

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN-326/NGP

Mine code : 40MSH14048

- (i) Name of the Inspecting : **204**) **SNEHANKIT H. CHATTE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. S.G. Vairagade, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 12-Jan-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MAHARKUND MANGANESE ORE**
- (b) **Registration NO.** : **IBM/8864/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : MAHARKUND
Taluka : SAONER
Post office : BICHWA
Pin Code : 441101
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01-Jan-21
- (h) Weekly day of rest : SUN
2. Address for :
correspondance :
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : MANGANESE ORE Associated

5. Name and Address of the

Lessee : M/S VEET RAG HOMES PVT. LTD.
267, Ganesh Phadanavis
Bhavan, Near Trikoni Park
Dharampeth, Nagpur NAGPUR
MAHARASHTRA
Phone:
FAX :

Owner : Shri. G. C. Shukla
301, A-Wing, Lokmat Bhawan,
Pt. Jawaharlal Nehru Marg
Ramdaspath, Nagpur (MS)
NAGPUR MAHARASHTRA
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 23-Dec-15
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 06-Sep-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During year 2020-21, 21 nos. of boreholes were proposed	nil	Violation issued
1b	Exploration over lease area for geological axis 1 or 2	During year 2020-21, 21 nos. of boreholes were proposed, however under G1=1.93 Hect area explored	G1=1.93 Hect area explored	violation issued
1c	Exploration Agencies and Expenditure in lakh rupees during the year	by lessee	nil	During year 2020-21, 21 nos. of boreholes were proposed but lessee has not drilled the proposed boreholes. Hence Violation was issued to lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	8.69 hect	8.69 hect	
1e	Balance reserve as on 01/04/20	as on 01.04.2020= 170700 T	seems correct	

1f	General remarks of inspecting officers on geology, exploration etc	The formation of the area belongs to Munsar Formation of Saunsar Group of Mesoproterozoic age, the Mn ore is associated with Quartzite & Mica schist. out of 10.62 hect lease area, 1.93 hect area was explored in G1 category, during year 2020-21, 21 nos. of boreholes were proposed but lessee has not drilled the proposed boreholes. Hence Violation was issued to lessee.
----	--	--

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	excavation was proposed between N-238317 & E-291700 to N238366 & E-291725 and from N238340 &E-291638 to N-238400 & E-291635	During inspection it was found that, the lessee has excavated from N-238317 & E-291700 to N238366 & E-291725 to N-238395 & E-291750 to N-238430 & E-291640	for deviation in working from approved mining plan, a violation letter was issued to lessee
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes proposed	separate benches in OB & mienral was found	

2c	Stripping ratio or ore to OB ratio	1:2.78	> 1:2.78	During mine inspection it was found that, the pit was over excavated as compared to the proposals given in approved mining plan. Violation for the same was issued
2d	Quantity of topsoil generation in m3	4776 m3	> 4776 m3	During mine inspection it was found that, the pit was over excavated as compared to the proposals given in approved mining plan. Violation for the same was issued
2e	Quantity of overburden generation in m3	57291 m3	> 57291 m3	During mine inspection it was found that, the pit was over excavated as compared to the proposals given in approved mining plan. Violation for the same was issued
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During mine inspection it was found that, the pit was over excavated as compared to the proposals given in approved mining plan. Violation for the same was issued

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

3a	Number of pit proposed for production	ONE & TWO	ONE & TWO	VIOLATION FOR OVER EXCAVATION WAS ISSUED
3b	Quantity of ROM mineral production proposed	22329 T	22300 T	
3c	Recovery of sailable/usable mineral from ROM production	85%	43%	Discrepancies as observed was informed to lessee through violation letter
3d	Quantity of mineral reject generation	5% = 372.15 T	1200 T	Discrepancies as observed was informed to lessee through violation letter
3e	Grade of mineral rejects generation and threshold value declared.	Below 8%	Below 8%	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	nil	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	during site inspection, for segregation of ROM machinaries were seen but the same was under construction.
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	yes, through jack hammer having 1.5 m depth of hole & blasting by slurry/emulsion explosive	seem correct	
3k	Provision of mining machineries in mineral benches	Back Hoe=1 Dumper=2 Jack Hammer=1	seems correct	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, 4-5 meter	yes, separate benches having 3 meter height in ORE and OB were seen	
3m	Total area covered under excavation/pits	1.8661 Hect	approx. 2.3 hect	violation issued
3n	Ore to OB ratio for the pit/mine during the year.	1:2.78	> 1:2.78	During mine inspection it was found that, the pit was over excavated as compared to the proposals given in approved mining plan. Violation for the same was issued
3o	Total area put in use under different heads at the end of year	area under pit=1.9336 waste dump=0.5542 Mineral storage=0.2 infra/ roads=0.2877	area under pit= 2.3 approx waste dump= 1.0 approx Mineral storage= 0.2 infra/ roads= 0.2877	violation issued

3p	Production of ROM mineral during the last five year period as applicable	2016-17= 27660 T 2017-18= 22329 T 2018-19= 22329 T 2019-20= 22329 T 2020-21= 22329 T	2016-17= NIL (NO EC) 2017-18= NIL T 2018-19= NIL T 2019-20= NIL T 2020-21= 22300 T	The production was started by the lessee during the year 2020-21
3q	General remarks of inspecting officers on method of mining etc.			The method of working of the mine is category A mechanized open cast mine. The production of this mine was commence in the year 2020-21 due to delay in want of EC. During inspection, it was observed that the pit was over excavated against the proposals given in last approved mining plan. Violatio for the same was issued.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	yes separate dumping of waste was found at proposed site near BP 12,13,14 &15	

4b	Location of topsoil, OB and mineral reject dumps	Top soil=From E291405- E291565 TO N 238265- N2380320 Wate Dump=From E291450- E291560 TO N 238210- N2380260 Mineral Rejects= From E291315- E291325 TO N 238390- N2380420	Top soil=From E291405- E291565 TO N 238265- N2380320 Wate Dump=From E291450- E291560 TO N 238210- N2380260 Mineral Rejects= From E291315- E291325 TO N 238390- N2380420	Violation was issued for deviation in approved mining plan
4c	Number of dumps within lease area and outside of lease area	one within lease area	one within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL, Wate Dump=From E291450- E291560 TO N 238210- N2380260	Within UPL Wate Dump=From E291450- E291560 TO N 238210- N2380260	
4e	Number of active and alive dumps.	active dump =01	active dump =01	
4f	Number of dead dumps.	01	01	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	no proposal	nil	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	nil	
4j	Number of settling ponds	01	was under construction	

4k	Specific comments of inspecting officer on waste dump management	during inspection it was found that the pit was over excavated & dumping thereof & violation for the same was issued.
----	--	---

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.	not proposed	nil	
5b	Area under backfilling of mined out area	not proposed	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	separate stacking of top soil	as proposed	
5d	Total area fully reclaimed and rehabilitated	not proposed	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			since the mine production was started in year 2020-21 the mine is not fully matured/ developed for backfilling/ restoration.

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).	yes	yes
6b	Area available for rehabilitation (ha) .	not proposed	nil
6c	afforestation done (ha).	not proposed	nil
6d	No. of saplings planted during the year	not proposed	nil
6e	Cumulative no .of plants	NA	Nil
6f	Any other method of rehabilitation	not proposed	nil
6g	Cost incurred on watch and care during the year	NA	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	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			since the mine production was started in year 2020-21 the mine is not fully matured/ developed for PMCP & backfilling/ restoration work.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area		Nil dispatch only production of ROM 22300 T was done
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	below 20% Mn	below 20% Mn
7d	Any beneficiation process at mines .	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		since the mine production was started in year 2020-21, manual sorting of ore was carried out. No dispatch of ore taken place during the year 2020-21

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	separate stacking of top soil was proposed	correct	
8b	Concurrent use or storage of topsoil	storage	correct	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumping of waste, soil , ore & reject	separate dumping of waste, soil , ore & reject was found	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not proposed	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	nil	
8h	Water sprinkling on roads to control airborne dust	through water tanker	seems correct	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mine is in developing stage production was started in the year 2020-21. proper roads/ ramps were constructed by the lessee dumping / stacking was seen on the proposed locations.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual returns are required to be submitted online before 1st July & Monthly returns are to be submitted online before 10 of every month.	submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer= Arun Deoras Geologist= Nil	found incorrect	violation issued
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current working- 0.2Ha, Used for waste disposal- 00Ha, Infrastructure -0.15Ha	found incorrect	Violation issued for over excavation
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1200 T Below 8% Mn	violation issued seeking clarification	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Production 22300 tonnes and for graded ore Opening & closing stock =0T & 9600 T resp.		violation was issued for production, recovery & mineral reject & clarification was sought
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine cost= 2640.00 T Production Cost= 1519.00	no dispatch of Mn was reported, Nil.	
9h	Scrutiny of Annual return on fixed assets	13000000	seems correct	
9k	Scrutiny of Annual return on mining machineries	Back Hoe=1, Dumper=2, Motor=1	seems correct	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	15-Feb-22			
MCDR17	Rule 55(1) (3)	15-Feb-22			

Date :

(SNEHANKIT H. CHATTE)

Indian Bureau of Mines