number of settling ponds	None	None	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding dumping of O/B Waste & Rejects.	

## 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.	No proposal	No area become matured for backfilling.	

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)	Not applicable as no top soil generated	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.

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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).	0.02 ha	0.02 ha	
6d	No. of saplings planted during the year	50 nos	35 nos.	
6e	Cumulative no .of plants	250 nos	About 140 as on date	Very Low survival rate of plants due to grazing by cattle of encroachers.
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Rs 2500/-	Not reported	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not applicable	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	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	NIL	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Not applicable



6p	Compliance of environmental monitoring (core zone and buffer zone)	As per EC & CTO conditions	As per EC & CTO conditions
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual report of work carried out for reclamation & rehabilitation as per progressive mine closure plan required to be submitted before 1 July 2019 has not been submitted to the Regional Controller of Mines.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	6786 T	2230 T	
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 egarding mineral conservation.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not applicable	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	No Top soil generated.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump of O/B waste/reject proposed.	Being done as proposed.	
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)	50 nos of trees proposed to be planted per year	35 planted during 2018-19.	year
8g	Survival rate	70 %	60 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around mine was satisfactory.	

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Compliance of Rule 45:

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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 up to A.R. Submitted up to 2017-18 & A.R. for the year 2018-19 has not been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	A.R. for the year 2018-19 not submitted.	Not applicable
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	A.R. for the year 2018-19 not submitted.	Not applicable
9d	Scrutiny of Annual return on afforestation	A.R. for the year 2018-19 not submitted.	Not applicable
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	A.R. for the year 2018-19 not submitted.	Not applicable
9f	Scrutiny of Annual return on ROM stock and/or graded ore	A.R. for the year 2018-19 not submitted.	Not applicable
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	A.R. for the year 2018-19 not submitted.	Not applicable
9h	Scrutiny of Annual return on fixed assets	A.R. for the year 2018-19 not submitted.	Not applicable
9k	Scrutiny of Annual return on mining machineries	A.R. for the year 2018-19 not submitted.	Not applicable

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**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