

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

**MCDR inspection REPORT**

**Nagpur regional office**

**Mine file No :** MP/BGT/MN-54/NGP

**Mine code :** 40MPR01056

- (i) Name of the Inspecting : **G007** ) **PRASHAY GAJBHIYE**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Brajkishore Rahangdale Geologist  
Official with  
Designation
- (iv) Date of Inspection : 08-NOV-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **HATODA MANGANESE ORE**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : BALAGHAT  
Village :  
Taluka : TIRODI  
Post office :  
Pin Code :  
FAX No. :  
E-mail : sanjaykasal097@gmail.com  
Phone : 9425800763
- (f) Police Station :
- (g) First opening date : 01-APR-10
- (h) Weekly day of rest :
2. Address for :  
correspondance
3. (a) Lease Number : MPR2553  
(b) Lease area : 6.99  
(c) Period of lease : 20  
(d) Date of Expiry : 06-OCT-28
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the  
Lessee : SMT. SHAKUNTALA KASAL  
BALAGHAT MADHYA PRADESH  
Phone:  
FAX :
6. Date of approval of Mining : Fresh under rule 22 MCR1960 26-JUN-08  
Plan/Scheme of Mining : Modif.of approved Mining Plan 11-FEB-11  
Mining Scheme rule 12 MCDR1988 27-SEP-13

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Lapse Period	Lapse Period	Not valid document
1b	Exploration over lease area for geological axis 1 or 2	Number of 8 bore well was proposed.	Violation letter issued on rule 11(1).	Lower Benches are submerged in water due to heavy rain.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	47070m2	Nil	
1e	Balance reserve as on 01/04/20	38880 (T.)	38880 (T.)	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western	Western	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Numbers of 6 benches	Numbers of 5 benches	
2c	Stripping ratio or ore to OB ratio	1:10	1:0.7	
2d	Quantity of topsoil generation in m3	1728m3	Nil	
2e	Quantity of overburden generation in m3	11109m3.	7935 m3.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Pit-1 (Linear vein type) developed.
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-1	Pit-1	
3b	Quantity of ROM mineral production proposed	3460T	2402T	
3c	Recovery of sailable/usable mineral from ROM production	2768 (T)	1921.255T	
3d	Quantity of mineral reject generation	Not Proposed	Not Applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable	
3g	Grade of sub grade mineral generation	Not proposed	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 applicable	Not applicable	

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3j	Provision of drilling and blasting in mineral benches	Yes	As per proposal.	
3k	Provision of mining machineries in mineral benches	Yes	As per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1 to 7 m	Existing benches	
3m	Total area covered under excavation/pits	16464m2	15600 m2	Existing Pit
3n	Ore to OB ratio for the pit/mine during the year.	1:10	1:10	
3o	Total area put in use under different heads at the end of year	16464m2	15600 m2	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 4320T 2017-18 4320T 2018-19 Lapse period of RMP 2019-20 Lapse period of RMP 2020-21 2768T 2021-22 5536T	2016-17 2017-18 2018-19 of RMP 2019-20 of RMP 2020-21 2021-22	1588T 3441T Lapse period Lapse period 1921.25T Nil
3q	General remarks of inspecting officers on method of mining etc.	Mechanised mines		

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Topsoil- 1728m3 OB-10878m3 Waste= 230.66 m3	OB is 7935m3
4b	Location of topsoil, OB and mineral reject dumps	North East	North East
4c	Number of dumps within lease area and outside of lease area	03dumps.	03 dumps (within lease area.)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NA
4e	Number of active and alive dumps.	Numbers of 3dumps	Active 03 dump
4f	Number of dead dumps.	Nil	Not applicable.
4g	Number of dumps established.	Not Proposed.	Not applicable.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall = 1000m X 1.5m x 1.5m garland drain =950m X 0.5m x 1.0m	Retaining wall = 1000m X 1.5m x 1.5m garland drain =950m X 0.5m x 1.0m
4j	Number of settling ponds	Not proposed	Not applicable
4k	Specific comments of inspecting officer on waste dump management		There are 3 dumps present in the mining lease area. Soil, OB & Temp. Waste Rock Dumps towards Eastern side along BZ (Eastern block) of the lease area

## 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.	Not Proposed.	Not Applicable	
5b	Area under backfilling of mined out area	1584m2	Not work done.	Violation letter have been issued on 20/12/2022. under rule 11(1) & 26(2)
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes.	The top soil will be proposed for use in the mind out area.	
5d	Total area fully reclaimed and rehabilitated	not Proposed.	Not applicable.	

## 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).		Not Submitted. Violation letter issued on 20/12/2021 under rule 26(2).	
6b	Area available for rehabilitation (ha) .	0.1584Ha	0.1584Ha	
6c	afforestation done (ha).	1125m2	Plantation done.	Plantation done.
6d	No. of saplings planted during the year	110 saplings.	80 saplings planted during the year.	
6e	Cumulative no .of plants		125 saplings planted.	
6f	Any other method of rehabilitation	Not proposed	Not applicable	

6g	Cost incurred on watch and care during the year	Not proposed	Not applicable.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not proposed.	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Not applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	yes	yes
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	not applicable.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	yes	yes



6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	yes	yes	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not proposed	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed (Air & Noise Monitoring Station)	As per proposal.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is done

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	As per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Not proposed	Not proposed	

7e General remarks of inspecting officer on Mineral conservation and beneficiation issues No beneficiation unit.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed.	Not Applicable.	
8b	Concurrent use or storage of topsoil	Not Proposed.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes.	As per proposal	Eastern side
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes.	Used for Backfilling purpose.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed.	Not Applicable.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes.	Yes. 100 trees are planted.	

8g	Survival rate	60%	
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 is seen mine office and around mines area.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All Return submitted time to time	All Return submitted time to time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed Mining Engineer and Geologist and Manager	Appointed Mining Engineer Shree S Nagpure and Geologist Brajkishore Rahangdale.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		4.032 Hact. used given the annual return.	
9d	Scrutiny of Annual return on afforestation	yes	100Trees are planted.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Production ROM 1921.255 Ton. OB 7935 T.	Production ROM 1921.255 Ton. OB 7935 T.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	3134.529 Ton Closing stock in 2020-21	3134.529 Ton Closing stock .	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Price 5001.03 per ton to 18217 per ton	Sale Price 5001.03 per ton to 18217 per ton
9h	Scrutiny of Annual return on fixed assets	9852839 Rupees	9852839 Rupees
9k	Scrutiny of Annual return on mining machineries	Mechenised mine	Mechenised mine

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**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)	20-DEC-21	19-JAN-22				
MCDR17	Rule 26(2)	20-DEC-21	19-JAN-22				

**Date :**

**(PRASHAY GAJBHIYE)**

Indian Bureau of Mines