

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BLW-220/GT-13

Mine code : 26RAJ06016

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Anil Kumar Dasot, Partner of AKG Gem Garnet Mine
Official with
Designation
- (iv) Date of Inspection : 04-DEC-19
- (v) Prev.inspection date : 11-MAR-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KODUKOTA**
- (b) **Registration NO.** : **IBM/6648/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : BHILWARA
- Village : KODUKOTA
- Taluka : SUWANA
- Post office : KODUKOTA
- Pin Code : 311001
- FAX No. : 01482-251109
- E-mail : anildasot12@yahoo.com
- Phone : 01482-270057, 242845, 94141
- (f) Police Station : BHILWARA
- (g) First opening date : 21-MAY-01
- (h) Weekly day of rest : SUN
2. Address for : 5, SURANA BHAVAN,
correspondance SHASTRI NAGAR, BHILWARA
3. (a) Lease Number : RAJ1956
- (b) Lease area : 4.27
- (c) Period of lease : 20
- (d) Date of Expiry : 13-MAY-21
4. Mineral worked : GARNET Main

5. Name and Address of the

Lessee : AKD GEM GARNET MINES
 F-203
 NEAR MAHAPRAGYA CIRCLE,
 AZAD NAGAR, BHILWARA
 BHILWARA RAJASTHAN
 Phone:01482-242845,9414115557
 FAX :

Owner : AKD GEM GARNET MINES
 F-203
 N, NEAR MAHAPRAGYA CIRCLE,
 AZAD NAGAR BHILWARA
 BHILWARA RAJASTHAN
 Phone: 01482-242845(O)
 FAX :

Manager

Name : Mahaveer Das Bairagi
 Qualification : Forman's Certificate Holder
 Appointment/ : 01-DEC-19
 Termination date

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| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 09-JAN-01 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 28-JUL-06 |
| | | FMCP under 23C(1) | 29-JAN-08 |
| | | Modif.of approved Mining Plan | 16-AUG-10 |
| | | MP modif under MCR 1960 | 04-APR-16 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|---|
| 1a | Backlog of previous year | During the previous year 2018-19 no exploration was proposed. | No exploratory work has been carried out during the last year. | During the last Modified Mining Plan period in the year 2016 & 2017 total 05 trenches were proposed but only two exploratory trial pits were dug hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
| 1b | Exploration over lease area for geological axis 1 or 2 | During the previous year 2018-19 no exploration was proposed. | No exploratory work has been carried out during the last year. | During the last Modified Mining Plan period in the year 2016 & 2017 total 05 trenches were proposed but only two exploratory trial pits were dug hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | No such proposal given in the approved Scheme of Mining. | During the last Modified Mining Plan period Rs. 15000 has been spent in the exploratory pits. | Nil |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No such proposal given in the earlier approved Modified Mining Plan. | Only 2 exploratory trail pits were dug during the last modified mining plan period. | Current inspection has been carried out for Review of Mining Plan and proposal of exploratiobn for entire mineral potential area under G1 level have been incorporated during the year 2020-21 & 2021-22. |

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| 1e | Balance reserve as on 01/04/20 | Reserve as on 01.01.2020 111-ROM 753405 T (113011T Abrasive & Gem garnet 15% of ROM) 121/122-ROM 171132 T (25670 T Abrasive & Gem garnet 15% of ROM) | Reserve as on 01.01.2020 111-ROM 753405 T (113011T Abrasive & Gem garnet 15% of ROM) 121/122-ROM 171132 T (25670 T Abrasive & Gem garnet 15% of ROM) | As per approved Review of Mining Plan(Approved on 20.01.2020) |
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| 1f | General remarks of inspecting officers on geology, exploration etc | | During the last Modified Mining Plan period in the year 2016 & 2017 total 05 trenches were proposed but only two exploratory trial pits were dug hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
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Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---|
| 2a | Location of development w.r.t.lease area | Mine development was proposed in existing old pit along the boundary pillar AD. | Mine development has been carried out on proposed location, however bench height & width have not been maintained as per approved proposal. | Bench height & width have not been maintained as per approved proposal hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | Yes | However bench height & width have not been maintained as per approved proposal hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
| 2c | Stripping ratio or ore to OB ratio | 1:9 | 1:9.25 | Nil |

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| 2d | Quantity of topsoil generation in m3 | No top soil generation proposal during the last year. | No to soil generated during the last year. | Nil |
| 2e | Quantity of overburden generation in m3 | 2018-19 29820 T | 2018-19 27002 T | Nil |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Mine development has been carried out on proposed location, however bench height & width have not been maintained as per approved proposal hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 3a | Number of pit proposed for production | One | One | Nil |
| 3b | Quantity of ROM mineral production proposed | 2018-19: ROM- 33133 T | 2018-19: ROM- 29820 T & Production of Mineral- 2918T | Nil |
| 3c | Recovery of sailable/usable mineral from ROM production | 2018-19 3313T | 2018-19 2918T | Nil |
| 3d | Quantity of mineral reject generation | No proposal | Nil | Nil |
| 3e | Grade of mineral rejects generation and threshold value declared. | No proposal | Not applicable | Nil |
| 3f | Quantity of sub grade mineral generation. | No subgrade mineral generation proposal | No subgrade mineral generated during the last year. | Nil |
| 3g | Grade of sub grade mineral generation | No subgrade mineral generation proposal | No subgrade mineral generated hence not applicable. | Nil |

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| 3h | Manual / Mechanised method adopted for segregating from ROM | No proposal of segregation. | None | Nil |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No such proposal given | None | Nil |
| 3j | Provision of drilling and blasting in mineral benches | Drilling by Jack hammer & blasting was proposed. | As per proposal | Nil |
| 3k | Provision of mining machineries in mineral benches | Manual mining proposed & transportation by truck | As per proposal | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Bench height & width have not been maintained as per approved proposal hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. | Bench height & width have not been maintained as per approved proposal hence violation of Rule 11(1) of MCDR 2017 issued to the lessee. |
| 3m | Total area covered under excavation/pits | At the end of modified mining plan period i.e. 2019-20 area will be covered under pits- 1.05 Hect. | As per recently approved review of mining plan the current area under pit is 0.4161 hect. | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:9 | 1:9.25 | Nil |
| 3o | Total area put in use under different heads at the end of year | In the approved modified mining plan the total area put to use at the end of year 2019-20 under different heads will be 1.819 hect. | Currently total area put to use under different heads is 1.0361 | Nil |

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| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16: 19421 T 2016-17: 21079 T, 2017-18: 29470 T, 2018-19: 29820 T, 2019-20: 37463 T | 2015-16: 6525 T 2016-17: 13154 T, 2017-18: 31337.33 T, 2018-19: 27002 T, 2019-20: 4142 T(Up to Dec 2019) | Nil |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Method of mining is 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) | Proposal given for separate dumping of OB/IB | Separate dumping of OB/IB has been carried out. | Nil |
| 4b | Location of topsoil, OB and mineral reject dumps | Waste dump was proposed North Eastern Part of the lease area near boundary pillar C. | Waste dumping has been carried out North Eastern part of the lease area. | Nil |
| 4c | Number of dumps within lease area and outside of lease area | One | One | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside of UPL | Outside of UPL | Nil |
| 4e | Number of active and alive dumps. | 01 | 01 | Nil |
| 4f | Number of dead dumps. | Nil | NIL | Nil |
| 4g | Number of dumps established. | No proposal | Nil | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No specific proposal has been given in the approved modified mining plan for the year 2018-19. | Garland drain was observed. | Nil |

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| 4i | Length of Retaining wall or garland drain all along dumps | No specific proposal has been given in the approved modified mining plan for the year 2018-19. | No garland drain reported during the last year. | Nil |
| 4j | Number of settling ponds | No proposal | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | | | No issue was observed related to waste dump management. |

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 for the year 2018-19 | Nil | Area is not matured for backfilling. |
| 5b | Area under backfilling of mined out area | No proposal of backfilling was given for the year 2018-19 | None | Nil |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No top soil generation proposed during the year 2018-19 | No top soil generated during the last year. | Nil |
| 5d | Total area fully reclaimed and rehabilitated | No proposal given for the year 2018-19. | None | Nil |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Area is not fully matured for backfilling & reclamation. |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | PMCP report of every year should be submitted up to 1st July . | PMCP report for the year 2018-19 has not submitted by the lessee. | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 6b | Area available for rehabilitation (ha) . | 0.02 hect. | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 6c | afforestation done (ha). | .02 hect. | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 6d | No. of saplings planted during the year | 50 nos. | 20 nos. | Violation of rule 11(1) of MCDR 2017 issued to the lessee for less plantation from approved proposal. |
| 6e | Cumulative no .of plants | Not specified | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 6f | Any other method of rehabilitation | No proposal | None | Nil |
| 6g | Cost incurred on watch and care during the year | Rs. 2500 | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No such proposal given in the approved modified mining plan. | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |

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| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No backfilling proposal during the year 2018-19 | No backfilling has been carried out during the last year. | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | No proposal of afforestation on backfilled area. | None | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No such proposal given | Rain water was accumulated at the pit bottom. | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | No proposal given | None | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | 50 nos. (2018-19) | 20 nos. (2018-19) | Violation of rule 11(1) of MCDR 2017 issued to the lessee for less plantation from approved proposal. |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | 0.02 hect. by plantation | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 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) | Regular monitoring was proposed | Regular monitoring is being carried out. | Nil |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Usable mineral sorting from ROM excavation. | Usable mineral sorting from ROM excavation. | 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. | Abrasive granet sorted from ROM excavation. | Abrasive granet sorted from ROM excavation. | |
| 7d | Any beneficiation process at mines | No proposal | None | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | No issue was observed related to mineral coservation. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|-----------------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No top soil geneartion proposed during the last year | No top soil generated | Nil |
| 8b | Concurrent use or storage of topsoil | No top soil generation proposal given | Not generated. | Nil |

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| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumping of OB/IB proposed out. | Separate dumping of OB/IB has been carried out. | Nil |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No such proposal given for the last year | None | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No such proposal given for the year 2018-19 | None | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | During the year 2018-19 total 50 nos. plantation was proposed. | 20 nos. sapling was planted during the year 2018-19. | Violation of rule 11(1) of MCDR 2017 issued to the lessee for less plantation from approved proposal. |
| 8g | Survival rate | Not specified | Not reported | Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19. |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | As per proposal | Nil |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | Aesthetic beauty is good in and around mine area except land degraded by pit & waste dump. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 9a | Status of submission of Monthly and Annual returns | Monthly return submitted up to Dec 2019 Annual return 2018-19 not submitted. | Monthly return submitted up to Dec 2019 Annual return 2018-19 not submitted. | Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee for non submission of annual return for the year 2018-19. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9d | Scrutiny of Annual return on afforestation | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9h | Scrutiny of Annual return on fixed assets | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |
| 9k | Scrutiny of Annual return on mining machineries | Annual return for the year 2018-19 not submitted by the lessee. | Due to non submission of annual return 2018-19, Violation of rule 45(5)(C) of MCDR 2017 issued to the lessee. | |

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 |
| MCDR17 | Rule 11(1) | 31-DEC-19 | | | |
| MCDR17 | Rule 26(2) | 31-DEC-19 | | | |
| MCDR17 | Rule 45(5)(c) | 31-DEC-19 | | | |

Date :

(D R GURJAR)

Indian Bureau of Mines