

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN--2/NGP

Mine code : 40MSH14002

- (i) Name of the Inspecting : **G002**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : U.M. Bhujade, Agent
Official with
Designation
- (iv) Date of Inspection : 15-MAY-23
- (v) Prev.inspection date : 29-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BELDONGRI**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Underground
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : BELDONGRI
Taluka : PARSEONI
Post office : SATUK
Pin Code : 441106
FAX No. : N.A.
E-mail : N.A.
Phone : 07102 - 246160
- (f) Police Station : RAMTEK
- (g) First opening date : 01-JUL-62
- (h) Weekly day of rest : SAT
2. Address for : 3, MOUNT ROAD EXTENSION
correspondance : NAGPUR
3. (a) Lease Number : MSH0077
- (b) Lease area : 12.99
- (c) Period of lease : 50
- (d) Date of Expiry : 31-MAR-40

MSH0076
26.66
50
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 : A. V. MASADE
MUNSAR MINE RAMTEK NAGPUR
NAGPUR MAHARASHTRA
Phone:
FAX :

Mining Engineer

Name : SUDHIR PATHAK, Full Time
Qualification : AMIE
Appointment/ : 23-JUN-08
Termination date

Geologist

Name : M BHANSE, Full Time
Qualification : M.SC.
Appointment/ : 06-SEP-05
Termination date

Manager

Name : R.P.CHOUDHARY
Qualification : DIPLOMA IN MINING
Appointment/ : 17-APR-08
Termination date

6. Date of approval of Mining : Renewal under rule 22 MCR1960 29-APR-03
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 24-SEP-03

Mining Scheme rule 12 MCDR1988	23-JUL-08
Mining Scheme rule 12 MCDR1988	24-JUL-13
MP review under 17(1) MCR 2016	04-JUL-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	NIL	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal	NIL	NIL
1e	Balance reserve as on 01/04/20	Balance reserves as on 1/12/2021: 119828 tonnes (111) and 24568 tonnes (121)	NIL	NIL

1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	The manganese ore body of Beldongari mine occurs within the metasedimentary rocks of saussar group. The Mansar Formation which contains significant amount of manganese ore horizon associated with Gondite rocks is rich in Mica schist and muscovite biotite schist. In Beldongari mine, the ore body is of lenticular in shape with maximum thickness in central portion (upto 35 m). The ore body is plunging in south west direction at an average angle of 210
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The mining operations are confined to the underground method of mining and there is no proposal for opencast mining. Stope blocks are developed by driving winzes namely winze 2, winze 3 and winze 4 from 148 mrl to 122 mrl. Development Proposal for the year 2022-23 are: Haulage Road ((15m), Cross cuts (7 m) and Winze (3m) proposed.	U/G working as per proposal.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable as there is no proposal for opencast mining.	NIL	NIL
2c	Stripping ratio or ore to OB ratio	Not applicable as there is no proposal for opencast mining.	NA	NA
2d	Quantity of topsoil generation in m3	Not applicable as there is no proposal for opencast mining.	NIL	NIL
2e	Quantity of overburden generation in m3	Not applicable as there is no proposal for opencast mining.	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.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Not applicable as there is no proposal for opencast mining.	NA	NIL.
3b	Quantity of ROM mineral production proposed	18410 tonnes	4480 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	90%	As per proposal	NIL
3d	Quantity of mineral reject generation	1431 tonnes	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NA
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	NIL

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Not applicable as there is no proposal for opencast mining.	Not applicable	NIL
3k	Provision of mining machineries in mineral benches	Not applicable as there is no proposal for opencast mining.	Not applicable.	NIL
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.	NIL
3m	Total area covered under excavation/pits	Not applicable as there is no proposal for opencast mining.	NIL	NIL
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable as there is no proposal for opencast mining.	Not applicable.	NIL
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.	NA	NIL

3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 32000 tonnes 2019-20 - 30000 tonnes 2020-21 -30000 tonnes 2021-22 - 30000 tones 2022-23 - 18410 tonnes	2018-19 - 31921 tonnes 2019-20 - 26610 tonnes 2020-21 -14369 tonnes 2021-22 - 12625 tones 2022-23 - 4480 tonnes	-
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	NIL

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal restricted to U/G mining and there is no proposal for external dumping.	NIL	NIL
4b	Location of topsoil, OB and mineral reject dumps	Proposal restricted to U/G mining and there is no proposal for external dumping.	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.	NIL	NNIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposal restricted to U/G mining and there is no proposal for external dumping.	NIL	NIL
4e	Number of active and alive dumps.	NA	NA	NIL

4f	Number of dead dumps.	NA	NA	NIL
4g	Number of dumps established.	NA	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal restricted to U/G mining and there is no proposal for external dumping.	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	Proposal restricted to U/G mining and there is no proposal for external dumping.	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	The mining operations are confined to the underground method of mining and there is no proposal for waste dump management.

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.	Proposal restricted to U/G mining by over hand cut and fill methods and there is no proposal for Backfilling of exhausted pit.	As per proposal	NIL
5b	Area under backfilling of mined out area	NIL	NIL	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable as the mining operations are confined to the underground method of mining.	Not applicable	NIL
5d	Total area fully reclaimed and rehabilitated	Not applicable as the mining operations are confined to the underground method of mining.	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	Backfilling is not applicable as the mining operations are confined to the underground method of mining.

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.	Report of PMCP for the year 2022-23 submitted in online mode alongwith Annual Returns	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.5 ha	NIL	Violation letter issued for noncompliance of approved proposals.
6d	No. of saplings planted during the year	1000	NIL	Violation letter issued for noncompliance of approved proposals.

6e	Cumulative no .of plants	12600 (upto the end of previous block of five years)	NA	NIL
6f	Any other method of rehabilitation	None	None	NIL
6g	Cost incurred on watch and care during the year	NA	NA	NIL
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	Plantation of 1000 saplings along 7.5 m barrier zone.	Plantation not done	Violation letter issued for noncompliance of approved proposals.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Plantation over 0.5 ha area along 7.5 m barrier zone.	Plantation not done	Violation letter issued for noncompliance of approved proposals.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Not done	Violation letter issued for noncompliance of approved proposals.
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

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.	NA	Below 25% Mn grade, 25% to below 35% Mn grade and 35% to below 46% Mn grade	NIL

7d	Any beneficiation process at mines .	None	None	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal	Not applicable	NIL
8b	Concurrent use or storage of topsoil	No such proposal	Not applicable	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal	Not applicable	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposl	Not applicable	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposal for plantation of 1000 saplings over 0.5 ha area in 7.5 m barrier zone	Plantation not done.	Violation letter issued for noncompliance of approved proposals.
8h	Water sprinkling on roads to control airborne dust	The mining operations are confined to the underground method of mining and there is no proposal for opencast mining.	Not applicable	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 Beldongri mine entire mining operations are confined to underground method of mining therefore, there is is no serious impact on aesthtic beuty in an around mining areas.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns shall be submitted before 10th of every month in respect of preceding montha and Annual returns shall be submitted before 1st july every year in respect of preceding year.	Monthly Returns are being submitted in online mode in time and Annual returns for the year 2022-23 was submitted in online mode on 28/6/2023.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineear: Sh. Bhubneshwar Tung Geologist: Ms. Sneha Tiwari Manger: Sh. CRM Reddy	Mining Engineer and Geologist are in place.	NIL

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 0.0 ha, (ii) Covered under current (O-C) Workings: 0.0 ha, (iii) Reclaimed-rehabilitated : 7.05 ha, (iv) Used for waste disposal : 7.05 ha, (v) Occupied by plant, buildings, residential, welfare buildings and roads : 3.46 ha, (vi) Used for any other purpose (specify) Mineral Storage, Old Pits: 4.18 ha. (vii) Work done under progressive mine closure plan during the year 0.0 ha	Details on Land use pattern apperas to be in order.	NIL
9d	Scrutiny of Annual return on afforestation	Number of trees planted : NIL	It was proposed that 1000 salings will be planted along 7.5 m barrier zone in 2022-23. However, plantation not done as proposed.	Violation letter issued for noncompliance of approved proposals.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation : NIL	Reported details are in order.	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening stocks: NIL and closing stocks: NIL	Reported details on opening and closing stocks are in order.	NIL
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Graded Ore:

(a) Below 25%

Mn: Opening Stocks-859.947

tonnes and

Closing

Stocks-1042.9

tonnes

(b) 25% to below 35% Mn :

Opening

Stocks-0.370

tonnes and

Closing

Stocks-90.020

tonnes

(c) 35% to below 46% Mn :

Opening

Stocks-289.0

tonnes and

Closing

Stocks-112.62

tonnes

(d) 46% and above Mn :

Opening

Stocks-0

tonnes and

Closing

Stocks-0

tonnes

(e) Dioxide ore : Opening

Stocks-0

tonnes and

Closing

Stocks-0

tonnes

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price of : (a) Below 25% Mn: Rs.4591.55/tonnes (b) 25% to below 35% Mn : Rs.5899.86/tonnes (c) 35% to below 46% Mn : Rs.14468.46/tonnes	ROM production is less (4480 tonnes) than proposed production (18140 tonnes) during reporting period. Reported per ton production cost is more than Exmine price which indicates that the mine is running in loss.	NIL
		Production Cost: Rs. 31,130.40/tonnes		
9h	Scrutiny of Annual return on fixed assets	Rs. 14,74,13,271/-	Reported fixed assets details are furnished as combned information for Beldongari group of mines.	NIL
9k	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR 17 CUM/MN - 2 ; DUMPER 10 TONNE - 2; FRONT END LOADER-1; GENERATOR (DIESEL) 400 KWH - 1; HAULAGE (ELEC.)-1; VENTILATION FAN 99999.990 CUM/H - 1; WINDING ENGINE (ELEC.) 7607 KG - 1; ROCK DRILL (NON-ELEC.) 320 MM - 6; PUMPS (ELEC.) - 9; Jeep/ tractor: 1	Details appear to be in order.	NIL

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)	07-AUG-23			
MCDR17	Rule 11(1)	07-AUG-23			

Date :

(OM PRAKASH GOPAL)

Indian Bureau of Mines