

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/JBP/IRON ORE-21

**Mine code :** 30MPR18023

- (i) Name of the Inspecting : **SQ23** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Dinesh SIngh (Business Head ), Shri Pandey (GM M  
Official with  
Designation
- (iv) Date of Inspection : 10-MAY-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GHUGHRIKALA**
- (b) **Registration NO.** : **IBM/766/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : JABALPUR  
Village :  
Taluka : SIHORA  
Post office : TIKARIYA  
Pin Code : 483334  
FAX No. :  
E-mail : amckatni@rediffmail.com  
Phone : 07622-404395
- (f) Police Station :
- (g) First opening date : 08-JUN-18
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance :
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : M/s NIRMALA MINERALS  
PATHAK WARD KATNI MADHYA  
PRADESH  
Phone:N.A  
FAX :N.A

Owner : M/s NIRMALA MINERALS  
M/s NIRMALA MINERALS PATHAK  
WARD KATNI MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

Agent : HARSH KAPOOR  
PATHAK WARD KATNI  
JABALPUR MADHYA PRADESH  
Phone:  
FAX :

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	-	nil	
1b	Exploration over lease area for geological axis 1 or 2	4-DTH 4-CORE	4-DTH 4-CORE	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NP	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	all area in G2.	in new plan proposal for G1 given.some depth resouces in G3
1e	Balance reserve as on 01/04/20	-	122-1.319680 mioT 222-0.221960mioT 333-3.017709 mioT	as on 01.04.21
1f	General remarks of inspecting officers on geology, exploration etc			The reserves are reassessed at year end due to drilling.Strike is East - 15 degree north and west - 15 degree 500m and dip is 5 degree to 25 degree SE to SSE. Banded haematite jasper, BHQ, fergenuous quart and iron ore.two blocks of approx-4 hectare each.grade 45to 55 Fe.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	eastern block	eastern & western block	violation is pointed out.deviation in mine working.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no, defined top soil ,O.B. and Iron ore	OB & Iron ore	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.06	
2d	Quantity of topsoil generation in m3	nil	nil	
2e	Quantity of overburden generation in m3	2094 M3	2365 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine area is divided into two separate eastern & western block of approx -4 hect. Mining is done into benches formed upto 6 mtr. Deviation observed in working.work done other than planned area.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	02	violation issued
3b	Quantity of ROM mineral production proposed	113061T	112066.49T	
3c	Recovery of sailable/usable mineral from ROM production	NP	NA	
3d	Quantity of mineral reject generation	NP	NA	

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3e	Grade of mineral rejects generation and threshold value declared.	no proposal	NA	
3f	Quantity of sub grade mineral generation.	no proposal	NA	
3g	Grade of sub grade mineral generation	no proposal	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	no proposal	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no proposal	NA	
3j	Provision of drilling and blasting in mineral benches	no proposal	NA	
3k	Provision of mining machineries in mineral benches	YES	Machine are used.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtr	6 mtr benches	suitable for mech. mining
3m	Total area covered under excavation/pits	2.10 hect.	5.10 hect.	area put to use exceeded. violation issued.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.06	
3o	Total area put in use under different heads at the end of year	3.65 hect.	5.58 hect.	violation is issued for exceeding land use.

3p	Production of ROM mineral during the last five year period as applicable	2016-17 42231 2017-18 87225 2018-19 185232 2019-20 89340 2020-21 113061	2016-17 : 0 2017-18 : 0 2018-19 : 1154152.34 2019-20 : 84110.875 2020-21 : 112066.49
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3q	General remarks of inspecting officers on method of mining etc.	Mechanised mining is being done using excavators, dozens, tipper etc. New plan is made from 2021-22 onwards.
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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)	No top soil for waste	waste deposited seperately	
4b	Location of topsoil, OB and mineral reject dumps	01 waste dump	waste dump	close to barrier /barrierwestern block
4c	Number of dumps within lease area and outside of lease area	01	01	within lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside	outside	
4e	Number of active and alive dumps.	01	01	in barrier/close to barrier
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	01	01	waste disposed in barrier/close to barrier
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	

4i	Length of Retaining wall or garland drain all along dumps	Proposed	made (approx 75 mtr)	waste used in barrier bund.
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			some waste /soil has been used in plantation and in north 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.	Not proposed	NA	
5b	Area under backfilling of mined out area	Not proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	NA	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal for backfilling.pits are under working.

#### 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).		Report not submitted violation issued.
6b	Area available for rehabilitation (ha) .	No proposals	NA
6c	afforestation done (ha).	No proposals for worked out /mined out benches	NA
6d	No. of saplings planted during the year	No proposals for worked out /mined out benches	NA
6e	Cumulative no .of plants	No proposals for worked out /mined out benches	NA
6f	Any other method of rehabilitation	No proposals for worked out /mined out benches	NA
6g	Cost incurred on watch and care during the year	No proposals for worked out /mined out benches	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposals for backfilling	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals for backfilling	NA



6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals for backfilling	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals for backfilling	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals for backfilling	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	100 Nos.	150 nos	150 Nos.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.10 ha	.10 ha	Barrier
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals for backfilling	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Done	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation in barrier is observed in mines.
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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	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM	ROM	
7c	Different grade of mineral sorted out at mines.	No proposals	not done	-
7d	Any beneficiation process at mines .	No proposals	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is sent to local industries/cement plant.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	no proposals	Not done.	

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8b	Concurrent use or storage of topsoil	no proposals	Not done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dumps	Done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed in this period	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed in plan	Not done.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	base line not given, additional 100 nos.	150 nos.	
8g	Survival rate	80 %	80 %	
8h	Water sprinkling on roads to control airborne dust	Planned	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			It is new mine in operation area's yet to mature for backfilling ,rehabilitation/restoration.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes done.delay observed in annual return.		Annual return was not submitted in time. Violation issued.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Geologist in charge RAJESH JAIN Manager R.K.PANDEY	Violation issued for appointment of Mining engineer
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) Workings :5.100 (iv) Used for waste disposal : 0.060 (v) Occupied by plant, buildings, residential, welfare buildings & roads : 0.080 (vi) Other Purpose (PLANTATION,) 0.200		Information is given.land use exceeded.violation is issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	0,no rejects	Nil no reject	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	No stocks at mine head	No stocks at mine head
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Exmine -fine 461,lump 490,cop-450rs/ton Sale price: 460-500	info given
9h	Scrutiny of Annual return on fixed assets		1. Value of Fixed Assets 95178861	value of FA given

9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.900 CUM 2 FRONT END LOADER 1.700 CUM 1 DOZER 410.000 HP 1 DUMPER 20.000 TONNE 6	list of machines given
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**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)	16-JUL-21	07-OCT-21				
	Rule 26(2)	16-JUL-21	07-OCT-21				
MCDR17	Rule 45(5) (k	16-JUL-21	07-OCT-21				
	Rule 55	16-JUL-21	07-OCT-21				

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines