

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/JAB/IRON-

**Mine code :** 30MPR18013

- (i) Name of the Inspecting : **G005** ) **SANJAY M. GIRHE**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 21-OCT-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GANDHIGRAM (4.47 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : JABALPUR  
Village : GANDHIGRAM  
Taluka :  
Post office :  
Pin Code :  
FAX No. : NA  
E-mail : NA  
Phone : NA
- (f) Police Station :
- (g) First opening date : 26-NOV-10
- (h) Weekly day of rest :
2. Address for : SHRI MUKUL KHAMPARIYA  
correspondance : MAJHGAWAN ROAD, KHITOLA,  
P.O. SIHORA, DISTT. JABALPUR (M.P.)
3. (a) Lease Number : MPR2261
- (b) Lease area : 4.47
- (c) Period of lease : 20
- (d) Date of Expiry : 19-FEB-29
4. Mineral worked : LATERITE Associated  
IRON ORE Main

5. Name and Address of the

Lessee : MUKUL KHAMPARIYA  
WARD NO. 8 TAH. SIHORA  
DISTT. JABALPUR (M.P.)  
JABALPUR MADHYA PRADESH  
Phone:  
FAX :

Owner : MUKUL KHAMPARIYA  
WARD NO. 8 TAH, . SIHORA  
DISTT. JABALPUR (M.P.)  
JABALPUR MADHYA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 18-MAY-15  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2019-20 no exploration was proposed	Nil	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	NA	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2019-20 no exploration was proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	G1 level: 3.34 Ha G2 level: 1.07 Ha Area explored under G1 level by way of working & trial pits. Total 06 BHs have been proposed in ROMP approved on dtd 04.12.2020 for the period 2021-21 to 2024-25	In previous approved MP period no exploration were carried out. Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (121)-261191 MT Resources Feasibility(21): 505049 MT Indicated Mineral Resources: 766240 MT	Reserves in Tonnes Probable (121)-261191 MT Resources in tonnes Feasibility(21): 505049 MT Indicated Mineral Resources: 766240 MT	No reestimation of reserves were carried out in ROMP approved on dtd 04.12.2020

1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	No detailed exploration done for G1 axis however iron ore mineralized in the area proved up to 14mts by working pits. Expoloration proposed by 06 boreholes in ROMP approved on dtd 04.12.2020 for G-1 level.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ROM excavation was proposed in Pit-1 by formation of single bench of 375-370mRL	No Iron ore production carried out during the year	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil & OB bench proposed. Bench of 5mts proposed for Iron Ore	No iron ore production carried out during the year	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
2c	Stripping ratio or ore to OB ratio	1:0.02	Nil	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
2d	Quantity of topsoil generation in m3	Not Proposed	NA	
2e	Quantity of overburden generation in m3	5000 CuM OB generation were proposed	Nil	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There is single working pit having dimensions of 33461 Sq.M x 14mts. Along with iron ore, top benches of lateritic material also encountered.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One i.e Pit-1	No mine operation carried out during the year	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
3b	Quantity of ROM mineral production proposed	30,000 MT proposed in 2019-20	No ROM excavation carried out	Since March-2018 mine operations were suspended/stopped for the want of Env. Clearance
3c	Recovery of sailable/usable mineral from ROM production	95% recovery of Iron ore from ROM	Not done	
3d	Quantity of mineral reject generation	Not Proposed	Nil	No mineral rejects generated from mine
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	No sub-grade mineral/ore generated from mine
3g	Grade of sub grade mineral generation	Not Proposed	Nil	

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3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA	Beneficiation is not required as entire ROM being utilised as reported in document
3j	Provision of drilling and blasting in mineral benches	Proposed as and when required	Nil	The mineralisation in the lease area is amenable to direct excavation by hydraulic excavator hence drilling/blasting is proposed as and when required
3k	Provision of mining machineries in mineral benches	Excavator- 1.1Cum capacity jack Hammer- 35mm TATA Dumper model 2515, 16 T capacity Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	Excavator- 1.1Cum capacity jack Hammer-35mm Wagon Drill TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Water pump with Diesel engine	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB bench height is proposed Bench height of 5m proposed in mineral	At some extent bench height is not regular due to quality constraints	
3m	Total area covered under excavation/pits	3.66 Ha area was proposed in approved MP period i.e. 2015-16 to 2019-20	No ROC excavation carried out during the year	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.03	No development/excavation carried out	
3o	Total area put in use under different heads at the end of year	As per the previous approved MP Pits-3.11Ha Waste dump site-0.33 Ha	As per the previous approved MP dtd 04.12.2020 Pits-3.66Ha Mineral Storage-0.0074Ha Waste dump site-0.006 Ha Infrastructure-0.03Ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-: 57,000MT 2016-17-: 74,100 MT 2017-18-: 49,875 MT 2018-19-: 49,875 MT 2019-20-: 30,000 MT	2015-16-: 49,178 MT 2016-17-: 10,056 MT 2017-18-: 3,567 MT 2018-19-: Nil MT 2019-20-: Nil MT	Mine operation stopped/suspended for the want of EC
3q	General remarks of inspecting officers on method of mining etc.	Open cast Mechanised mining operations were proposed by using Excavator /JCB & dumper combination with shallow drilling & blasting using jack hammer.	No development/production carried out during the year	Open cast Mechanised mining operations were proposed by using Excavator /JCB & dumper combination with shallow drilling & blasting using jack hammer.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dumping proposed separately at earmarked location	No OB generation carried out during the year	

4b	Location of topsoil, OB and mineral reject dumps	OB dumping was proposed towards south-west part of lease area	No development works carried out during the year	
4c	Number of dumps within lease area and outside of lease area	One dead dump of OB in lease area	No OB dumps outside lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One OB dump in between S300 to S-200 and E100 to E170 is existing. Size of these dumps are 60 sqM x 4.0m.	One OB dump in between S300 to S-200 and E100 to E170 is existing. Size of these dumps are 60 sqM x 4.0m.	No other OB observed in the lease area
4e	Number of active and alive dumps.	Active dump- One OB dump in between S300 to S-200 and E100 to E170 is existing. Size of these dumps are 60 sqM x 4.0m.	No dumping carried out during the year	
4f	Number of dead dumps.	Not Proposed	No dead dumps in the lease area	
4g	Number of dumps established.	Not Proposed	Not Stabalised	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	OB in the area generally occurred in the form of phyllitic ochre. One old dump of OB onservred in lease area.



## 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 backfilling proposed	NA	
5b	Area under backfilling of mined out area	Not Proposed	NA	Mined out area yet to be matured for backfilling purpose
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Area is devoid of top soil	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Mineral/ore not fully eahusted in any pit. Hence, scope of reclamation by backfilling doesn't exist.

## 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).	To be submitted before 1st July of every year	Not submitted	Mining operations suspended/stopped since March-18 due non availability Env. Clearance
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha) .	200 saplings were proposed	Not done	

6d	No. of saplings planted during the year	200 saplings proposed	Nil	Mining operations suspended/stopped since March-18 due non availability Env. Clearance
6e	Cumulative no .of plants	Not Proposed	NA	
6f	Any other method of rehabilitation	Not Proposed	NA	
6g	Cost incurred on watch and care during the year	Not Proposed	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Nil	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Not Done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Mine operations suspended/stopped since March,18 for the want of env.clearance

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	30000 MT proposed as total ROM production for despatch. Manua grade wise sorting proposed within lease area to enhance physical & chemical quality of ore.	No production of iron ore carried out during the year	Mine operations suspended/stopped due to Env. clarance

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Cement grade & beneficiable grade ore proposed for sorting	Not done as no production reported during the year	
7d	Any beneficiation process at mines .	Not Proposed	Nil	Beneficiation is not proposed but ore being supplied to other beneficiation plants.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Mineral is being conserved by grade wise sorting in the lease area. Iron ore having >42% CaO, Al <sub>2</sub> O <sub>3</sub> -31% & 4-14% SiO <sub>2</sub> proposed to be sell to the cement plants.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	No top generation proposals given in approved document
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	Not done as no production carried out during the year	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Temporary stacking towards north-eastern part of lease area proposed.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Not Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200 sapling/year & accordingly proposals were given in ROMP for the year 2020-21 to 2024-25.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Online Monthly return for September-20 Online Annual Return for 2019-20	Online monthly return for September-20 was submitted within time limit Online annual Return for 2019-20 was submitted within time limit	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mr Sudhir Rajan Giri appointed as Mining Engineer Mr Manoj Kumar Dara appointed as Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Open cast working-2.950 Ha Infrastructure - 0.004Ha Green belt -0.150Ha	
9d	Scrutiny of Annual return on afforestation	Given	Within mining lease area - 10 saplings planted & outside ML area 05 saplings planted	Survival rate is mentioned as 65% which is very low
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	No mineral reject generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Below 55% Fe : O/s- 19870 MT Despatches - Nil C/S - 19870 MT	During the year 2019-20 no iron ore production, despatches reported.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not Given	No production, despatches reported during the year	
9h	Scrutiny of Annual return on fixed assets	Not Given	Mining operations suspended/stopped due to non-availability of EC	
9k	Scrutiny of Annual return on mining machineries	Not Given	NA	Mining operations suspended/stopped due to non availability of Env. Clearance

**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 :****(SANJAY M. GIRHE)**

Indian Bureau of Mines