

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/NAG/MN-323/NGP

**Mine code :** 40MSH14055

- (i) Name of the Inspecting : **204** ) **SNEHANKIT H. CHATTE**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. Ashish Belorkar, Agent & Shri. Kamle, Geological  
Official with  
Designation
- (iv) Date of Inspection : 04-Aug-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KAWATHA MANGANESE ORE MIN**
- (b) **Registration NO.** : **IBM/20164/2015**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : NAGPUR  
Village : KAWATHA  
Taluka : SAONER  
Post office : KELVAD  
Pin Code : 441112  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 07-May-21
- (h) Weekly day of rest :
2. Address for :  
correspondance :
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked :

5. Name and Address of the  
Lessee : SMT. RACHANA ASHISH BELORKAR  
57, KANCHANGEET APARTMENT  
SHIVAJI NAGAR, NAGPUR  
NAGPUR MAHARASHTRA  
Phone:  
FAX :
6. Date of approval of Mining :  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	As per the exploration proposals given in the approved Mining plan dated 03.08.2016, It was proposed to drill 07 nos. of borehole within 2 years from date of execution.	No boreholes found during inspection.	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. Violation for non-compliance is issued on 10.08.2021.
1b	Exploration over lease area for geological axis 1 or 2	As per the exploration proposals given in the approved Mining plan dated 03.08.2016, It was proposed to drill 07 nos. of borehole within 2 years from date of execution.	No boreholes found during inspection.	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. Violation for non-compliance is issued on 10.08.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	As per the exploration proposals given in the approved Mining plan dated 03.08.2016, It was proposed to drill 07 nos. of borehole within 2 years from date of execution.	No boreholes found during inspection.	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. Violation for non-compliance is issued on 10.08.2021.

1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the exploration proposals given in the approved Mining plan dated 03.08.2016, It was proposed to drill 07 nos. of borehole within 2 years from date of execution to check the continuity of ore body and reserve estimation.	no boreholes found during inspection.	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. Violation for non-compliance is issued on 10.08.2021.
1e	Balance reserve as on 01/04/20	Reserves as on 01.03.2016 is 6400T	The mine is opened on 07.05.2021 and it worked for only 03 months i.e. May 2021, June 2021 & July 2021. The reserve position as on 01.04.2021 is same i.e. 6400T.	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. only development work and float ore are being excavated.
1f	General remarks of inspecting officers on geology, exploration etc			The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. only development work and float ore are being excavated.

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Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	As per the proposals given in the approved Mining plan dated 03.08.2016, it was proposed to carry out production of Manganese ore from proposed pit located at N480 to N506 & E632 to E610	During the inspection, it was observed that, the Manganese ore has been excavated from Pit No. 2 & 3 located at N462 to N440 & E640 to E 660.	Violation for deviation from approved mining plan is issued on 10.08.2021.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	bench height X Nil Width= 1.5 x 1.5 m		recently opened mine on 07.05.2021 & is in developing stage, only float ore has been excavated.
2c	Stripping ratio or ore to OB ratio	1:6	Mine is under development stage.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
2d	Quantity of topsoil generation in m3	714 m3	Mine is under development stage, only float ore / Outcrops has been excavated.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
2e	Quantity of overburden generation in m3	1981 m3	Mine is under development stage, only float ore / Outcrops has been excavated.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	The mine is in developing stage, only float ore / Outcrops is being excavated.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3b	Quantity of ROM mineral production proposed	2021-22= 2732 T	The mine is in developing stage, only float ore / Outcrops has been excavated. As per the records the lessee has submitted Monthly returns for the month of May, june & july, 2021. Production if furnished below:-  May 2021=214 T June 2021=210 T July 2021=26 T	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3c	Recovery of sailable/usable mineral from ROM production	80% of the ROM shall be recovered as ore and rest shall be rejects.	Select float ore is being excavated showing 100% recovery.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3d	Quantity of mineral reject generation	2021-22= 20% i.e. 528 T	Nil, as Select float ore is being excavated showing 100% recovery.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.

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3e	Grade of mineral rejects generation and threshold value declared.	Not specified but threshold value is 10% (minimum)	No mineral rejects generated till now as Select float ore is being excavated showing 100% recovery, however, garde wise separate ore stacks found during inspection.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3f	Quantity of sub grade mineral generation.	Nil	Nil	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3g	Grade of sub grade mineral generation	NIL	NIL	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	

3j	Provision of drilling and blasting in mineral benches	As per the proposals, Small diameter drill holes Small diameter drill holes (34mm) would be drilled by compressed air operated jack hammers, and small dia explosive 32mm would be used for blasting, (34mm) would be drilled by compressed air operated jack hammers, and small dia explosive 25mm would be used for blasting,	Nil as mine is in development stage, only float ore are being excavated.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3k	Provision of mining machineries in mineral benches	Manual working is proposed. Machinery to be used is limited to Tipper - 1 no. Compressore-1, water sprinkler-1 & jack hammer 2 nos.	As per the proposals	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 m bench height is proposed as method of mining is manual.	The mine is in developing stage, only float ore / Outcrops has been excavated having depth no more than 1 to 1.5 m. (approx)	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3m	Total area covered under excavation/pits	0.04	as per the proposal	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.

3n	Ore to OB ratio for the pit/mine during the year.	2021-22= 1:6	The mine is in developing stage, only float ore / Outcrops has been excavated.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3o	Total area put in use under different heads at the end of year	Area put on use at start of mine (hect) Area under Mining= 0.4 Hect. & remaining is Nil	As per the proposals.	recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated.
3p	Production of ROM mineral during the last five year period as applicable	2017-18=747 2018-19=903 2019-20=1000 2020-21=1000 2021-22=2732	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021. 2017-18=NIL 2018-19=NIL 2019-20=NIL 2020-21=NIL 2021-22= Current year under development, production achieved as per the monthly returns is given below May 2021=214 T June 2021=210 T July 2021=26 T	The mine is recently opened, the lease is executed on 16.05.2017 & the date of opening is given as 07.05.2021.
3q	General remarks of inspecting officers on method of mining etc.			The me is recently opened and is in development stage. The Method of mining is manual Since the mine is recently opened & the lease is executed on 16.05.2017 & the date of opening is 07.05.2021.

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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)	Yes	dumping of waste was found on mineralized land & near mineral stack	violation for the same was issued on 10.08.2021
4b	Location of topsoil, OB and mineral reject dumps	waste dump location proposed N470 TO N 481 & E661 to E 690	dumping of waste was found on mineralized land & near mineral stack	violation for the same was issued on 10.08.2021
4c	Number of dumps within lease area and outside of lease area	Separate staking of soil & waste material about 6074 m3 average height of dump about 3m	mine is in development stage, only float ore is being excavated, generated waste was found dumped over mineralized lad & near mineral stack.	violation for the same was issued on 10.08.2021
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	location of the dump as proposed in the approved mining plan has been proposed N470 TO N 481 & E661 to E 690	mine is in development stage, only float ore is being excavated, generated waste was found dumped over mineralized lad & near mineral stack.	violation for the same was issued on 10.08.2021
4e	Number of active and alive dumps.	one dump about 3 m height	Nil on proposed site, mine is in development stage, only float ore is being excavated, generated waste was found dumped over mineralized lad & near mineral stack.	violation for the same was issued on 10.08.2021
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	yes proposed	nil, as dumping was not done on proposed dump site.	violation for the same was issued on 10.08.2021
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	

4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			The mine is recently opened (Date of Opening 07.05.2021), and only float ore are being excavated, Soil & waste ob generated is very minimum & the same was not dumped on proposed dumping site, was found supmed over mineralised land/ near mineral stack. violation for rectification of the same was issued on 10.08.2021

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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.	new mine not applicable	nil	
5b	Area under backfilling of mined out area	new mine not applicable	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no such proposals	nil	
5d	Total area fully reclaimed and rehabilitated	new mine, no such proposal	nil	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable as the mine is recently opned (Date of Opening 07.05.2021), and only float ore are being excavated, Soil & waste ob generated is very minimum.
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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).	The mine is recently opned (Date of Opening 07.05.2021), hence not applicable	nil	no plantation has proposed in the approved mining plan
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NOT PROPOSED	NIL	NEWLY OPENED MINE
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NOT PROPOSED	NIL	
6g	Cost incurred on watch and care during the year	NOT PROPOSED	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NOT PROPOSED	NIL	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NOT PROPOSED	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NOT PROPOSED	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NOT PROPOSED	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NOT PROPOSED	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NOT PROPOSED	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NOT PROPOSED	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NOT PROPOSED	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	NOT PROPOSED	NIL	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine is recently opened (Date of Opening 07.05.2021), PMCP compliance work yet to be started

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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed production Yr 2021-22= 2732 Hect	The mine is in developing stage, only float ore / Outcrops has been excavated. As per the records the lessee has submitted Monthly returns for the month of May, June & July, 2021. Production if furnished below:-  May 2021=214 T June 2021=210 T July 2021=26 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	M- 21.42% to 32.88%	as per the proposal	
7d	Any beneficiation process at mines	no proposals	nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The method of working & sorting of mineral is Manual means & The mine is recently opened (Date of Opening 07.05.2021. grade wise stacking of mineral was seen during inspection.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	during the yaer 2021-22, the 714 m3 of soil excavation was proposed	mine is in development stage, only float ore is being excavated	
8b	Concurrent use or storage of topsoil	not proposed	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	mine is in development stage, only float ore is being excavated, ganerated waste was found dumped over mineralized land & near mineral stack instead of proposed dumping site	violation for the same was issued on 10.08.2021
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not proposed	nil	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	not proposed	nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	no proposals	nil	
8g	Survival rate	not proposed	nil	
8h	Water sprinkling on roads to control airborne dust	Water sprinkler with water tanker	yes	provided
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			recently opened mine on 07.05.2021 (Notice of Opening) & is in developing stage, only float ore / Outcrops has been excavated till July 2021

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	AR to be submitted online on or before 30th June every year for the preceeding year MR to be submitted on or before 10th of every month for previous month	recently opened mine on 07.05.2021 (Notice of Opening), hence A.R. is yet to be submitted, however, As per the records the lessee has submitted Monthly returns for the month of May, june & july, 2021. Production if furnished below:- May 2021=214 T June 2021=210 T July 2021=26 T	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR to be submitted online on or before 30th June every year for the preceeding year, details of mining engineer & geologist not given	during the inspection & as per this office records, it was observed that, the notice of appointment of mining engineer & geologist not given submitted to this office.	violation for the same was given on 10.08.2021
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	recently opened mine hence annual return is not submitted, however as per the approved mining plan document is was proposed:- area under minin at start of mine = 0.04 hect.	seems correct	
9d	Scrutiny of Annual return on afforestation	recently opened mine hence annual return is not submitted, however as per the approved mining plan document no afforastation was proposed	nil	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	recently opened mine hence annual return is not submitted,	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	recently opened mine hence annual return is not submitted,	recently opened mine on 07.05.2021 (Notice of Opening), hence A.R. is yet to be submitted, however, As per the records the lessee has submitted Monthly returns for the month of May, june & july, 2021. Production if furnished below:-  May 2021=214 T June 2021=210 T July 2021=26 T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	recently opened mine hence annual return is not submitted,	nil
9h	Scrutiny of Annual return on fixed assets	recently opened mine hence annual return is not submitted,	nil

9k      Scrutiny of      recently      as per the proposal  
Annual return on      opened mine  
mining      hence annual  
machineries      return is not  
                         submitted,  
                         however as per  
                         the  
                         information  
                         given in  
                         approved  
                         mining plan  
                         document,  
                         Manual working  
                         is proposed.  
                         Machinery to  
                         be used is  
                         limited to  
                         Tipper - 1 no.  
                         Compressore-1,  
                         water  
                         sprinkler-1 &  
                         jack hammer 2  
                         nos.

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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)	10-Aug-21			
MCDR17	Rule 55(1) (3)	10-Aug-21			

**Date :**

**(SNEHANKIT H. CHATTE)**

Indian Bureau of Mines