

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

**MCDR inspection REPORT**

**Nagpur regional office**

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

**Mine code :** 40MPR01063

- (i) Name of the Inspecting : **C005** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Himanshu Churhe (Geologist); V.S. CHANDE (Mine Manager)  
Official with  
Designation
- (iv) Date of Inspection : 08-NOV-22
- (v) Prev.inspection date : 24-SEP-13

**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 correspondance** : 10, EAST HIGH COURT ROAD,  
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 : MP review under 17(1) MCR 2016 30-JUL-21  
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	Nil	
1b	Exploration over lease area for geological axis 1 or 2	26 boreholes proposed	Nil	Violation pointed out for the same under rule 11(1) of MCDR-2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Nil	
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.	
1e	Balance reserve as on 01/04/20		122-379904.28 t	
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.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Eastern part of lease area to western lease boundary	Eastern part of lease area to western lease boundary	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed	NA	
2c	Stripping ratio or ore to OB ratio	1: 0.85	1: 1.45	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	3449	1980m	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	Only 1358 T of ROM achieved against the proposal of 4020 T for the year 2021-22. Only 1980m3 of waste reported against the proposal of 3449 m3 of waste generation for the year 2021-22. Violation pointed out for the same under rule 11(1) of MCDR-2017.
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	UG working proposed	UG working done	
3b	Quantity of ROM mineral production proposed	4020 T	1358 T of ROM	
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	75	50	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	9.80 % as per AR	
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	NA	NA	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	UG workings proposed	UG workings done	
3k	Provision of mining machineries in mineral benches	UG workings proposed	UG workings done	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	Not applicable as UG workings is done	
3m	Total area covered under excavation/pits	2.67 Hect	1.395	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.85	1:1.45	
3o	Total area put in use under different heads at the end of year	3.43 Hect	2.07 ha	
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	
3q	General remarks of inspecting officers on method of mining etc.			UG method of mining being carried out.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dump proposed	OB dump maintained	
4b	Location of topsoil, OB and mineral reject dumps	Yes	As per proposal	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	01	01	
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.	NA	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			Only 1980m3 of waste reported against the proposal of 3449 m3 of waste generation for the year 2021-22. Hence, violation pointed out.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of mineral proposed	Full extraction of mineral adopted	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not mature enough to start backfilling process.

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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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	Nil	100 nos	
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
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)	Yes	Done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Number of trees planted during the year 100 nos with a Survival rate in percentage 60.

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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.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	10% to 46%	10% to 46%	
7d	Any beneficiation process at mines	Not proposed	Not adopted	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process in mines adopted.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil proposed	Nil	

8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dump proposed	OB dump maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
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)	Not proposed	Number of trees planted during the year= 100 nos.	
8g	Survival rate	Not proposed	60 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed	Water sprinkling done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty of the lease is very moderate and needs improvement.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	MR and AR online submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager VS CHANDE Mining Engineer in charge VS CHANDE Geologist in charge Himanshu Churhe
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 1.395 1.395 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.030 0.030 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.682 0.682
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 100 nos (ii) Survival rate in percentage 60 nos
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral Rejects generated with grades (tonnes) a. Quantity 50 b. Grade 9.80

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( MANGANESE ORE ) Grades (% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Below 25% Mn 15.030 767.000 765.740 16.290 5031.00 (b) 25% to below 35% Mn 17.690 487.000 499.650 5.040 11052.00 (c) 35% to below 46% Mn 11.660 2.000 0.000 13.660 15080.00
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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( MANGANESE ORE ) Grades (% of Mn content) Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Below 25% Mn 15.030 767.000 765.740 16.290 5031.00 (b) 25% to below 35% Mn 17.690 487.000 499.650 5.040 11052.00 (c) 35% to below 46% Mn 11.660 2.000 0.000 13.660 15080.00
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 700000
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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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