

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

40MSH14041

Mine file No : MAH/NAG/MN-137/NGP

Mine code : 40MSH14010-

- (i) Name of the Inspecting : K02) Kalmata.M.K.
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri .U.M.Bhujade., Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 18/06/2021
- (v) Prev.inspection date : 14/10/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : MUNSAR
- (b) Registration NO. : IBM/5711/2011
- (c) Category : A Manual
- (d) Type of Working : Underground Dump working
- (e) Postal address :
State : MAHARASHTRA
District : NAGPUR
Village : MANSAR
Taluka : RAMTEK
Post office : KHAIRI BIJEWADA
Pin Code : 441106
FAX No. : 07122592073
E-mail : mm.ms@mil.mic.in
Phone : 07122590153
- (f) Police Station :
- (g) First opening date : 01/07/1962
- (h) Weekly day of rest : MON
2. Address for
correspondance :
3. (a) Lease Number : MSH0071
- (b) Lease area : ~~100.63~~ 25.15 Ha
- (c) Period of lease : 60
- (d) Date of Expiry : 30/06/2022 13/05/2022 →

Renewal granted
vide letter no.
MMN-1005/C.R.763/Ind-9
dt: 09.02.2005.

~~MSH0097
.97
51
31/03/2020~~

MSH0085
25.15
50
13/05/2032

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~~ Shri P.V.V. Patnaik.
1-A, MOIL BHAVAN KATOL ROAD
NAGPUR NAGPUR MAHARASHTRA
Phone:
FAX :

Agent : ~~A. V. MASADE~~ R. G. Singh.
MUNSAR MINE RAMTEK NAGPUR
NAGPUR MAHARASHTRA
Phone:
FAX :

Mining Engineer
Name : ~~SACHIN RAMTEKE, Full Time~~ Udith Bothra
Qualification :
Appointment/ : 01/07/2017
Termination date

Geologist
Name : DEBONATH MOHANTA, Full Time
Qualification :
Appointment/ : 01/07/2018
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 22 MCR1960 06/05/2003
Renewal under rule 22 MCR1960 06/05/2003
Mining Scheme rule 12 MCDR1988 14/12/2010
Mining Scheme rule 12 MCDR1988 16/04/2013
MP review under 17(1) MCR 2016 30/05/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploratory boreholes were proposed in the present plan period.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed.	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed.	Nil	Reserves are estimated only from dump. So no exploration is proposed in the present plan period.
1e	Balance reserve as on 01/04/20	Reserve position as per the approved document. (Reserves as on 01.04.2017) 12,991 tonnes	Reserve position as on 01.04.2021. 12,800.14 Tonnes.	Reserves are updated by depleting production of 190.86 tonnes, carried out b/w 2017-18 to 2020-21. Since reserves were estimated from dump, UNFC classification is not given.
1f	General remarks of inspecting officers on geology, exploration etc		No insitu reserves are available in the lease area and reserves are estimated from existing old mineral dump only.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Only dump working was proposed in the year 2020-21.	No working has been carried out in the year 2020-21.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed.	Nil.	Only dump working was proposed and no mining is carried out in the year 2020-21.
2c	Stripping ratio or ore to OB ratio	No insitu working has been proposed.	Nil.	Only dump working was proposed.
2d	Quantity of topsoil generation in m3	Not proposed.	Nil	
2e	Quantity of overburden generation in m3	Not proposed.	Nil	Only dump working was proposed. and it was proposed to handle 8000M3 waste to produce 200 tonnes of clean ore. However, no working has been carried out in the year 2020-21.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Only dump working was proposed in the year 2020-21, but no working has been carried out in the year 2020-21	

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	No insitu working was proposed.	Nil.	Only dump working was proposed in the present plan period and working has been not carried out in the year 2020-21.
3b	Quantity of ROM mineral production proposed	200 tonnes clean ore in the year 2020-21.	Nil	No production has been carried out in the year 2020-21 and violation is pointed out for the same.
3c	Recovery of sailable/usable mineral from ROM production	200 tonnes clean ore proposed in the year 2020-21.	Nil	
3d	Quantity of mineral reject generation	Not proposed.	Nil.	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.
3f	Quantity of sub grade mineral generation.	Not proposed.	Nil.
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual sorting.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Nil
3j	Provision of drilling and blasting in mineral benches	Not proposed.	Nil.
3k	Provision of mining machineries in mineral benches	Combination of shovel and dumper was proposed for dump working.	No working has been carried out in the year 2020-21.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No insitu mining was proposed.	Nil.
3m	Total area covered under excavation/pits	No insitu working was proposed.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed.	Nil

Only dump mining is proposed in the present plan period.

3o	Total area put in use under different heads at the end of year	No additional area was proposed in the present plan period. Only dump working was proposed from existing mineral dump of 0.96Ha.	Only dump working has been carried out in the present plan period. and no working has been carried out in the year 2020-21.	Area put under use so far is as follows:- Area covered under old pit-1.16Ha, Waste Dumps-2.43Ha, Mineral dump-0.96Ha, Infrastructure-0.9Ha.
3p	Production of ROM mineral during the last five year period as applicable	2020-21 200 tonnes 2019-20 Nil 2018-19 200 tonnes 2017-18 Nil 2016-17 400 tonnes	2020-21 Nil 2019-20 Nil 2018-19 190.86tonnes 2017-18 Nil 2016-17 50 tonnes	No production was carried out in the year 2020-21 ,so violation is pointed out for the same under Rule 11(1) of MCDR-2017.
3q	General remarks of inspecting officers on method of mining etc.		Only dump working was proposed and no working has been carried out in the year 2020-21, so violation is pointed out for the same under Rule 11(1) of MCDR-2017.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed.	Nil	Only dump mining was proposed in the present plan period and working has been not carried out in the year 2020-21. However, waste and Mineral was stacked separately in the previous plan period.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed in the present plan period.	Nil.	One waste dump is existing near the abandoned old pit and Mineral dump b/e N-14580 to N-14640 and E-16010 to E-16170.

4c	Number of dumps within lease area and outside of lease area	Not proposed in the present plan period.	Nil in the present plan period.	Two dumps were existing within the lease area. One waste dump and one mineral dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable.	Not applicable.	Only dump mining is proposed and UPL is not applicable.
4e	Number of active and alive dumps.	Not proposed in the present plan period.	One mineral dump is active.	
4f	Number of dead dumps.	Not proposed in the present plan period.	One old waste dump is existing within the lease area.	
4g	Number of dumps established.	Not proposed	Part of the waste dump is stabilized by plantation.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed.	Nil	
4j	Number of settling ponds	Not proposed.	Nil.	
4k	Specific comments of inspecting officer on waste dump management		No waste dumping was proposed in the present plan period. Part of existing old dump is stabilized by plantation.	

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.	Not proposed.	Nil	No insitu mining was proposed in the present plan period. Only dump working was proposed.
5b	Area under backfilling of mined out area	Not proposed.	Nil in the present plan period.	About 1.00ha of abandoned pit is backfilled during the previous plan period.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil	No backfilling was proposed in the present plan period.
5d	Total area fully reclaimed and rehabilitated	Not proposed in the present plan period.	Nil in the present plan period.	About 1.00ha of abandoned pit is backfilled in the previous plan period and about 1.20 Ha waste dump is stabilized by plantation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No backfilling was proposed and carried out in the present plan period. However, about 1.00Ha of abandoned pit is backfilled during the previous plan period and about 1.20Ha of waste dump is stabilized by plantation.	

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).	Before 1st July of every year.	Lessee has submitted yearly report on PMCP for the year 2020-21.	Submitted report on PMCP within the time limit.
6b	Area available for rehabilitation (ha) .	Not proposed in the present plan.	Nil in the present plan period.	In the previous plan period about 1.00Ha abandoned pit was back filled and about 1.20Ha old dump is stabilize by plantation.
6c	afforestation done (ha).	Not proposed in the present plan period.	0.08Ha in the year 2020-21.	Plantation is made on the old dump and along the safety zone.
6d	No. of saplings planted during the year	Not proposed in the present plan period.	200 saplings were planted in the year 2020-21.	
6e	Cumulative no .of plants	Not proposed in the present plan period.	About 480 saplings were planted in the present plan period.	

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 (L x B x D	Not proposed.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Nil in the present plan period.
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)	Proposed environmental monitoring in core & buffer zone.	The mine is not working and impact of mining on environment is nil	Lessee is doing environmental monitoring combindly for munsar mine and results are within permissible limits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting was proposed.	Working has been not carried out in the year 2020-21.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Working has been not carried out in the year 2020-21.	
7c	Different grade of mineral sorted out at mines.	Bleow 25% Mn and 25 to below 36% Mn.	Working has been not carried out in the year 2020-21.	
7d	Any beneficiation process at mines	Not proposed.	Nil.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The mine is not working and no production and despatch was done in the year 2020-21.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil.	Only dump mining was proposed in the present plan period and no mining has been carried out in the year 2020-21 due to covid pandemic restrictions.
8b	Concurrent use for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	Nil.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	No dumping was made in the present plan period.	During previous plan period separate dumping was made for mineral and waste. One mineral dump and one waste dump is existing within the lease area.
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)	Not proposed.	Nil.	During previous plan period about 1.00ha abandoned pit is backfilled and about 1.20Ha of old dump is stabilized by plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No plantation was proposed in the present plan period.	200 saplings were planted in the year 2020-21.	Total 480 saplings were planted in the present plan period.
8g	Survival rate	Not proposed.	75 to 80%	
8h	Water sprinkling on roads to control airborne dust			The mine is not working, so generation of airborne dust is negligible. However lessee is using water tanker for dust suppression whenever necessary.

8i General remarks of inspecting officer on aesthetic beauty in and around mines area

Only dump mining was proposed in the present plan period and no land was degraded by mining in the present plan period. One abandoned pit is existing within the lease area and about 1.00Ha of the pit is backfilled during previous plan period. Two dumps are existing within the lease area (One mineral dump and one waste dump) . and plantation was observed on waste dump. About 1.20ha of waste dump is stabilized by plantation.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.	Lessee is regularly submitting monthly and annual returns within the time limit.	Submitted monthly returns upto May-2021 and Annual returns for the year 2019-20.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shri. Udit Bothra, Geologist-D. Mohanta and Manager- Shri U M Bhujade.	The information given in the annual returns submitted for the year 2019-20 is found correct.	The lease area is very small and only dump mining is proposed .So, Mining engineer, Geologist and Manager are common for munsar mine.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern under different heads is shown as zero in the annual returns submitted for the year 2019-20, except reclamation & Rehabilitation . R7R area is shown as 0.2ha in the annual returns submitted for the year 2019-20.	Area put under use so far is as follows:- Area covered under old pit (abandoned) -1.16Ha, Waste Dumps-2.43Ha, Mineral dump-0.96Ha, Infrastructure-0.9Ha.	Violation is issued for the same under Rule 45(7) of MCDR-2017.
9d	Scrutiny of Annual return on afforestation	200 and survival rate 80%.	The information given on plantation is found correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed.	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Position of opening stock, production, dispatch and cloising stock for ROM and graded ore is shown as zero in the annual returns submitted forthe year 2019-20.	The information given in the annual returns submitted for the year 2019-20 is found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value, Exmine price and cost of production is shown as zero.	The information given in the annual returns submitted for the year 2019-20, is found correct.	The mine is not working due to covid pandemic restrictions. So, no production and dispatch has been carried out in the year 2019-20.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is shown as zero.	During field visit some buildings were observed within the lease area, but in the annual returns submitted for the year 2019-20, value for the same is shown as zero.	Violation is pointed out for the same under Rule 45(7) of MCDR-2017.

9k	Scrutiny of Annual return on mining machineries	No mining machineries were shown.	The mine is not working and no machineries were observed on the day of inspection.	Lessee has shown only water tanker which is using for dust supression whenever necessary.
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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)	06/07/2021			
Rule 45(7)		06/07/2021			

Date :

(Kalmata.M.K.)

Indian Bureau of Mines