

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

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-63/NGP

Mine code : 40MPR01063

- (i) Name of the Inspecting : **K014**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 03-MAR-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MIRAGPUR (24.288 HA.)**
- (b) **Registration NO.** :
- (c) Category : A Other Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : MIRAGPUR
Taluka : WARASEONI
Post office : MIRAGPUR
Pin Code :
FAX No. : 07122543352
E-mail : dprai.mines@gmail.com
Phone : 07122522724
- (f) Police Station :
- (g) First opening date : 01-JAN-11
- (h) Weekly day of rest : SUN
2. Address for : 10, EAST HIGH COURT ROAD,
correspondance NEW RAMDASPETH
NAGPUR - 481449
3. (a) Lease Number : MPR2559
(b) Lease area : 24.29
(c) Period of lease : 20
(d) Date of Expiry : 02-JUL-26
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the
Lessee : M/S D. P. RAI
10, EAST HIGH COURT ROAD,
NEW RAMDASPETH, NAGPUR (MS)
NAGPUR MAHARASHTRA
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	06 Core Bore holes	Nil	Violation pointed out for the same under rule 11(1) of MCDR-2017.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Exploration under G-2 axis - 4.61 Hect. Exploration under G-3 axis - 1.14 Hect. Unexplored area - 18.538 Hect.	Exploration was not done as per previous approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.
1e	Balance reserve as on 01/04/20		Balance Reserved as on 01/04/2020: 122 - 11.17 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The formation of the area belongs to Mansar formation of Sausar Group of Mesoproterozoic in age. General litho stratigraphic units are; Soil mixed with Murum 3-4 meters, Mica Schist, Manganese ore with Gondite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Eastern part of lease area to western lease boundary up to 330 m RL depth.	No mine development was carried out in the previous approved period.	Violation pointed out for the same under rule 11(1) of MCDR-2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	No mine development was carried out in the previous approved period.	Violation pointed out for the same under rule 11(1) of MCDR-2017.
2c	Stripping ratio or ore to OB ratio	1: 1.1	NIL	Violation pointed out for the same under rule 11(1) of MCDR-2017.
2d	Quantity of topsoil generation in m3	29853 m3	NIL	Violation pointed out for the same under rule 11(1) of MCDR-2017.
2e	Quantity of overburden generation in m3	33949 m3	NIL	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			No mine development was carried out in the previous approved period.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	79590 Tonnes	104 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	95%	NIL	
3d	Quantity of mineral reject generation	Not proposed	NA	

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	Manual	Manual	
3j	Provision of drilling and blasting in mineral benches	Yes	Nil	No mine development was carried out in the previous approved period.
3k	Provision of mining machineries in mineral benches	Yes	Nil	No mine development was carried out in the previous approved period.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	No mine development was carried out in the previous approved period.	
3m	Total area covered under excavation/pits	2.67 Hect	0.418 Hect	No mine development was carried out in the previous approved period.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.1	NIL	No mine development was carried out in the previous approved period.
3o	Total area put in use under different heads at the end of year	3.43 Hect	0.438 Hect	No mine development was carried out in the previous approved period.

3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 15064 T 2016-17 - 68572 T 2017-18 - 58432 T 2018-19 - 39602 T 2019-20 - 79590 T	-	2015-16 - NIL 2016-17 - 328 T 2017-18 - 1231 T 2018-19 - 1087 T 2019-20 - 104 T
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3q	General remarks of inspecting officers on method of mining etc.	No mine development was carried out in the previous approved period.
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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)	YES	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.
4b	Location of topsoil, OB and mineral reject dumps	Yes	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.
4c	Number of dumps within lease area and outside of lease area	THREE	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WITH IN UPL	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.
4e	Number of active and alive dumps.	THREE	NIL	
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	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	ONE	ONE	
4k	Specific comments of inspecting officer on waste dump management			No top soil, OB or Mineral reject generated in the RY 2019-20 as per provided records.

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 of mineral	NIL	Mine development was not done in the RY 2019-20.
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)	Not proposed	NA	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No top soil, OB or Mineral reject generated in the RY 2019-20 as per proposal of approved document.

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.	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	Not proposed	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	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)Afforestati on 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.	Not proposed	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.15 Hect	NIL	Plantation not done as per proposal. Violation pointed out under rule 11(1) of MCDR-2017.
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	NA	
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	Grade wise sorting in the lease area 10% to 46%	Grade wise sorting in the lease area 10% to 46%	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	10% to 46%	10% to 46%	
7d	Any beneficiation process at mines .	Manual	Manual	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting of the ore is proposed for grade wise segegration of the ore.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	NIL	No top soil removed in the RY 2019-20.
8b	Concurrent use or storage of topsoil	Yes	NIL	No top soil removed in the RY 2019-20.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per proposal of approved document.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	NIL	No top soil, OB or Mineral reject generated in the RY 2019-20 as per proposal of approved document.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation was proposed in the 1500 sq metre area	NIL	Plantation was not done in the approved period. Violation pointed out for the same.
8g	Survival rate	80%	NIL	Plantation was not done in the approved period. Violation pointed out for the same.
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			Plantation was not done in the approved period. Violation pointed out for the same.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	MR of Apr-19 to Mar-20 have been submitted and AR of 2019-20 has been submitted.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	MINING ENGINEER - SH. VS CHANDE MINE GEOLOGIST - MR GUPTA	Appointment letter of Mining Engineer and Geologist is not submitted in prescribed form at this office. Violation pointed out for the same under rule 55 of MCDR-2017
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Covered under current working - 1.5 Hect	
9d	Scrutiny of Annual return on afforestation	Yes	NIL	Plantation not done in the RY 2019-20.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL	Mine development not done in the RY 2019-20.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Open Cast Workings - 104 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Below 25% Mn - 3300.00 25% to below 35% Mn - 5700.00	
9h	Scrutiny of Annual return on fixed assets	Yes	1.5 Lakhs	
9k	Scrutiny of Annual return on mining machineries	Yes	NIL	

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)	02-JUN-21			
MCDR17	Rule 26(2)	02-JUN-21			
MCDR17	Rule 33	02-JUN-21			
MCDR17	Rule 55(1) (1	02-JUN-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines