

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

**MCDR inspection REPORT**

**Nagpur regional office**

**Mine file No :** MP/BGT/MN-138A/NGP

**Mine code :** 40MPR01038

- (i) Name of the Inspecting : **SQ32** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 12-DEC-19
- (v) Prev.inspection date : 27-FEB-15

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PANDARWANI (10.58H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : BALAGHAT  
Village : PANDARWANI  
Taluka : WARASEONI  
Post office : MIRAKPUR  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 02-AUG-00
- (h) Weekly day of rest : SAT
2. Address for : M/s D.P.Rai & Co., 10 , EAST HIGH COURT ROAD,  
correspondance NANHAKA, RAMDASPETH,  
NAGPUR- 440 010
3. (a) Lease Number : MPR0655
- (b) Lease area : 4.28
- (c) Period of lease :
- (d) Date of Expiry : 31-MAR-20
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 :

Owner : M/s D.P.Rai & Co.  
10, East High Court Road,  
New Ramdaspath, Nagpur  
Distt. Nagpur (MS) NAGPUR  
MAHARASHTRA  
Phone:  
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 04-AUG-04  
Plan/Scheme of Mining

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

## Exploration :

| Sl.No. | Item  | Proposals       | Actual work | Remarks   |
|--------|---|-----------------|-------------|---|
| 1a     | Backlog of previous year  | na              | na          |   |
| 1b     | Exploration over lease area for geological axis 1 or 2              | four bore holes | not done    |   |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | na              | na          |   |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | NA              | Na          |   |
| 1e     | Balance reserve as on 01/04/20                                      | as on 1/04/2019 | 111-11659T  | violation issued for not carrying out exploration as per proposal.as per old workings ,there is only one defined ore body extending from boundary to next contiguous lease.other areas are mines for float ore upto 1.5 mtr only. |

## Development :

| Sl.No. | Item   | Proposals                          | Actual work             | Remarks  |
|--------|--|------------------------------------|-------------------------|--|
| 2a     | Location of development w.r.t.lease area                       | souththern limb of lease.          | southern limb of lease. |  |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | NA                                 | na                      | only float ore mining upto 1.5 mtr from surface. |
| 2c     | Stripping ratio or ore to OB ratio                             | 9650m3/4620 T,waste: finished ore. |                         |  |

|    |   |      |             |  |
|----|---|------|-------------|--|
| 2d | Quantity of topsoil generation in m3  | na   | no top soil |  |
| 2e | Quantity of overburden generation in m3   | 9650 | 7688        |  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |      |             | float ore mining is done in the area. only upto 1.5 depth. material of 1.5 mtr is dug , searched , spread for ore. around 15% is ROM. rest waste is simetaneously backfilled in same area. |

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#### Exploitation:

| Sl.No. | Item  | Propasals               | Actual work             | Remarks |
|--------|---|-------------------------|-------------------------|---------|
| 3a     | Number of pit proposed for production                             | 01                      | 01                      |         |
| 3b     | Quantity of ROM mineral production proposed                       | 5775                    | ---                     |         |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 4620 t                  | 3559                    |         |
| 3d     | Quantity of mineral reject generation                             | 165m3                   |                         |         |
| 3e     | Grade of mineral rejects generation and threshold value declared. | less than 10 Mn, 10% Mn | less than 10 Mn, 10% Mn |         |
| 3f     | Quantity of sub grade mineral generation.                         | 577.5t                  |                         |         |
| 3g     | Grade of sub grade mineral generation                             | 10-20% mn               | 10-20%mn                |         |

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|    |  |  |   |
|----|--|--|---|
| 3h | Manual /<br>Mechanised<br>method adopted<br>for segregating<br>from ROM  | manual sorting                               | manual sorting                            |
| 3i | Any analysis or<br>beneficiation<br>study proposed<br>and carried out<br>for sub grade<br>mineral and<br>rejects.      | no   | no  |
| 3k | Provision of<br>mining<br>machineries in<br>mineral benches  | yes.pickaxe,cr<br>owbar,trucks               | pickaxe,crowbar,trucks                    |
| 3l | Whether height<br>of benches in<br>overburden and<br>mineral suitable<br>for method of<br>mining proposed<br>in MP/SOM | upto 1.5 mtr<br>pit,float ore<br>mining only | upto 1.5 mtr pit,float<br>ore mining only |
| 3m | Total area<br>covered under<br>excavation/pits   | 2.89 hect                                    | 2.3 hect                                  |
| 3n | Ore to OB ratio<br>for the pit/mine<br>during the year.  | 9650M3/4620 T                                | 7280/3559 T                               |
| 3o | Total area put<br>in use under<br>different heads<br>at the end of<br>year   | 2.89 hect-<br>pit,.06 road                   | 2.3 pit,.06 road                          |
| 3p | Production of<br>ROM mineral<br>during the last<br>five year period<br>as applicable                                   | 18-19-4620t                                  | 18-19-3559t                               |

|    |   |   |
|----|---|---|
| 3q | General remarks of inspecting officers on method of mining etc. | float ore is mined in the area. material of 1.5mtr depth is dug , searched, spread for ore. 15% of volume is ore. waste is backfilled. ore is taken for processing. |
|----|---|---|

#### Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals        | Actual work      | Remarks                                     |
|--------|--|------------------|------------------|---|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | na               | na               | no waste dumping- simultaneous backfilling. |
| 4b     | Location of topsoil, OB and mineral reject dumps                   | na               | na               |   |
| 4c     | Number of dumps within lease area and outside of lease area        | na               | na               |   |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | no dumps created | no dumps created |   |
| 4e     | Number of active and alive dumps.                                  | NA               | NA               |   |
| 4f     | Number of dead dumps.  | NA               | NA               |   |
| 4g     | Number of dumps established.                                       | NA               | NA               |   |
| 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        | NA | NA |  |
| 4k | Specific comments of inspecting officer on waste dump management |    |    | NO DUMPS ARE CREATED.WASTE IS SIMETANEOUSLY BACKFILLED . |

#### 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. | FLOAT ORE MINING UPTO 1.5 MTR | FLOAT ORE MINING UPTO 1.5 MTR          |   |
| 5b     | Area under backfilling of mined out area  | 7333M2                        | 7330M2                                 |   |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | NO TOP SOIL                   | WASTE IS BACKFILLED IN PIT.NO TOP SOIL |   |
| 5d     | Total area fully reclaimed and rehabilitated  | NIL                           | NIL                                    |   |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    |                               |  | THE AREA IS SIMELTANEOUSLY BACKFILLED WITH WASTE FROM FLOAT ORE 85% OF TOTAL VOLUME |

#### 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).                               |                    | no   |   |
| 6b | Area available for rehabilitation (ha) .   | nil                | nil  |   |
| 6c | afforestation done (ha).   | nil                | nil  |   |
| 6d | No. of saplings planted during the year  | na                 | na   |   |
| 6g | Cost incurred on watch and care during the year  | na                 | na   | no proposals under worked out benches category. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D |                    |      | 1.43 old pit,7333m2 current                     |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | 7333m2 current pit | 7330 | preseent pit simeltaneouly backfilled.          |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area          | na                 | na   |   |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | np                 | np   |   |



|    |   |     |      |  |
|----|---|-----|------|--|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.          | na  | na   | only backfilling of minied out area is done simeltaneously in this category.                                   |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                          | np  | na   |  |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | np  | na   |  |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | np  | nil  |  |
| 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. |     |      | simetaneous backfilling is done in mineout area upto depth of 1.5 mtr .waste is 85% of total volume excavated. |

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Mineral Conservation:

| Sl.No. | Item   | Propasals     | Actual work   | Remarks |
|--------|--|---------------|---------------|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area | GRADE SORTING | GRADE SORTING |         |

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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.  | (a) Below 25% Mn<br>(b) 25% to below 35% Mn<br>(c) 35% to below 46% Mn | (a) Below 25% Mn<br>(b) 25% to below 35% Mn<br>(c) 35% to below 46% Mn |   |
| 7d | Any beneficiation process at mines   | no   | no   |   |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues |  |  | float mining done. grade sorting done with sizing, jigging sieving. |

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**Environment:**

| Sl.No. | Item  | Propasals         | Actual work          | Remarks |
|--------|---|-------------------|----------------------|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | na-no top soil    | no top soil          |         |
| 8b     | Concurrent use or storage of topsoil  | no top soil       | no top soil          |         |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                            | no dumps proposed | no dumps made        |         |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | yes               | done. simeltaneoulsy |         |

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|    |   |                       |             |   |
|----|---|-----------------------|-------------|---|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | yes                   | being done  |   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | not given.no proposal | no proposal |   |
| 8g | Survival rate   | na                    | na          |   |
| 8h | Water sprinkling on roads to control airborne dust  | yes                   | done        |   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          |                       |             | some plants can be seen around mines periphery. |

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Compliance of Rule 45:

| Sl.No. | Item  | Propasals  | Actual work        | Remarks |
|--------|---|--|--------------------|---------|
| 9a     | Status of submission of Monthly and Annual returns                                  | done   | done               |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer in charge VS Chandu Geologist in charge Mr Gupte | information given. |         |

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- 9d Scrutiny of Annual return on afforestation (i) Number of trees planted during the year 100  
(ii) Survival rate in percentage 20.00
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) 4.2(B) (ii) no rejects generated.  
Mineral Rejects generated with grades (tonnes)  
a. Quantity 0  
b. Grade 0  
  
4.2(B) (ii)  
Mineral Rejects generated with grades (tonnes)  
a. Quantity --  
- 0  
b. Grade ----  
0
- 9f Scrutiny of Annual return on ROM stock and/or graded ore graded ore stock:1145.420  
  
(a) Below 25% Mn 896.255  
(b) 25% to below 35% Mn 574.360  
(c) 35% to below 46% Mn 334.630  
(d) 46% Mn and above 0.000  
ROM stock-

|    |   |  |  |
|----|---|--|--|
| 9g | Scrutiny of<br>Annual return on<br>sale value, Ex.<br>Mine price and<br>production cost | (a) Below 25%<br>Mn 4135.00<br>(b) 25% to<br>below 35% Mn<br>7032.00<br>(c) 35% to<br>below 46% Mn<br>17172.00 ,<br>(d) 46% Mn and<br>above 0.00<br>sale price and<br>exmine price<br>are same., COP-  |  |
| 9h | Scrutiny of<br>Annual return on<br>fixed assets   | fixed<br>assets=2742037<br>depreciation=3<br>70073   |  |
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries                                | OTHER HEM<br>MACHINERY<br>0.000 Non<br>Electrical<br>OTHERS (NON-<br>ELEC.) 0.000<br>Non Electrical<br>PUMPS (ELEC.)<br>12.500 L/MN<br>Electrical<br>AIR COMPRESSOR<br>0.000 CUM/MN<br>Non Electrical<br>OTHER HEM<br>MACHINERY<br>0.000 Non<br>Electrical | the list of machiery<br>used is gigen.it is<br>category b mines. |

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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 |
| MCDR17             | Rule 11(1) | 13-JAN-20     |                     |           |               |
|                    | Rule 28(1) | 13-JAN-20     |                     |           |               |
|                    | Rule 26(1) | 13-JAN-20     |                     |           |               |

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines