

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/9475/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/GWL/IORE-3

Mine code : 30MPR15002

- (i) Name of the Inspecting : C004 ) ROBERT SIMON C  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : MR MAHIPAL SOLANKY, GEOLOGIST, MR RAJENDRA SINGH LAHA  
Official with  
Designation
- (iv) Date of Inspection : 31-MAY-22
- (v) Prev.inspection date : 08-NOV-17

PART-I : GENERAL INFORMATION

1. (a) Mine Name : PANIHAR
- (b) Registration NO. : IBM/6663/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : GWALIOR  
Village : PANIHAR  
Taluka : GWALIOR  
Post office : GWALIOR  
Pin Code : 474009  
FAX No. : 07514087664  
E-mail : lahariyaemerald@gmail.com  
Phone : 07514010787
- (f) Police Station : PANIHAR
- (g) First opening date : 05-MAY-84
- (h) Weekly day of rest :
2. Address for : KUNWARANI AYODHYA SINGH  
correspondance : 6,USHA COLONY, GWALIOR (M.P.) 474009
3. (a) Lease Number : MPR0554
- (b) Lease area : 14.7
- (c) Period of lease : 20
- (d) Date of Expiry : 05-OCT-22
4. Mineral worked : IRON ORE Main

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## 5. Name and Address of the

Lessee : KUNWARANI AYODHYA SINGH  
6,USHA COLONY LASHKAR  
GWALIOR MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : KUNWARANI AYODHYA SINGH  
6,USHA COLONY LASHKAR  
GWALIOR MADHYA PRADESH  
Phone: 323013  
FAX : N. A.

|                               |   |                                |           |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Existing rule 11 MCDR1988      | 05-OCT-99 |
| Plan/Scheme of Mining         |   | Renewal under rule 24 MCR1960  | 23-AUG-04 |
|                               |   | Mining Scheme rule 12 MCDR1988 | 28-JUL-09 |
|                               |   | Modif.of approved Mining Plan  | 31-JUL-12 |
|                               |   | Mining Scheme rule 12 MCDR1988 | 31-JUL-12 |
|                               |   | MP review under 17(1) MCR 2016 | 30-NOV-17 |

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## 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      | NOT SPECIFIED | G1-14.2731 ha<br>Area to be explored (Unexplored area ) - 0.4269 ha |         |
| 1e     | Balance reserve as on 01/04/20                                      | Not specified | 111-4480537 T as on 1/4/2022  |         |
| 1f     | General remarks of inspecting officers on geology, exploration etc  |               | G1-14.2731 ha<br>Area to be explored (Unexplored area) -0.4269 ha   |         |

## Development :

| Sl.No. | Item   | Proposals   | Actual work   | Remarks |
|--------|--|---|---|---------|
| 2a     | Location of development w.r.t.lease area                       | In Central part of the lease area                           | In Central part of the lease area                             |         |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Separate benches in topsoil overburden and mineral proposed | Separate benches in topsoil overburden and mineral maintained |         |
| 2c     | Stripping ratio or ore to OB ratio                             | 1:0.08  | 1:0.09  |         |
| 2d     | Quantity of topsoil generation in m3                           | Nil   | Nil   |         |
| 2e     | Quantity of overburden generation in m3                        | 10650 m3  | 10950 m 3   |         |

## Exploitation:

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| Sl.No. | Item  | Propasals                                       | Actual work                                 | Remarks |
|--------|---|---|---|---------|
| 3a     | Number of pit proposed for production   | 01  | 01  |         |
| 3b     | Quantity of ROM mineral production proposed   | 119280 t  | 120000t                                     |         |
| 3c     | Recovery of sailable/usable mineral from ROM production   | Not specified                                   | 80 %  |         |
| 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.   | NA  | NA  |         |
| 3g     | Grade of sub grade mineral generation   | NA  | NA  |         |
| 3h     | Manual / Mechanised method adopted for segregating from ROM                                     | Mechanised                                      | Mechanised                                  |         |
| 3i     | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No beneficiation study proposed                 | No beneficiation study carried out          |         |
| 3j     | Provision of drilling and blasting in mineral benches   | Drilling & blasting in mineral benches proposed | Drilling & blasting in mineral benches done |         |

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|    |  |  |   |   |
|----|--|--|---|---|
| 3k | Provision of mining machineries in mineral benches   | Mining machineries in mineral benches proposed | Type of machinery<br>Capacity of each unit<br>No.of units<br>Electrical/<br>Non-Electrical<br>(specify)<br>Used in opencast/<br>underground<br>(specify)<br>CRUSHER 250.000 T/H 1<br>Electrical Opencast<br>DUMPER 8.000 TONNE 8 Non<br>Electrical Opencast<br>JEEP/TRACTOR 50.000 HP 2<br>Non Electrical Opencast<br>GENERATOR (DIESEL)<br>380.000 KWH 1 Electrical<br>Opencast<br>WATER TANKER 2000.000<br>LITRE 1 Non Electrical<br>Opencast<br>PUMPS (ELEC.) 150.000<br>L/MN 1 Electrical<br>Opencast<br>OTHERS (NON-ELEC.) 2.500<br>4 Non Electrical<br>Opencast | Violation pointed out under Rule 11(1) of MCDR 2017 |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | proposed                                       | It was proposed to maintain 06 nos of benches with an average ht of 3-5 m for the year 2021-22 but during inspection it was observed that the benches were not maintained properly in the eastern portion of the lease area between the pillar nos. BP4 to BP5 resulting in highwall.   | Violation pointed out under Rule 11(1) of MCDR 2017 |
| 3m | Total area covered under excavation/pits   | Not specified                                  | 6.6109 ha   |   |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1:0.08   | 1:0.09  |   |
| 3o | Total area put in use under different heads at the end of year                                       | Not specified                                  | 8.332 ha  |   |

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|    |  |              |        |   |   |                       |
|----|--|--------------|--------|---|---|-----------------------|
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18<br>T | 256592 | 2017-18<br>2018-19<br>2019-20<br>2020-21<br>2021-22 | 19300<br>60500<br>75200<br>236100<br>120000 | T<br>T<br>T<br>T<br>T |
|    |  | 2019-20<br>T | 262416 |   |   |                       |
|    |  | 2020-21<br>T | 226632 |   |   |                       |
|    |  | 2021-22<br>T | 119280 |   |   |                       |

3q General remarks of inspecting officers on method of mining etc.

It was proposed to maintain 06 nos of benches with an average ht of 3-5 m for the year 2021-22 but during inspection it was observed that the benches were not maintained properly in the eastern portion of the lease area between the pillar nos. BP4 to BP5 resulting in highwall. Violation pointed out under Rule 11(1) of MCDR 2017.

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Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals                                | Actual work                              | Remarks |
|--------|--|--|--|---------|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping of OB proposed          | Separate dumping of OB done              |         |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | OB dump in South west of the lease area. | OB dump in South west of the lease area. |         |
| 4c     | Number of dumps within lease area and outside of lease area      | 04                                       | 04                                       |         |

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|    |  |            |            |   |
|----|--|------------|------------|---|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Within UPL | Within UPL |   |
| 4e | Number of active and alive dumps.                                  | 04         | 04         |   |
| 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. | Nil        | Nil        |   |
| 4i | Length of Retaining wall or garland drain all along dumps          | Nil        | Nil        |   |
| 4j | Number of settling ponds   | Nil        | Nil        |   |
| 4k | Specific comments of inspecting officer on waste dump management   |            |            | 04 temporary OB dumps maintained in the lease area. |

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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. | Backfilling proposed after full extraction of mineral | Backfilling adopted after full extraction of mineral |         |
| 5b     | Area under backfilling of mined out area  | Not specified   | 1.9 ha already existing                              |         |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | NA  | NA   |         |
| 5d     | Total area fully reclaimed and rehabilitated  | Not specified   | 1.9 ha as per AR                                     |         |

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|----|--|--|
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Backfilling, reclamation have been carried out in the lease after extraction of mineral. |
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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).                               | Not specified | The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2021-22. | Violation pointed out under Rule 26(2) of MCDR 2017 |
| 6b     | Area available for rehabilitation (ha) .   | Not specified | The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2021-22. | Violation pointed out under Rule 26(2) of MCDR 2017 |
| 6c     | afforestation done (ha).   | NA            | Not available  |   |
| 6d     | No. of saplings planted during the year  |               | Number of trees planted during the year 150 nos as per AR  |   |
| 6e     | Cumulative no .of plants   | Not specified | NA   |   |
| 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   |   |

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|    |   |    |   |
|----|---|----|---|
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on 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)  | NA | Environment monitoring done   |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.         |    | The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2021-22. Violation pointed out under Rule 26(2) of MCDR 2017. |

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## Mineral Conservation:

| Sl.No. | Item   | Propasals            | Actual work          | Remarks                                    |
|--------|--|----------------------|----------------------|--|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | ROM mineral dispatch | ROM mineral dispatch |  |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | mechanical           | mechanical           |  |
| 7c     | Different grade of mineral sorted out at mines.  | Not specified        | Below 55% as per AR  |  |
| 7d     | Any beneficiation process at mines   | Not proposed         | Not done             |  |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues |                      |                      | ROM mineral dispatch with sorting adopted. |

## Environment:

| Sl.No. | Item  | Propasals                              | Actual work                              | Remarks |
|--------|---|--|--|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | Not proposed                           | Nil                                      |         |
| 8b     | Concurrent use or storage of topsoil  | NA                                     | NA                                       |         |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                            | Separate dumps for overburden proposed | Separate dumps for overburden maintained |         |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Dumps for overburden proposed          | Dumps for overburden maintained          |         |

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|    |   |   |   |   |
|----|---|---|---|---|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Backfilling proposed  | Backfilling done  |   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | Not specified   | NA  |   |
| 8g | Survival rate   | Not specified   | 60 %  |   |
| 8h | Water sprinkling on roads to control airborne dust  | Water sprinkling on roads to control airborne dust proposed | Water sprinkling on roads to control airborne dust done |   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |   |   | Aesthetic beauty in and around mine area is moderate. |

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**Compliance of Rule 45:**

| Sl.No. | Item  | Propasals                 | Actual work   | Remarks |
|--------|---|---------------------------|---|---------|
| 9a     | Status of submission of Monthly and Annual returns                                  | Returns submitted online. | Returns submitted online.   |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Given                     | Manager Quzi Imtiyaz Ahmed<br>Mining Engineer in charge Quzi Imtiyaz Ahmed<br>Geologist in charge Mahipal Singh Solanki |         |

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|    |   |       |   |
|----|---|-------|---|
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Given | Lease area (surface area)<br>utilisation as at the end of year (hectares)<br>Under forest<br>Outside forest Total<br>(i) Already exploited & abandoned by opencast (O/C) mining<br>0.000 0.000 0.000<br>(ii) Covered under current (O/C) Workings<br>0.000 8.195 8.195<br>(iii) Reclaimed/Rehabilitated<br>0.000 1.900 1.900<br>(iv) Used for waste disposal<br>0.000 0.300 0.300<br>(v) Occupied by plant, buildings, residential, welfare buildings & roads<br>0.000 0.500 0.500<br>(vi) Other Purpose<br>0.000 0.000 0.000<br>(vii) Work done under progressiv |
| 9d | Scrutiny of Annual return on afforestation  | Given | Within lease area (b)<br>Outside lease area<br>(i) Number of trees planted during the year<br>150 100<br>(ii) Survival rate in percentage<br>60.00 80   |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Nil   | Nil   |

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|    |   |       |   |
|----|---|-------|---|
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                    | Given | Production and Stocks of ROM ore at Mine-head ( IRON ORE (Hematite) )<br>Category Opening stock (in tonne)<br>Production (in tonne)<br>Closing stock (in tonne)<br>(a) Open Cast Workings<br>7294.000 120000.000<br>5909.000<br>(b) Dump Workings<br>74050.000 0.000<br>74050.000             |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Given | Fines Grades (% of Fe content)<br>Opening stock at mine head (in tonne)<br>Production (in tonne)<br>Dispatches from mine head (in tonne)<br>Closing stock at mine head (in tonne)<br>Ex-mine price (in . Per Tonne)<br>(a) Below 55% 109687.250<br>120919.000 119105.350<br>111500.900 400.00 |
| 9h | Scrutiny of Annual return on fixed assets                                   | Given | Value of Fixed Assets (in Rs.) 70216198   |

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|    |  |       |  |
|----|--|-------|--|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | Given | Type of<br>machinery<br>Capacity of<br>each unit<br>No.of<br>units<br>Electrical/<br>Non-Electrical<br>(specify)<br>Used in opencast/<br>underground<br>(specify)<br>CRUSHER 250.000 T/H 1<br>Electrical Opencast<br>DUMPER 8.000 TONNE 8 Non<br>Electrical Opencast<br>JEEP/TRACTOR 50.000 HP 2<br>Non Electrical Opencast<br>GENERATOR (DIESEL)<br>380.000 KWH 1 Electrical<br>Opencast<br>WATER TANKER 2000.000<br>LITRE 1 Non Electrical<br>Opencast<br>PUMPS (ELEC.) 150.000<br>L/MN 1 Electrical<br>Opencast<br>OTHERS (NON-ELEC.) 2.500<br>4 Non Electrical<br>Opencast |
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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 |

**Date :****(ROBERT SIMON C)**

Indian Bureau of Mines