

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/BHD/MN-33/NGP

**Mine code :** 40MSH05001

- (i) Name of the Inspecting : **G002** ) **OM PRAKASH GOPAL**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : U.S. Bhati, Agent  
Official with  
Designation
- (iv) Date of Inspection : 28-JUN-23
- (v) Prev.inspection date : 20-SEP-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **CHIKLA**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Underground
- (e) Postal address :  
State : MAHARASHTRA  
District : BHANDARA  
Village : SITASAONGI  
Taluka : TUMSAR  
Post office : SITASAUNGI  
Pin Code :  
FAX No. : 07122592073  
E-mail : mm.ch@moil.nic.in  
Phone : 07183 - 220231
- (f) Police Station : Chikla
- (g) First opening date : 01-JUL-62
- (h) Weekly day of rest : FRI
2. Address for : AT - SITASAONGI,  
correspondance : TAH.: TUMSAR  
DISTT.: BHANDARA (MS) - 441 920
3. (a) Lease Number : MSH0062
- (b) Lease area : 150.64
- (c) Period of lease : 50
- (d) Date of Expiry : 30-JUN-42
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : M/S MANGANESE ORE (INDIA) LTD.  
 3, MOUNT ROAD EXTENSION  
 POST BOX NO. 34, NAGPUR  
 (MP) NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

Owner : DEEPANKAR SHOME  
 1-A, MOIL BHAVAN KATOL ROAD  
 NAGPUR NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

Agent : RAJESH BHATTACHARYA  
 DONGRI BUZURG MINE BHANDARA  
 BHANDARA BHANDARA  
 MAHARASHTRA  
 Phone:  
 FAX :

## Mining Engineer

Name : PRASHANT DAKRE, Full Time  
 Qualification :  
 Appointment/ :  
 Termination date

## Geologist

Name : SUDHANSHU CHAVAN, Full Time  
 Qualification : Msc Geology  
 Appointment/ :  
 Termination date

## Manager

Name : A. K. CHAUKSEY  
 Qualification :  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	30-MAY-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	22-JUL-08
		Mining Scheme rule 12 MCDR1988	02-MAY-13
		MP review under 17(1) MCR 2016	30-JUN-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	Two boreholes	Four Boreholes	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s MOIL Ltd	M/s MOIL Ltd	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire lease area has already been covered under G-1 in past. Explration is being done to prove depth continuity of ore body.
1e	Balance reserve as on 01/04/20	Balance Reserves as on 31/01/2022 : 1488942 tonnes (111); 434331 tonnes (121); 368355 tonnes (211) and 2598901 tonnes (222)	NIL	NIL
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	The Manganese horizon occurs at the stratigraphic contact of the Sitasaongi and Munsar Formations. Ore is associated with gondite. Entire lease area has already been explored under G1 level. There is proposal for drilling to prove depth continuity of ore zone .

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	For 2022-23, Underground development is proposed at - 170'L, -270'L, -370'L & - 470'L	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable as there is no proposal for opencast working.	NIL	NIL
2c	Stripping ratio or ore to OB ratio	Not applicable - as there is no proposal for opencast working.		NIL
2d	Quantity of topsoil generation in m3	Not applicable as there is no proposal for opencast working.	NIL	NIL
2e	Quantity of overburden generation in m3	Not applicable as there is no proposal for opencast working.	NIL	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	The mining operations are confined to the underground method of mining and there is no proposal for opencast mining.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Not applicable as there is no proposal for opencast mining.	NIL	Proposals confined to underground mining and there is no proposal for opencast mining.
3b	Quantity of ROM mineral production proposed	200000 Tonnes	179991 Tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as there is no proposal for reject generation.	Not applicable	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	Not applicable as there is no proposal for subgrade generation.	Not applicable	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing/scree ning and manual sorting	Mechanised crushing/screening and manual sorting	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Not done	NIL

3j	Provision of drilling and blasting in mineral benches	There is no proposal for opencast mining. For U/G mining operations it is is proposed to deploy jack hammer, cable bolting machene, stoper machene, and UDM.	Drilling equipments deployed as per proposal.	Proposals confined to underground mining and there is no proposal for opencast mining.
3k	Provision of mining machineries in mineral benches	Not applicable as there is no proposal for opencast mining. It is proposed that locomotive, LHD and SDL will be deployed for hauling and Jack hammer, cable bolting machene, stopper machene UDM will be deployed for drilling.	Mining machenaries are being deployed as per proposal.	Proposals confined to underground mining and there is no proposal for opencast mining.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable as there is no proposal for opencast mining.	Not applicable	Proposals confined to underground mining and there is no proposal for opencast mining.
3m	Total area covered under excavation/pits	Not applicable as there is no proposal for opencast mining.	NIL	Proposals confined to underground mining and there is no proposal for opencast mining.
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable as there is no proposal for opencast mining.	Not applicable	Proposals confined to underground mining and there is no proposal for opencast mining.

3o	Total area put in use under different heads at the end of year	Proposals confined to underground mining and there is no proposal for opencast mining. As per details in the approved mining plan area put to use at the beginning of plan period ie as on 1/4/2022 are as under: Area under excavation/ Pits: 10.47 ha, Mineral Storage: 1.41 Ha; OCF: 0.63 ha, Overburden/ Waste Dump: 6.95 Ha, Infrastructure : 8.95 ha; Roads: 3.39 ha, Railway: 2.81 ha, Township Area: 9.78 ha, Others: 0.1 ha; Total: 44.49 ha. There is no proposal for additional requirement during 2022-23	Working confined to underground mining and there is no change in area put to use during reporting period.	NIL
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3p	Production of ROM mineral during the last five year period as applicable	2018-19-180000 Tons 2019-20-180000 Tons 2020-21-180000 tons 2021-22-180000 tonnes 2022-23-200000 tonnes	2018-19-175609Tons 2019-20-179524 Tons 2020-21-171882 tons 2021-22-179974 tons 2022-23-179991 Tonnes	NIL
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	NIL

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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)	Proposals restricted to U/G mining and there is no such proposal for external dumping.	Generated wate are utilised for filling of voids created after extraction of ore thus there is no external dumping.	NIL
4b	Location of topsoil, OB and mineral reject dumps	No such proposal	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	Proposal restricted to U/G mining and there is no proposal for external dumping. As per approved RMP there are six ( 3 wate dump and 3 mineralised dumps) old and non active dumps inside the lease area.	Generated wate are utilised for filling of voids created after extraction of ore thus there is no external dumping during reporting period.	NIL

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no such proposal for external dumping	NIL	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	Six	Six	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal during reporting period	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	Generated waste are utilised for filling of voids created after extraction of ore thus there is no external dumping during reporting period.

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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.	There is no such proposal for backfilling.	Wasted generated due to development of Haulage Road and cross cuts are being utilised for filling of voids created after extraction of ore thus there is no external dumping during reporting period.	NIL
5b	Area under backfilling of mined out area	NIL	NIL	NIL

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal	Not done	NIL
5d	Total area fully reclaimed and rehabilitated	No such proposal	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	NIL

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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).	Annual Report of PMCP should be submitted on or before 1st of July every year for the preceding year.	Annual Report of PMCP in respect of 2022-23 has been submitted in time and correctly alongwith Annual Returns on 30/6/2023.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	2 ha	NIL
6e	Cumulative no .of plants	319979	NA	NA
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	NA	NA	NA

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	5000 saplings	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	NA	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring in core and buffer zone	Quarterly environmental monitoring done	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	NIL

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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 wise sorting	Grade wise sorting	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	NIL
7c	Different grade of mineral sorted out at mines.	-	Below 25% Mn grade, 25% to below 35% Mn grade and 35% to below 46% Mn grade	NIL
7d	Any beneficiation process at mines	Crushing sizing and sorting	Crushing sizing and sorting.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	NIL

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal.	NIL	NIL
8b	Concurrent use or storage of topsoil	No such proposal.	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal.	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal.	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Details on green belt development is not available in approved RMP. Furthes, proposal for the reporting period is NIL	5000 saplings planted during 2022-23.	NIL
8g	Survival rate	NA	NA	NIL
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	NIL

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	Mining activities destorts aesthtic beuty in an around mining areas. However, in case of Chikla mine entire mining operations are confined to underground methods of mining therefore, there is is no serious impact on the aesthtic beuty in an around mining this mine.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns shall be submitted before 10th of every month in respect of preceding moth. The Annual returns shall be submitted before 1st July every year in respect of preceding year.	Monthly Returns are being submitted in timely in online mode. Annual returns for the year 2022-23 was submitted in online mode on 30/6/2023.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineear: Sh. Akas Shahu', Geologist: Sh.Debnath Mohanta, Manger: Sh. V.M. Khedikar	Mines Manager, Mining Engineer and Geologist are in place.	NIL

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 10.7ha, (ii) Covered under current (O-C) Workings: 0.0 ha, (iii) Reclaimedrehabilitated : 0.0 ha, (iv) Used for waste disposal : 6.95 ha, (v) Occupied by plant, buildings, residential, welfare buildings and roads : 27.07 ha, (vi) Used for any other purpose (Green belt) : 3. 0 ha	Details on Land use pattern apperas to be in order.	NIL
9d	Scrutiny of Annual return on afforestation	5000 saplings planted during 2022-23	Details appear to be in order.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Generation of subgrade-mineral reject: NIL	There is no reject generation during reporting period.	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stocks :NIL Graded ore stocks: Below 25% Mn: 0.450 tonnes 25% to below 35% Mn: 172.710 tonnes 35% to below 46% Mn: 65.250 tonnes	Reported details are in order.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price of 25% to below 35% Mn: Rs. 6090.37/tonnes and of 35% to below 46% Mn: Rs. 12525.70/tonnes. Production cost Rs. 7460.48/tonnes.	Reported details are in order.	NIL
9h	Scrutiny of Annual return on fixed assets	Value of Fixed AssetsRs. 898057943	Financial aspects may not be commented upon.	NIL



9k	Scrutiny of Annual return on mining machineries	WINDING ENGINE (ELEC.) 422.000 KG: 1 no.;	Details appear to be in order.	Nil
		WINDING ENGINE (ELEC.) 250.000 KG :1 no;		
		GENERATOR (DIESEL) 1500.000 KWH :2 no;		
		GENERATOR (DIESEL) 500.000 KWH 1 no;		
		VENTILATION FAN 99999.000 CUM/H 3 no;		
		PUMPS (ELEC.) 2000.000 L/MN 9no;		
		TIPPER 9.000 CUM 6 no;		
		AIR COMPRESSOR 28.000 CUM/MN 9 no;		
		LOCOMOTIVE (NON-ELEC.) 3.000 TONNE 4 no;		
		EXPLOSSIVE VAN 1 no.		
		CRUSHER 3 NO;		
		CONVEYER BELT 5 NO;		
		FRONT END LOADER 1 NO.		

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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

**Date :**

**(OM PRAKASH GOPAL)**

Indian Bureau of Mines