

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/BGT/MN 20

Mine code : 40MPR01075

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh O. G. Goyal (Executive Director), Sh S. K. Bhanjan
Official with
Designation
- (iv) Date of Inspection : 11-JUN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GHONDI MN ORE MINE 40.47H**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : GHONDI
Taluka : PARASWADA
Post office : ROOPJHAR
Pin Code : 481105
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked :

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	20 BHs	22 BHs	
1b	Exploration over lease area for geological axis 1 or 2	Exploration over lease area for G-1.	Proposed exploration has been done as per approved document.	Exploration was not completed to establish the non mineralised area in the lease. Proposal for exploration to establish non mineralised area has been furnished in the approved document.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	RK drilling services Expenditure Proposal-19.6 Lakhs	RK drilling services Expenditure- 24.70 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Exploration was not completed to establish the non mineralised area in the lease. Proposal for exploration to establish non mineralised area has been furnished in the instant approved document.
1e	Balance reserve as on 01/04/20	Balance reserve as on 01/04/2021 284319 T	Balance reserve as on 01/04/2021 206941 T	The reserves were reduced after the interpretation of exploration data.
1f	General remarks of inspecting officers on geology, exploration etc			22 nos of core drill boreholes were carried out in the lease area. The reserves were reduced after the interpretation of exploration data.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	8 Ha	4.5 Ha	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches in topsoil overburden and mineral not maintained as per approved document.	Violation pointed out for the same under rule 11(1) of MCDR-2017
2c	Stripping ratio or ore to OB ratio	1 : 12	1 : 18	
2d	Quantity of topsoil generation in m3	160000 cum	90000 cum	Mine development not done as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2e	Quantity of overburden generation in m3	866630 cum	332215 cum	Mine development not done as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development not done as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 pits	3 pits	Mine development not done as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
3b	Quantity of ROM mineral production proposed	18743 T	5326.54 T	

3c	Recovery of sailable/usable mineral from ROM production	Not Applicable	Not Applicable	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
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	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Height of the benches in OB and Mineral not maintained as per approved document	Violation pointed out for the same under rule 11(1) of MCDR-2017

3m	Total area covered under excavation/pits	8.00 Ha	4.50 Ha	Mine development not done as per approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
3n	Ore to OB ratio for the pit/mine during the year.	1 : 12	1 : 18	
3o	Total area put in use under different heads at the end of year	27.163 Ha	18.26 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 13545 2017-18 18900 2018-19 18830 2019-20 18508 2020-21 18743	2016-17 0.00 2017-18 0.00 2018-19 0.00 2019-20 1384.14 2020-21 5326.54	
3q	General remarks of inspecting officers on method of mining etc.			Mine development not done as per approved document. Underground mine development was not done against the proposal in the 2020-21. Violation pointed out for the same under rule 11(1) of MCDR-2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	yes	
4b	Location of topsoil, OB and mineral reject dumps	Top soil- Near barrier zone OB/waste - Near SE boundary	Near As per proposal	

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)	SE direction of pit	SE direction of pit	
4e	Number of active and alive dumps.	One	One	
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.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	640 m	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			One active dump was observed for dumping of waste.

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.	Mineral not fully extracted from the mined out area.	Area not matured for backfilling.	
5b	Area under backfilling of mined out area	Nil	Nil	Area not matured for backfilling.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Nil	Plantation proposed in the conceptual mining period
5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured for backfilling and reclamation.

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	Not submitted	Violation pointed out for the same under rule 26(2) of MCDR-2017
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	3.2 ha	3.2 ha	
6d	No. of saplings planted during the year	366 numbers	400 numbers	
6e	Cumulative no .of plants	4800 numbers	6200 numbers	
6f	Any other method of rehabilitation	Not Proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not Specified	Rs. 60000.00	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	3.2 Hect	3.2 Hect
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not Applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
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 previous approved plan period. Violation pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM will be sent to the consumer Hira Power & Steel Ltd	Entire ROM is being send to the consumer Hira Power & Steel Ltd	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical and Manual both	Mechanical and Manual both	
7c	Different grade of mineral sorted out at mines.	10% to 46%	10% to 46%	
7d	Any beneficiation process at mines	No	No	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM will be sent to the consumer Hira Power & Steel Ltd after sorting at lease by manual and mechanical method.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	Top soil partially utilised for plantation.	
8b	Concurrent use or storage of topsoil	Storage of soil for plantation	Storage of soil for plantation	Top soil partially utilised for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	One OB dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not done	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4800 Saplings	6200 Saplings planted	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			6200 Saplings planted in the lease area in the approved period for aesthetic beauty of the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Submission status of MR from Apr-20 to Mar-21 and AR for the year 2020-21	Monthly Returns submitted since June 2019. Annual Return submitted for the RY 2020-21.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mine Manager- Mr. Sachin Karadbhajane Geologist-Mr. Mahesh Choudhary Mining Engineer- Mr. Utkarsh Kumar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Area covered under current working- 2.20Ha Area used for waste disposal- 8.37Ha Area occupied by plant, buildings, residential, welfare buildings, roads- 1.8Ha Other purpose (Green Belt)- 3.63Ha	

9d	Scrutiny of Annual return on afforestation	400 plant in RY 2020-21	400 plant in RY 2020-21 and 6200 sapling plantation done in last review period	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Production of ROM - 5326.540 T and Closing balance as on 31.03.2021 is 404.73 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Sale value - Rs 2420.00 per Tonne Ex Mine Price -1475.00 per Tonne Production Cost - 1889.00 per Tonne	
9h	Scrutiny of Annual return on fixed assets	Yes	Not provided	AR is referred back to the lease holder.
9k	Scrutiny of Annual return on mining machineries	Yes	DUMPER 16.000 TONNE 6 Non Electrical Opencast BACK HOE 1.200 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.900 CUM 1 Non Electrical Opencast AIR COMPRESSOR 400 CUM/MN 01 No. BLAST HOST DRILL 80 MM 01 No. FRONT END LOADER 1 CUM 01 No. GENERATOR (DIESEL) 60 KWH 01 No. JEEP/TRACTOR 50 HP 01 No. PUMPS (ELEC.) 7.5 L/MN 01 No. WATER TANKER 20000 LITRE 01 No.	

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)	22-JUN-21			
MCDR17	Rule 26(2)	22-JUN-21			
MCDR17	Rule 33	22-JUN-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines