

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

**MCDR inspection REPORT**

**Nagpur regional office**

**Mine file No :** MP/BGT/MN-38/NGP

**Mine code :** 40MPR01031

- (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 : 13-DEC-19
- (v) Prev.inspection date : 01-OCT-13

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **CHAKEHATI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : BALAGHAT  
Village : CHAKEHATI  
Taluka : WARASEONI  
Post office : TIRODI  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 01-DEC-70
- (h) Weekly day of rest : MON
2. Address for :  
correspondance :
3. (a) Lease Number : MPR1800
- (b) Lease area : 18.35
- (c) Period of lease : 20
- (d) Date of Expiry : 10-NOV-20
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : M/s D.P.Rai  
10, East High Court Road  
Ramdaspath, Nagpur 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	:	Renewal under rule 22 MCR1960	17-AUG-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16-MAR-06
		Mining Scheme rule 12 MCDR1988	11-OCT-12

## 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	G1,11BH	done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	16.2 LAKH	12 .4 apprx.,	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserve as on 01/04/20		121-2502,111-17801 as 01/04/2019	
1f	General remarks of inspecting officers on geology, exploration etc			It belongs to sauser series, consists of quantities, calcipyres, hornblends. These have mn ore ore bodies.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No A	Pit No A	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES, 2 in each of 3m X 3m in ore and waste	YES, 2 in each of 3m X 3m	
2c	Stripping ratio or ore to OB ratio	1:46.21,0b:ore ,ton: ton	1:41.2 ob: ore,ton: ton	ore: waste
2d	Quantity of topsoil generation in m3	na	na	no soil separate

2e	Quantity of overburden generation in m3	62,066 cu.m	42,394 cu.m	stripping ratio is closely done
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is well developed by benching.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01, pit A	01, pit A	
3b	Quantity of ROM mineral production proposed	2683	2058	
3c	Recovery of sailable/usable mineral from ROM production	YES	YES	
3d	Quantity of mineral reject generation	172	NA	
3e	Grade of mineral rejects generation and threshold value declared.	LESS THAN 10%	NA	
3f	Quantity of sub grade mineral generation.	595	----	
3g	Grade of sub grade mineral generation	10-14%	10-14%	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

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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	Yes	being done	Jackhammer
3k	Provision of mining machineries in mineral benches	Tippers	Yes	Mines operation done
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes suitable	yes suitable	
3m	Total area covered under excavation/pits	4.3 ha	4.2 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 46.21	1:41.2	
3o	Total area put in use under different heads at the end of year	PIT 4.3, DumpP- 6.83, Infrastructure .0128	PIT 4.3, Dump- 6.83, Infrastructure 0.1218	
3q	General remarks of inspecting officers on method of mining etc.			Pit is well developd in open cast. Dumping is done at temporary dumps

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4b	Location of topsoil, OB and mineral reject dumps	No top soil OB+Mineral reject backfilling	backfilling	

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4c	Number of dumps within lease area and outside of lease area	05+03 temporary	05+03 temporary	Three temporary dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside ultimate pit	outsid ultimate pit	
4e	Number of active and alive dumps.	05	05	
4f	Number of dead dumps.	-	-	
4g	Number of dumps established.	05	05	
4h	Whether Retaining wall or garland drain all along dumps are there.	Toe drain	Toe drain	drain is made along dump
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			There are temporary dumps made. some plantation is done on old dumps

#### 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.	till planned depth	till planned deppth	old pits as per manual
5b	Area under backfilling of mined out area	nil sq. m	nil sq. m	no backfilling planned in this year.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	No top soil in this year.otherwise stored and used.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is done in some area in the mines.barrier plantatation/other plantatation can be seen.

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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).	NO	NO	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	na	
6g	Cost incurred on watch and care during the year	NA	NA	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	9007m2 HECT		
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	no plan in this year	not done	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	200 sq. m	not done	violationn given
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	na	nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	being done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling is done in old pits.

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**Mineral Conservation:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise	grade wise	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	Mn < 25 %, Mn - 25% to 35	Mn > 25 %, Mn - 25% to 35	
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Create sorting of ore done by breaking and picking for better markebelity

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA,not in this year	NA	
8b	Concurrent use or storage of topsoil	not in this year,storage and use,	storage and use.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	maintained	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes,	Yes	in previous years
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes, 500, 20 year	provided, nil	500 plants have been planted in past.
8h	Water sprinkling on roads to control airborne dust	yes	being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			some barrier plantation has been done along periphery of Mines. plantation can be seen on old dumps

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	not given	violation given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) 5.000 (iv) Used for waste disposal 3.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 3.000		Information given
9d	Scrutiny of Annual return on afforestation	Information given-100 trees.	Violation given/not observed in mines.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil,nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given Grade Ore 25 Mn - 827.370  25 - 35 Mn - 698.520, ROM stock- 407.430		Information given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production not given Ex mine price 6023 - Mn 25 - 35%	Cost of production not given	
		3564 - 25 Mn-35%		

9k	Scrutiny of Annual return on mining machineries	OTHERS (ELEC.) 0.000 1 Non Electrical Opencast OTHERS (NON- ELEC.) 0.000 1 Non Electrical Opencast JEEP/TRACTOR 35.000 HP 1 Non Electrical Opencast PUMPS (ELEC.) 40.000 L/MN 2 Non Electrical Opencast ELEC. MOTOR 0.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 60.000 1 Non Electrical Opencast	yes, the list is given
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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
Rule 28 (1)	14-JAN-20	09-MAR-20			
Rule 26 (1)	14-JAN-20	09-MAR-20			
Rule 46	14-JAN-20				
MCDR17 Rule 31 (4)	14-JAN-20	09-MAR-20			

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines