

**MCDR inspection REPORT**

**Nagpur regional office**

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

**Mine code :** 40MPR01056

- (i) Name of the Inspecting : **C005** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Brajkishore Rahangdale Geologist  
Official with  
Designation
- (iv) Date of Inspection : 22-DEC-22
- (v) Prev.inspection date : 08-NOV-21

**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 : HATHODA  
Taluka : TIRODI  
Post office :  
Pin Code : 481331  
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

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## 5. Name and Address of the

Lessee : SMT. SHAKUNTALA KASAL  
BALAGHAT MADHYA PRADESH  
Phone: 9425800763  
FAX :0761-4032247

6. Date of approval of Mining  
Plan/Scheme of Mining

: Fresh under rule 22 MCR1960	26-JUN-08
Modif.of approved Mining Plan	11-FEB-11
Mining Scheme rule 12 MCDR1988	27-SEP-13
Mining Plan rule 23 MCDR2017	14-OCT-20

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## 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	Nil	Nil	
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	Not specified	G2-6.985 ha	
1e	Balance reserve as on 01/04/20	Not specified	111-28080 T	
1f	General remarks of inspecting officers on geology, exploration etc			Manganese ore horizon mainly comprising of bands of manganese ore with Manganeferous quartzite are generally overlain by phyllite of mansar formation. The general trend of this formation in the area is NE-SW and at places NNE-SSW and the same is also the trend of the manganese ore body having 75° dip towards south eastern direction.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In Central part of the lease area	In Central part of the lease area	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed	Separate benches in overburden and already maintained	
2c	Stripping ratio or ore to OB ratio	1:4	Not applicable since Nil Ton of ROM is reported in AR 2021 against the proposal of 5536 T for the year 2021-22	Violation pointed out under Rule 11(1) of MCDR 2017
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	461.32 m3	172 m3	Violation pointed out 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 172 m3 of waste reported against the proposal of 461.32 m3 of waste generation for the year 2021-22. Hence, violation pointed out 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	01	01	
3b	Quantity of ROM mineral production proposed	5536 T	Nil	Violation pointed out under Rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	80%	NA	
3d	Quantity of mineral reject generation	Not proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

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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	Mechanised	NA.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Proposed	As per proposal	
3k	Provision of mining machineries in mineral benches	Proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Development & production is lagging behind approved proposals.	
3m	Total area covered under excavation/pits	Not specified	1.560 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:4	NA as no production done.	
3o	Total area put in use under different heads at the end of year	Not specified	3.832 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 4320T 2018-19 Lapse period 2019-20 Lapse period 2020-21 2768T 2021-22 5536T	2017-18 2018-19 2019-20 2020-21 2021-22	3441T Lapse period Lapse period 1921.25T Nil

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3q General remarks of inspecting officers on method of mining etc.

Nil Ton of ROM is reported in AR 2021 against the proposal of 5536 T for the year 2021-22. Also it is observed that Review of mining plan as required as per provision of sub-rule (1) of rule 17 of Minerals (Other than Atomic and Hydro Carbon Energy Minerals) Concession Rules, 2016 is not submitted till date. V Hence, violation pointed out under Rule 11(1) of MCDR 2017.

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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)	Separate dumping of OB proposed	Separate dumping of OB done	
4b	Location of topsoil, OB and mineral reject dumps	East portion of the lease	East portion of the lease	
4c	Number of dumps within lease area and outside of lease area	03	03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	

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4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	garland drain=180m X 0.7m x1.0m	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	garland drain=180m X 0.7m x1.0m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			03 OB dumps already present in the lease area.

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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.	NA	
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)	Not Proposed.	Nil	
5d	Total area fully reclaimed and rehabilitated	Not Proposed.	Not done	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured to carryout backfilling process.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not specified	PMCP report for the year 2021-22 not furnished.	Violation pointed out under Rule 26(2) of MCDR 2017
6b	Area available for rehabilitation (ha) .		PMCP report for the year 2021-22 not furnished.	Violation pointed out under Rule 26(2) of MCDR 2017
6c	afforestation done (ha) .	Not proposed	Nil	
6d	No. of saplings planted during the year	Not proposed	50 nos	
6e	Cumulative no .of plants	Not specified	Details not available.	
6f	Any other method of rehabilitation	Nil	Nil	
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	

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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	As per proposal.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report for the year 2021-22 not furnished. Hence, violation pointed out under Rule 26(2) of MCDR 2017.

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**Mineral Conservation:**

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	Not done. Nil Ton of ROM is reported in AR 2021 against the proposal of 5536 T for the year 2021-22.	Violation pointed out under Rule 11(1) of MCDR 2017.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not specified	Nil	

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7c	Different grade of mineral sorted out at mines.	Not specified	Nil	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Nil Ton of ROM is reported in AR 2021 against the proposal of 5536 T for the year 2021-22. Violation pointed out under Rule 11(1) of MCDR 2017 and hence no comments on Mineral conservation & beneficiation issues.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden proposed	Separate dumps for overburden maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not done	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Not available	
8g	Survival rate	Not given	50%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area 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	Yes	MR and AR submitted online but with discrepancies.	Violation pointed out under Rule 45(7) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Manager Shri. S.Nagpure Mining Engineer in charge Shri. S.Nagpure Geologist in charge Shri. Brajkishor Rahangdale	

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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 1.560 1.560 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 2.232 2.232 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.220 0.220 (vi) Other Purpose (0) 0.000 0.020 0.020	
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 50 (ii) Survival rate in percentage 50.00	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral Rejects generated with grades (tonnes) a. Quantity 103 b. Grade 8	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	In AR, Part - VI S.No.1, Nil Production is given but in S.No 2 gradewise production is given which is contradictory. Also in Part - VII production is shown as Nil.	Violation pointed out under Rule 45(7) of MCDR 2017.

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( MANGANESE ORE )</p> <p>Grades (% of Mn content)</p> <p>Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Despatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in . Per Tonne)</p> <p>(a) Below 25% Mn 9.000 229.103 211.853 26.250 2660.23</p> <p>(b) 25% to below 35% Mn 61.000 274.254 329.724 5.530 5904.81</p> <p>(c) 35% to below 46% Mn 41.170 185.296 211.236 15.230 11555.59</p> <p>(d) 46% Mn and above 2.710 0.000 2.7</p>	Violation pointed out under Rule 45(7) of MCDR 2017.
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 9831683	
9k	Scrutiny of Annual return on mining machineries	Given	<p>Type of machinery</p> <p>Capacity of each unit</p> <p>No.of units</p> <p>Electrical/ Non-Electrical (specify)</p> <p>Used in opencast/ underground (specify)</p> <p>DUMPER 25.000 TONNE 0</p> <p>Non Electrical Opencast PUMPS (ELEC.) 2000.000</p> <p>L/MN 4 Electrical Opencast</p>	

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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