

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-110

Mine code : 38MPR47024

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Kumar Shyamal Kishor, Mine Head, Shri Manoj Kuma
Official with
Designation
- (iv) Date of Inspection : 06-MAR-21
- (v) Prev.inspection date : 12-OCT-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMWANI KHURD (8.59) / (7.89)**
- (b) **Registration NO.** :
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : JAMWANI KHURD
Taluka : V.GARH
Post office : JAMWANI KHURD
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station :
- (g) First opening date : 01-JAN-83
- (h) Weekly day of rest : WED
2. Address for : SHRI MADAN LAL GROVER
correspondance : CIVIL LINES
KATNI (M.P.)
3. (a) Lease Number : MPR0229
(b) Lease area : 8.59
(c) Period of lease : 10
(d) Date of Expiry : 13-SEP-02
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

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|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 07-JUN-99 |
| Plan/Scheme of Mining | | Renewal under rule 24 MCR1960 | 11-NOV-08 |
| | | MP modif under MCR 1960 | 02-MAY-14 |
| | | Mining Scheme rule 12 MCDR1988 | 05-MAY-14 |
| | | MP modif under 17(3) MCR 2016 | 15-JAN-18 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-----------------------|--|---|
| 1a | Backlog of previous year | Nil | Nil | |
| 1b | Exploration over lease area for geological axis 1 or 2 | Nil | Nil | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NA | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | 3.87 ha in G2 level to be explored in G1 | |
| 1e | Balance reserve as on 01/04/20 | 3.4734 million tonnes | 3.4734 million tonnes | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | Litho units belonging to Rohtas Formation of Lower Vindhyan Group are exposed in the area consists of Limestone, Dolomite and Shale .It is a sedimentary deposit comes under bedded, Stratiform and Tabular deposit of irregular habit. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|------------------------|
| 2a | Location of development w.r.t.lease area | 2666500 N to 2666370 N & 469670 E to 469850 E | 2666500 N to 2666390 N & 469720 E to 469900 E | violation pointed out. |

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|----|---|--|---|------------------------|
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | it was proposed to maintain 5 benches (01 soil bench of height 1.5m ,01 OB shale bench of height 2m and 3 limestone benches of height 6.0m and width equal to and more than 6 m. | during inspection it was found that the width of the limestone benches in some area of northern part of the quarry was not maintained properly resulting in increased bench height in the between the grid coordinates 2666500 N to 2666480 N & 469870 E to 469880 E. | violation pointed out. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.17 | 1:0.16 | |
| 2d | Quantity of topsoil generation in m3 | 11583 | 10500 | |
| 2e | Quantity of overburden generation in m3 | 23640 | 22000 | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | It is a sedimentary deposit. Development has been done along the strike as well along dip mostly within the pit. Separate benches in Soil and Limestone has been formed. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------|---------------|---------|
| 3a | Number of pit proposed for production | One | One | |
| 3b | Quantity of ROM mineral production proposed | 199990 tonnes | 199000 tonnes | |
| 3c | Recovery of sailable/usable mineral from ROM production | NA | NA | |

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|----|--|--------------|---|------------------------|
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | NA | NA | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | NA | NA | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | YES | mechanised method adopted. | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Not proposed | Not done | |
| 3j | Provision of drilling and blasting in mineral benches | yes | yes | |
| 3k | Provision of mining machineries in mineral benches | yes | as per proposal | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | yes | during inspection it was found that the width of the limestone benches in some area of northern part of the quarry was not maintained properly resulting in increased bench height in the between the grid coordinates 2666500 N to 2666480 N & 469870 E to 469880 E. | violation pointed out. |
| 3m | Total area covered under excavation/pits | 2.248 Ha | 2 Ha | |

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|----|--|--|--|
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.17 | 1:0.16 |
| 3o | Total area put in use under different heads at the end of year | 3.176 ha | 3.05 ha |
| 3p | Production of ROM mineral during the last five year period as applicable | 15-16- 71,145Tonnes 16-17- 1,60,650tonnes 17-18- 1,99,800Tonnes 18-19- 199405 tonnes 19-20-199990 Tonnes | 15-16- 0 Tonnes 16-17- 500 tonnes 17-18-1,17,960 Tonnes 18-19- 199350 tonnes 19-20-199000 Tonnes |
| 3q | General remarks of inspecting officers on method of mining etc. | | |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dump of OB Soil and Mineral proposed | separate dumps maintained for OB, Soil and Mineral. | |
| 4b | Location of topsoil, OB and mineral reject dumps | North western part of the lease area | North western part of the lease area | |
| 4c | Number of dumps within lease area and outside of lease area | 02 | 02 | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL | Outside UPL | |
| 4e | Number of active and alive dumps. | 01 | 01 | |

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|----|--|---------------------------|---------------------------|
| 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. | Garland drain Proposed | garland drain 100 x 1 x 1 |
| 4i | Length of Retaining wall or garland drain all along dumps | garland drain 100 x 1 x 1 | garland drain 100 x 1 x 1 |
| 4j | Number of settling ponds | Nil | Nil |
| 4k | Specific comments of inspecting officer on 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. | Full extraction proposed before backfilling | Full extraction before backfilling adopted. | |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Top soil used for plantation | Top soil used for plantation | |
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | |

5e General remarks
of inspecting
officers on
backfilling and
reclamation etc.

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 | submitted | |
| 6b | Area available for rehabilitation (ha) . | 2500 sqm | 2500 sqm | |
| 6c | afforestation done (ha). | 2500 sqm | 2500 sqm | |
| 6d | No. of saplings planted during the year | 100 | 280 | |
| 6f | Any other method of rehabilitation | NA | NA | |
| 6g | Cost incurred on watch and care during the year | NA | NA | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NA | NA | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | NA | NA | |

| | | | |
|----|---|-----|-------------|
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area | NA | NA |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NA | NA |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | NA | NA |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | NA | NA |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | NA | NA |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | NA | NA |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | YES | CARRIED OUT |

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grading, Sorting & Sizing proposed within ML. | Grading, Sorting & Sizing carried out within ML. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical | Mechanical | |
| 7c | Different grade of mineral sorted out at mines. | Not proposed | NA | |
| 7d | Any beneficiation process at mines . | Not proposed | NA | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|-----------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Proposed | As per proposal | |

| | | | |
|----|---|--------------|---|
| 8b | Concurrent use or storage of topsoil | Proposed | As per proposal |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Proposed | As per proposal |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not Proposed | NA |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not Proposed | NA |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | yes | Number of trees planted during the year 280 nos |
| 8g | Survival rate | Not proposed | Survival rate in percentage - 70.00 |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | Water sprinkling carried out. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines 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 | given | MR submitted upto March 2021 AR submitted upto 2019-20 |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | given | Manager & Mining Engineer - Shri Raj Narayan Dhruv Geologist- Shri Manoj Kumar Tripathi |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | given | Already exploited & abandoned by opencast (O/C) mining 2 ha Covered under current (O/C) Workings - 0.8 ha Work done under progressive mine closure plan during the year 0.25 ha |
| 9d | Scrutiny of Annual return on afforestation | given | Number of trees planted during the year 280 nos Survival rate in percentage 70.00 |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | given | nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | given | nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | yes | Ex-mine price (in Rs PerTonne) for cement grade is 396.34 rupees. |
| 9h | Scrutiny of Annual return on fixed assets | yes | Value of Fixed Assets (in Rs) 11308873 |
| 9k | Scrutiny of Annual return on mining machineries | GIVEN | AIR COMPRESSOR 175.000 CUM/MN 1 Non Electrical Opencast ROCK DRILL (NONELEC.) 122.000 MM 2 Non Electrical Opencast |

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) | 26-MAR-21 | | | |
| MCDR17 | Rule 31(4) | 26-MAR-21 | | | |

Date :

(ROBERT SIMON C)

Indian Bureau of Mines