

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/RJS/GARNET-001

**Mine code :** 26RAJ27001

- (i) Name of the Inspecting : **G021** ) **D R GURJAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Nitesh Agrawal, Partner of Firm  
Official with  
Designation
- (iv) Date of Inspection : 18-APR-24
- (v) Prev.inspection date : 25-MAY-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MAD(626/2011)**
- (b) **Registration NO.** : **IBM/17121/2013**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : RAJSAMAND  
Village : Mad  
Taluka : Deogarh  
Post office :  
Pin Code :  
FAX No. : 9602661000  
E-mail : shreemamadev.123@gmail.com  
Phone : 9602661000
- (f) Police Station : Devgarh
- (g) First opening date : 17-JAN-14
- (h) Weekly day of rest : SUN
2. Address for : H.No. 4-A-2, R. C. Vyas Colony,  
correspondance Bhilwara- 311001 Rajasthan
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : GARNET Main

## 5. Name and Address of the

Lessee : MAMADEV MINES & MINERALS  
RAJSAMAND RAJASTHAN  
Phone:  
FAX :

Owner : Nitesh Agrawal  
S/O Sh. Ram Prakash  
Agrawal, H No 4-A-2, R. C.  
Vyas Colony, Bhilwara-  
311001 BHILWARA RAJASTHAN  
Phone: 9414148401  
FAX :

## Mining Engineer

Name : SAIYAD MOHAMMAD AMIN ANWARSHA, Full Time  
Qualification : BE Mining  
Appointment/ : 10-MAR-23  
Termination date

## Geologist

Name : KAMAL KANT VERMA, Part Time  
Qualification : MSC GEOLGY  
Appointment/ : 16-APR-24  
Termination date

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	Exploration was proposed by way of 07 bore holes having 145m was proposed during the year 2021-22.	No exploration drilling has been carried out till inspection date.	(1) Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024. (2) Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024 for not carried out exploration drilling as per approved proposals.
1b	Exploration over lease area for geological axis 1 or 2	As per approved review of mining plan, exploration was proposed by way of 07 bore holes (145m) drilling covering 2.05 hect. mineralised area to G1 level.	No exploratory drilling has been carried out till inspection date.	(1) Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024. (2) Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024 for not carried out exploration drilling as per approved proposals.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal given in this regard.	None.	Nil

1d	Balance area to be explored to bring Geological axis in 1 or 2	As per last approved RMP(approved on 29.09.2020), entire mineralised area i.e. 2.05 hect proposed to upgrade G1 level.	None	No exploratory drilling has been carried out till inspection date. Current inspection has been carried out for RMP, hence proposal of bore holes has been incorporated in recent approved RMP as per norms of MEMC Rules 2015.
1e	Balance reserve as on 01/04/20	No such proposal given.	As per recent approved RMP(approved on 04.06.2024), the position of reserve of Garnet(abrasive) as on 01.04.2024: 111: 176512T, 122: 29001T	Nil
1f	General remarks of inspecting officers on geology, exploration etc			(1)Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024. (2) Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024 for not carried out exploration drilling as per approved proposals.

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Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the year 2023-24, mine development was proposed in Two pits for Garnet(Abrasiv e) towards Northern side of lease area & One Pit towards South Central Part of the lease area for Quartz feldspar mining.	Two samll pits of Garnet(Abrsive) was observed on towards Northern side of lease area and no quartz & feldspar pit was observed.	Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil benches proposed. Benches of OB & Mineral was proposed.	Benches in OB & mineral was observed.	Nil
2c	Stripping ratio or ore to OB ratio	2023-24: 1:1.23	2023-24: 1:1.22	Nil
2d	Quantity of topsoil generation in m3	No top soil generation proposed in RY 2023-24.	No top soil generated during the year 2023-24.	Nil
2e	Quantity of overburden generation in m3	2023-24: 8415 cum	2023-24: 1280 cum	(1)Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			(1)Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024. Mine was developed by way of two small Garnet(Abrsive) pits.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	02	Nil
3b	Quantity of ROM mineral production proposed	2023-24: Garnet (Abrasive)- 53550T	2023-24: Garnet (Abrasive)- 2330T	(1) Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024. Mine was developed by way of two small Garnet (Abrasive) pits.
3c	Recovery of sailable/usable mineral from ROM production	45% recovery proposed from ROM	Approximately 45%	Nil
3d	Quantity of mineral reject generation	2023-24: 8415 cum	2023-24: 1280 cum	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No threshold value declared in respect of Garnet (Abrasive) mineral by IBM. As per proposal, mineral reject is waste.	As per proposal.	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No subgrade proposal	No subgrade generated hence not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal in RY 2023-24.	None during the RY 2023-24.	Nil
3j	Provision of drilling and blasting in mineral benches	Provision of drilling & blasting was given.	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Dumper excavator combination.	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	03 m bench height was proposed.	As per proposal	Nil
3m	Total area covered under excavation/pits	No specific yearwise proposal given. however as per earlier approved RMP, total area proposed under excavation/Pits-1.76 hect. at the end of year 2023-24.	At the end of year 2023-24, total 0.45 ha area used for mining pits.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 1:1.23	2023-24: 1:1.22	Nil
3o	Total area put in use under different heads at the end of year	No specific yearwise proposal given. however as per earlier approved RMP, total area proposed under different heads -2.39 hect. at the end of year 2023-24.	At the end of year 2023-24, total 0.51 ha area used under different heads.	Nil

3p	Production of ROM mineral during the last five year period as applicable	20219-20: No proposal 2020-21: 50295T. 2021-22: 51030T, 2022-23: 53025T, 2023-24: 53550T	20219-20: No proposal 2020-21: Nil 2021-22: Nil 2022-23: Nil 2023-24: 2330T	Mining operation were temporary discontinued from 01.04.2017 due to EC & CTO. As per opening notice in Form C, mine operation was commenced on 06.03.2024.
3q	General remarks of inspecting officers on method of mining etc.	Opencast mining method was proposed.	Opencast mining method is being adopted.	Opencast mining method is best suited 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 top soil proposal. Waste dumping was proposed.	No top soil & waste dumping was observed.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top soil-No proposal OB/Waste- Proposal given in extreme south side along the boundary pillar-ED.	Top Soil- Not generated. Waste Dump- Not observed.	Mine was not working since many years due to EC, recently mine was reopened on 06.03.2024. Small quantity of waste generated in RY 2023-24 is being utilised for haul road maintainance.
4c	Number of dumps within lease area and outside of lease area	01 Waste dump proposed within lease area.	No waste dump was observed during the inspection.	Mine was not working since many years due to EC, recently mine was reopened on 06.03.2024. Small quantity of waste generated in RY 2023-24 is being utilised for haul road maintainance.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL.	No waste dump observed.	Nil
4e	Number of active and alive dumps.	01	Nil	Nil
4f	Number of dead dumps.	No proposal	N/A	Nil



4g	Number of dumps established.	No proposal	Not applicable	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal given	No waste dump observed, hence not required.	Nil
4i	Length of Retaining wall or garland drain all along dumps	RY 2023-24: 50m retaining wall proposed.	Not required as no waste dumping has been carried out.	Mine was not working since many years due to EC, recently mine was reopened on 06.03.2024. Small quantity of waste generated in RY 2023-24 is being utilised for haul road maintainance.
4j	Number of settling ponds	No proposal	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump management as mine was not working since many years due to EC, recently mine was reopened on 06.03.2024. Small quantity of waste generated in RY 2023-24 is being utilised for haul road maintainance.

#### 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 of backfilling was given in RY 2023-24.	None during the RY 2023-243.	Area not matured backfilling. Mine was not working since many years, just reopen during the month of Mrach 2024.
5b	Area under backfilling of mined out area	No proposal in RY 2023-24.	None during the RY 2023-24.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil proposal given.	No top soil generated.	Nil

5d	Total area fully reclaimed and rehabilitated	No such proposal given for RY 2023-24.	None during the year 2023-24.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured backfilling. Mine was not working since many years, just reopen during the month of March 2024. Mine is not matured for backfilling & reclamation.

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Progressive Mine Closure Plan:

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Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP should be submitted before 1st July for previous financial year.	PMCP report for the year 2023-24 submitted along with AR 2023-24.	Timely submission.
6b	Area available for rehabilitation (ha) .	No such proposal given.	N/A	Nil
6c	afforestation done (ha).	2023-24: 0.02 Hect.	2023-24: 0.02 Hect.	Nil
6d	No. of saplings planted during the year	2023-24: 50 nos.	2023-24: 20 nos.	50 nos. of sapling proposed during the year 2023-24 but only 20 nos. of sapling reported during this year, further no proper care & maintainance of plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024.
6e	Cumulative no .of plants	No such proposal given	20 nos.	Mine was not working for last many years, recently reopened in the month of March 2024.

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6f	Any other method of rehabilitation	No such proposal given.	Not applicable	Nil
6g	Cost incurred on watch and care during the year	Rs. 2500 plantation cost was proposed. No proposal of watch & care was given.	Rs. 2000 reported.	However no proper care & maintainance of plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal given for the RY 2023-24.	Not applicable.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal during the year 2023-24.	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	N/A	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	N/A	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Afforestation was proposed over an area 0.02 hect. in year 2023-24.	Plantation has been reported over an area 0.02 hect. in year 2023-24.	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Year 2023-24: 0.02 hect.	Year 2023-24: 0.02 hect.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring proposed	As per proposal	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			50 nos. of sapling proposed during the year 2023-24 but only 20 nos. of sapling reported during this year, further no proper care & maintainance of plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	After sorting abrasive garnet from ROM mineral, disptach of sorted mineral will be carried out.	As per proposal	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Nil

7c	Different grade of mineral sorted out at mines.	From ROM mineral, abrsive garnet sorting proposal given.	As per proposal	No different grade sorting from ROM, only abrasive garnet mineral sorted & dispatched. The recovery of abrasive garnet from ROM is approximately 45% reported.
7d	Any beneficiation process at mines .	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation. No beneficiation of mineral was observed.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil proposal given in the year 2023-24.	No top soil generated in year 2023-24.	Nil
8b	Concurrent use or storage of topsoil	No top soil generation proposal given, hence no proposal of use.	No top soil generated hence not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal of waste dumping was given.	Mine was not working since many years, recently reopened. No waste dump was observed.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	None during the year 2023-24.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the year 2023-24.	None during the year 2023-24.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2023-24, total 50 nos. sapling proposed.	During the year 2023-24 only 20 nos. of sapling plantation reported.	50 nos. of sapling proposed during the year 2023-24 but only 20 nos. of sapling reported during this year, further no proper care & maintainance of plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024.
8g	Survival rate	No proposal given in this regard.	80% reported.	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed.	Observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around mines area is satisfactory.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to June 2024. AR submitted for the year 2023-24.	Timely submission	The discrepancies observed in AR 2023-24, which were communicated to the lessee vide email dated 19.07.2024 to rectify within 30 days.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Detail of Mining Engineer given.	Mining Engineer & Geologist appointed before inspection. Form-H submitted for both the appointments.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern given in AR 2023-24.	Under land use pattern total 0.010 hect. area shown under head waste disposal whereas as in approved RMP(approved on 04.06.2024) no dump detail furnished.	Discrepancies in respect of land use pattern communicated to the lessee vide email dated 19.07.2024 to rectify within 30 days.
9d	Scrutiny of Annual return on afforestation	Details given in AR 2023-24.	Seems corrected.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reported in AR 2023-24.	Under item 4 of Part-V, the unit of waste generation & its disposal during the year is not correct.	Discrepancies in respect of waste/reject generation quantity unit has been communicated to the lessee vide email dated 19.07.2024 to rectify within 30 days.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening stock- Nil ROM Production- 2330T Closing Stock- 2330T	Under item 2 of part-VI, the ROM production as well as closing stock of ROM reported 2330 tonnes. Further grade wise production reported 1050 tonnes under item 3(ii) of part-VI. It is contradictory, needs to be checked & corrected.	Discrepancies in Part-VI of AR 2023-24 has been communicated to the lessee vide email dated 19.07.2024 to rectify within 30 days.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price- Rs. 3583.72 per ton Production Cost- 3168.31	In Part-VII, Cost of production per tonne is not matching with expenditure details furnished in Part-II, Part-IIA & Part-III.	In Part-VII, Cost of production per tonne is not matching with expenditure details furnished in Part-II, Part-IIA & Part-III, the same has been communicated to the lessee vide email dated 19.07.2024 to rectify within 30 days.

9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported Rs. 2182000 reported in AR 2023-24.	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Seems corrected	Nil

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**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
MCDR17	Rule 11(1)	19-JUL-24			

**Date :**

**(D R GURJAR)**

Indian Bureau of Mines