

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN-306/NGP

Mine code : 40MSH14028

- (i) Name of the Inspecting : **G002**) **OM PRAKASH GOPAL**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : C.R.M. Reddy, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 23-MAY-23
- (v) Prev.inspection date : 10-JUN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NEW SATUK (16.84 HA)**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : BELDONGRI
Taluka : PRSEONI
Post office : SATUK
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01-JAN-84
- (h) Weekly day of rest :
2. Address for :
correspondance
3. (a) Lease Number : MSH0080
- (b) Lease area : 16.84
- (c) Period of lease : 50
- (d) Date of Expiry : 10-SEP-30
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 : C.P.N.PATHAK
 3, MOUNT ROAD EXTN. POST
 BOX NO. 34 NAGPUR NAGPUR
 MAHARASHTRA
 Phone: 0712 - 2545703
 FAX : 0712 - 2524996

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	29-APR-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13-OCT-06
		Mining Scheme rule 12 MCDR1988	21-MAR-12
		MP review under 17(1) MCR 2016	04-APR-17
		MP review under 17(1) MCR 2016	01-APR-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It is proposed that entire G2 level area will be converted under G1 level by drilling of five boreholes during 2020-21 (2 boreholes) and 2021-22 (03 boreholes)	NIL	Violation of Rule 11(1) of MCDR 2017 pointed out for deviation in working from the approved proposal.
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal envisaged for the year 2022-23	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	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	Reserves as on 1/4/2020: 35070 tonnes (111) and 3885 tonnes (121)	NIL	NIL

1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	Base on past exploration two lensoid ore body has been proved inside the lease area. The general strike of the ore body is N80 degree E and dip varies from 40 to 45 degree due south . The ore body is proved upto 247 mrl.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t. lease area	There is no proposal for opencast mining. It is proposed to develop a decline from 276 mrl to 247 mrl in the western side of the lease. It is further proposed that after the development of decline haulage road will be developed 20 m away from the ore zone and cross cuts will be developed to intersect the ore body.	Underground development not done,	Violation of Rule 11(1) of MCDR 2017 pointed out for deviation in working from the approved proposals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable as there is no proposal for opencast mining.	Not done	NIL

2c	Stripping ratio or ore to OB ratio	Not applicable as there is no proposal for opencast mining.	Not applicable.	NIL
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	NIL

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.	NIL	NIL
3b	Quantity of ROM mineral production proposed	2500 Tonnes	657 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	2125 tonnes	640 tonnes	NIL
3d	Quantity of mineral reject generation	375 tonnes	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL

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	Mannual	Mannual	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.	Not applicable	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	Not applicable as there is no proposal for opencast mining.	Not applicable.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2017-18 -8000 tonnes 2018-19 - 5000 tonnes 2019-20 -5000 tonnes 2020-21 -1750 tonnes 2021-22 - 00 tones 2022-23 - 2500 tonnes	2017-18 -2338 tonnes 2018-19 - 3450 tonnes 2019-20 -2344 tonnes 2020-21 -3523 tonnes 2021-22 - 00 tones 2022-23 - 657 tonnes	NIL
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	There is no proposal for opencast mining. Underground mining is proposed by way of development of a decline from 276 mrl to 247 mrl in the western side of the lease. It is further proposed that after the development of decline haulage road will be developed 20 m away from the ore zone and cross cuts will be developed to intersect the ore body. However, decline could not be developed due to poor competency of host rock.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not applicable as there is no proposal for dumping.	Not applicable.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Not applicable as there is no proposal for dumping.	Not applicable.	NIL
4c	Number of dumps within lease area and outside of lease area	Not applicable as there is no proposal for dumping.	Not applicable.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as there is no proposal for dumping.	Not applicable.	NIL
4e	Number of active and alive dumps.	NA	NA	NIL
4f	Number of dead dumps.	NA	NA	NA
4g	Number of dumps established.	NA	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable as there is no proposal for dumping.	Not applicable as there is no proposal for dumping.	NIL
4i	Length of Retaining wall or garland drain all along dumps	Not applicable as there is no proposal for dumping.	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	NIL

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Proposals are confined to the underground method of mining and there is no such proposal for backfilling.	NIL	NIL
5b	Area under backfilling of mined out area	Proposals are confined to the underground method of mining and there is no such proposal for backfilling of mined out area.	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposals are confined to the underground method of mining and there is no such proposal for restoration of mined out area.	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	Proposals are confined to the underground method of mining and there is no such proposal for reclamation and rehabilitation .	NIL	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposals are confined to the underground method of mining and there is no such proposal for backfilling and reclamation.	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.	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).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NA	NA	NIL
6f	Any other method of rehabilitation	None	None	NIL
6g	Cost incurred on watch and care during the year	NIL	NIL	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal for reclamation and rehabilitation	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal for reclamation and rehabilitation	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal for reclamation and rehabilitation	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal for reclamation and rehabilitation	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal.	NIL	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	Monitoring is being 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.	Not proposed	Below 25% Mn grade and 25% to below 35% 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)	There is no such proposal	NIL	NIL
8b	Concurrent use or storage of topsoil	There is no such proposal	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no such proposal	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no such proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is no such proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal for plantation	NIL	NIL
8g	Survival rate	There is no such proposal	NA	NIL
8h	Water sprinkling on roads to control airborne dust	There is no such proposal	NIL	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	NIL

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 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 Engineear 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 3.08 ha, (ii) Covered under current (O-C) Workings: 0.0 ha, (iii) Reclaimed-rehabilitated : 0.0 ha, (iv) Used for waste disposal : 3.2 ha, (v) Occupied by plant, buildings, residential, welfare buildings and roads : 0.736 ha, (vi) Used for any other purpose (specify) Mineral Storage, : 0.08 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	Plantation not done in the year 2022-23.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation : NIL	Reported details are in order.	NIL

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

(a) Below 25%

Mn: Opening

Stocks-0.07

tonnes and

Closing

Stocks-71

tonnes

(b) 25% to below 35% Mn :

Opening

Stocks-106.47

tonnes and

Closing

Stocks-100.52

tonnes

(c) 35% to below 46% Mn :

Opening

Stocks-0.143

tonnes and

Closing

Stocks-0.143

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.2394.48/tonnes (b) 25% to below 35% Mn : Rs.5761.19/tonnes	ROM production is less (657 tonnes) than proposed production (2500 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	Value of fixed assets not reported as it has been reported jointly in the Annual Returns of Beldongari Mine (40MSH14002).	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	Water Tanker: 1, DUMPER 10 TONNE - 1; FRONT END LOADER-1	No comments as mine was not under operation at the time of ninspection.	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)	26-JUN-23			

Date :

(OM PRAKASH GOPAL)

Indian Bureau of Mines