

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/Mn-317/NGP

Mine code : 40MSH14035

- (i) Name of the Inspecting : **M017**) **ASHISH MISHRA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri S. P. Tiwari, Manager
Official with
Designation
- (iv) Date of Inspection : 17/02/2020
- (v) Prev.inspection date : 29/08/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **WADEGAON**
- (b) **Registration NO.** : **IBM/5301/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : WADEGAON
Taluka : RAMTEK
Post office : KACHURWAHI
Pin Code :
FAX No. :
E-mail : arundeoras@gmail.com
Phone : 9371476011
- (f) Police Station :
- (g) First opening date : 10/06/2011
- (h) Weekly day of rest : SUN
2. Address for : Aqueel Mansion
correspondance : Near Bohra Masjid Bhandara Road
Itwari, Nagpur
3. (a) Lease Number : MSH0350
- (b) Lease area : 3.97
- (c) Period of lease : 20
- (d) Date of Expiry : 18/01/2027
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SHRI SHAKEEL AHMED AQUEEL HUSSAIN
NAGPUR MAHARASHTRA
Phone:
FAX :

Owner : SHRI SHAKEEL AHMED AQUEEL HUSSAIN
NAGPUR MAHARASHTRA
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	11/12/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	15/07/2015
	:	MP modif under 17(3) MCR 2016	24/08/2017
	:	MP modif under 17(3) MCR 2016	28/12/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	04 DTH Boreholes were proposed to be drilled in the area in the approved proposal period of 2018-19 to 2021-22	No boreholes were drilled as work hasn't commenced for want of various statutory clearances as EC, CTE & CTO.	Notice for sinking of 3 Boreholes in Form I was received in this office on 05.03.2019 and 3 boreholes were drilled in the year 2019-20.
1b	Exploration over lease area for geological axis 1 or 2	G-1	Covered under G-1 axis - Approximately 1.5-2.0 ha Around 0.5-1 ha area is under blocked zone due to public structure (Canal) in the northern part of the lease area and in footwall (between grid N2359350 to N2359420 to E334100 to E334450). Rest area is unexplored laterally.	In the year 2013-14, 5 boreholes were drilled in the area through which reserves/resources in approximately 1.5-2 ha area were established under G-1 Axis. Further, 3 additional boreholes were drilled in the year 2019-20 and exploration is going on to cover the entire area under G-1 axis as well as proving depth continuity of the deposit in the area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By the lessee himself.	Nil, as no exploration carried out in the year 2018-19.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	4 Additional boreholes were proposed to cover the balance of approximately 1 ha area.	As per the proposals.	The exploration was started in the year 2019-20 after the commencement of mining operations.
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2019 are given in the actual work details.	111-92385 T 221-1575 T Total- 93960 T (As per the approved Mining Plan Document)	

1f	General remarks of inspecting officers on geology, exploration etc	The area is proved under G-1 axis by drilling 5 core boreholes in the year 2013-14 out of which, one bore hole hasn't encountered any mineral and other boreholes have proved existence of approximate 4.0 m thick Mn ore body in ES to WS direction with approx 45 deg dip towards S-E. Further, as on the date of inspection, 3 nos. of boreholes were found additionally drilled at the site alongwith one pit to prove the extent and depth continuity of the orebody.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2359280 to N2359320 & E334300 to E334450	Development hasn't started in the year 2018-19 and the area was under preparation for commencement of mining operations.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	As the orebody is in form of vein of 4 m, dipping at approx 45 deg dip towards S-E, separate benches are proposed to be developed in Top Soil, Overburden and minerals wherever possible.	Nil as development operations hasn't commenced in the year 2018-19.	
2c	Stripping ratio or ore to OB ratio	1:1.798 (ROM 11137 T & OB 20000 cum)	Nil	

2d	Quantity of topsoil generation in m3	Nil (soil mixed with murrum is present in the area having no nutrient value, hence considered as OB)	Nil	
2e	Quantity of overburden generation in m3	2018-19: 20000 cum	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining operations haven't commenced in the year 2018-19. As per the proposals, the deposit is proposed to be worked through opencast as well as underground mining to extract entire mineral deposit occurring in the lease area. Common boundary working permission is being sought from the competent authorities to work the entire deposit in continuity with adjacent mine.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit is proposed for production.	Nil	Mining operations haven't commenced in the year 2018-19.
3b	Quantity of ROM mineral production proposed	2018-19: 11137 T of ROM production is proposed.	Nil	Mining operations haven't commenced in the year 2018-19.

3c	Recovery of sailable/usable mineral from ROM production	90% of the ROM is proposed to be recovered as cleaned ore. rest 10% shall be subgrade and mineral rejects.	Nil	
3d	Quantity of mineral reject generation	5% of the ROM is proposed for mineral rejects, for 2018-19, it is 557 T	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Below 10% Mn material has been considered as mineral rejects. Threshold value as per IBM is +10% Mn	As per the proposals, however, as mining operations have not commenced in the year 2018-19, generation of mineral rejects is Nil.	Below 10% of Mn containing material has been considered as Mineral rejects as per the proposals. Mining operations haven't commenced in the year 2018-19.
3f	Quantity of sub grade mineral generation.	5% of the ROM is proposed for sub-grade, for 2018-19, it is 557 T	Nil	Mining operations haven't commenced in the year 2018-19.
3g	Grade of sub grade mineral generation	+10%-25% Mn containing material	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual segregation of ROM. Further, manual jigging is proposed to recover mineralized contents from mineral rejects and sub-grade.	Nil	Mining operations haven't commenced in the year 2018-19.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Jigging is proposed to recover mineralized contents from mineral rejects and sub-grade. No beneficiation study is proposed.	Nil	Mining operations haven't commenced in the year 2018-19.

3j	Provision of drilling and blasting in mineral benches	Yes, drilling is proposed through 105 to 115 mm dia DTH drills and blasting is proposed to be carried out through outsourcing to a licensed agency for the purpose.	Nil	
3k	Provision of mining machineries in mineral benches	Proposed extent of mechanization involves deployment of 2.5 cum excavators, JCB, 10 T and 25 T tipper dumpers & Water tanker.	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed is 6 m for both OB and Ore	Nil, as mining operations haven't commenced in the year 2018-19.	Proposed bench height is suitable for working the deposit under category A with proposed set of equipments. (Method of mining proposed is Category A). Mining operations haven't commenced in the year 2018-19.
3m	Total area covered under excavation/pits	0.5 ha area is already broken under pit. Additionally, 1.1 ha area is proposed to be covered under pits in the proposal period 2018-19 to 2021-22.	0.5 ha area is broken under pit. No additional area has been broken in the year 2018-19.	Mining operations haven't commenced in the year 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.798 (ROM 11137 T & OB20000 cum)	Nil	Mining operations haven't commenced in the year 2018-19.

3o	Total area put in use under different heads at the end of year	Area proposed upto 2018-19 to 2021-22 under: Pits-1.63 ha Waste Dumps-0.065 ha Mineral Storage-0.2212 ha Infrastructure -0.0342 ha Roads-0.08 ha Settling Tank-0.0505 ha Total-2.1 ha	Area under pits-0.5 ha Total-0.5 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 2671 T 2016-17- 1800 cum 2015-16- 1800 cum 2014-15- No proposals 2013-14- No proposals	2017-18- 0 2016-17- 0 2015-16- 0 2014-15- 0 2013-14- 0	No production has been reported for last 10 years. In 2019-20, mining operations have started after getting EC and requisite clearances from SPCB (Consent to Establish and Consent to Operate).
3q	General remarks of inspecting officers on method of mining etc.			Method of mining proposed is category A mechanised (as per Rule 55 of MCDR'17). It is proposed to work the area through semi-mechanized means by opencast as well as underground working methods. Till 2018-19, no mining operations have commenced.

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)	Yes, separate dumping of OB and mineral rejects is proposed. Top soil is not available in the area, soil available is mixed with murrum with no nutrient value.	Nil	Mining operations haven't commenced in the year 2018-19.
4b	Location of topsoil, OB and mineral reject dumps	Top soil dump: Nil Not applicable OB: In the NE part of the lease area between grid values N2359300 to 2359350 & E334300 to E334400 Mineral rejects: it is proposed to stack the mineral rejects near the Ore Cleaning Floor located in the southern part of the lease area within the grid values N2359150 to N2359200 & E334200 to E334300	Nil	
4c	Number of dumps within lease area and outside of lease area	One waste dump is proposed within the lease area as per the location given in item 4b.	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump is proposed outside the pit limits & in the footwall within the non-mining zone (blocked within 50 m influence of Canal)	Nil	
4e	Number of active and alive dumps.	One dump is proposed which shall remain active.	As on 31.03.2019, no active dump is present in the area.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Not applicable	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drains and retaining walls are proposed to be constructed at the toe of the dump.	Nil	Nil, as no dumps are present within the lease area as on 31.03.2019.
4i	Length of Retaining wall or garland drain all along dumps	No specific proposals	Nil	Nil as per the remarks of 4h.
4j	Number of settling ponds	It is proposed to construct one settling tank within the lease area at approximate location N2359400 & E334200 in the proposal period 2018-19 to 2021-22.	Nil for 2018-19	

4k	Specific comments of inspecting officer on waste dump management	Waste dumping is proposed in the footwall side and in the blocked zone, thus, utilizing the entire available area for mining. Garland drains and retaining walls are proposed to be constructed at the toe of dumps as protective measures to prevent wash-off. Thus, waste dump management proposals are effective which can be evaluated only after implementation and commencement of mining operations.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling is proposed.	Nil	
5b	Area under backfilling of mined out area	No such proposals	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	No such proposals	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mining operations have commenced in the area in the year 2019-20 after stoppage of mining operations for more than 10 years. Further, opencast and underground, both methods are proposed for working the deposit in the area. Thus, no backfilling is proposed upto the conceptual period except part backfilling in the extreme eastern part that may be done at conceptual stage.
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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 for work done under PMCP has to be submitted before 1st July each year for the works carried out in the preceeding year.	No such report submitted.	As mining operations commenced in the year 2019-20, no such report was submitted for the year 2018-19, however, during site inspection, a 'Nil' report was obtained for the mine for 2018-19.
6b	Area available for rehabilitation (ha) .	No such proposals	Nil	
6c	afforestation done (ha).	Nil	Nil	

6d	No. of saplings planted during the year	25 saplings for the year 2018-19	Nil	In the year 2018-19, no plantation was done as mining operations were yet to be commenced in the area and preparatory works as construction of office, roads etc. was being done.
6e	Cumulative no .of plants	Not available	Nil	
6f	Any other method of rehabilitation	No such proposals	Nil	
6g	Cost incurred on watch and care during the year	Approximately Rs 25000/- for the year 2018-19 for plantation and environment monitoring	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposals	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposals	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.025 ha	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.025 ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	No such activity carried out in the area as mining operations haven't started.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, environment monitoring is proposed in core and buffer zones with: Air- 8 samples for post and pre monsoon Water- 3 spot samples post monsoon, summer and monsoon seasons Noise & Ground Vibration- In the core and buffer zone for 1 sample, at least 3 blastings per season	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP proposals are yet to be implemented as mining operations hasn't commenced in the year 2018-19. Evaluation of activities under PMCP can be done only after its implementation.
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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 mineral dispatch is proposed after sorting of graded ore from ROM.	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual segregation of ROM. Further, manula jigging is proposed to recover mineralized contents from mineral rejects and sub-grade.	Nil	
7c	Different grade of mineral sorted out at mines.	+10%-25% Mn +25% to 35% Mn	Nil	
7d	Any beneficiation process at mines .	Manual jigging is proposed to recover mineralized contenet from sub-grade and mineral rejects	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM is proposed for grade-wise sorting. Further, mineral rejects and sub-grade are proposed to be blended with graded ore after manual jigging. Thus, mineral conservation aspect has been covered satisfactorily in the proposals that can be evaluated only after implementation of the proposals.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is available, hence no such proposals.	Nil	
8b	Concurrent use or storage of topsoil	No top soil is available, hence no such proposals.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, separate dumps proposed for OB/Waste and mineral rejects.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information on existence of plantation given in the mining plan and EIA. Further, 25 saplings are proposed to be planted each year in the 7.5 m non-mining zone.		
8g	Survival rate	80%	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes, water tanker of 5000 Ltr capacity is proposed to be deployed in the mine for the purpose.	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the area is satisfactory. Most of the surrounding area is agricultural land. As mining operations haven't commenced till 2018-19, degradation due to mining activities was Nil.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual returns are to be submitted online before 1st July each year for the preceeding year. Monthly returns are to be submitted online on or before 10th of every month for the preceeding month	AR submitted online upto 2018-19 MR submitted online upto Jan'20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Arun Deoras Geologist: Shri A. M. Kamble Manager: Nil	Correct information furnished	No appointment for Manager was made in the year 2018-19 as mining operations haven't commenced. As on the date of inspection, manager was appointed and his name is Shri S. P. Tiwari.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per the returns, Area under pits: 0.5 ha Total: 0.5 ha	Correct information furnished	
9d	Scrutiny of Annual return on afforestation	As per the Annual Return, Plantation done: Nil	Correct information furnished	In the year 2018-19, no plantation was done as mining operations were yet to be commenced in the area and preparatory works as construction of office, roads etc. was being done.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Correct information furnished	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening Stock- 56.74 T, Production- 0, Closing Stock- 56.74 T Graded Ore: Nil	Correct information furnished	Old mineral stack was observed at the time of inspection of the area.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: Nil Ex-Mine Price: Nil Cost of production: Nil	As no production or grading or sale/dispatch has been done from the lease area in the year 2018-19, correct information has been furnished.	
9h	Scrutiny of Annual return on fixed assets	Nil	Land under the mining lease is Private Revenue Land for which consent has been taken from the owner of the land. Further, no machinery or plant has been installed/commissioned yet. Thus, complete and correct information has been furnished.	
9k	Scrutiny of Annual return on mining machineries	Nil	Nil, as mining operations hasn't commenced in the year 2018-19.	

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 :

(ASHISH MISHRA)

Indian Bureau of Mines