

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : U11) DAYANAND UPADHYAY
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj kumar singh, DGM (Mines), Shri Anil Singh
Official with
Designation
- (iv) Date of Inspection : 31/01/2016
- (v) Prev.inspection date : 10/03/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : NEW SATUK (16.84 HA)
- (b) Registration NO. :
- (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 : 01/01/1984
- (h) Weekly day of rest :
2. Address for :
correspondance
3. (a) Lease Number : MSH0080
- (b) Lease area : 16.84
- (c) Period of lease : 20
- (d) Date of Expiry : 09/10/2020
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 Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29/04/2003
		Mining Scheme rule 12 MCDR1988	13/10/2006
		Mining Scheme rule 12 MCDR1988	21/03/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 boreholes during mining scheme period.	02 bore holes	
1b	Exploration over lease area for geological axis 1 or 2	For geological axis 1	Bore holes drilled to prove the ore zone 10 meter below the 277mRL.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Exploration carried out by M/s Maheswari pvt ltd.	
1e	Balance reserve as on 01/04/20		Balance reserves as on 01.04.2015 is 24,324 T	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western side of lease area	Western side of lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	MINERAL - 01 OB H/W - 5 OB F/W- 6	MINERAL - 01 OB H/W - 4 OB F/W- 3	
2c	Stripping ratio or ore to OB ratio	1:5	1:5	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	2014-15: 8365 cu.m	Nil	Working was temporarily closed.

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

During inspection it has been observed that excavation of the mineral from the pit is discontinued and mineral is excavated time to time from old dumps only.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 pit.	01 pit.	
3b	Quantity of ROM mineral production proposed	2014-15 : 8365T	2014-15 : 1195T	
3c	Recovery of sailable/usable mineral from ROM production	55%	55%	
3d	Quantity of mineral reject generation	728T	487T	
3e	Grade of mineral rejects generation and threshold value declared.	< 10% Mn	< 10% Mn	
3g	Grade of sub grade mineral generation	10-20 % Mn	10-20 % Mn	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	

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	Drilling & blasting of 6m bench height.	During inspection it has been observed that pit working is closed and bottom of the pit is waterlogged. It has been reported by the lesse that presently mineral is being extracted from old dump working.
3k	Provision of mining machineries in mineral benches	hydraulic excavator of 0.9 cu.m capacity with dumper of 12T capacity.	During inspection mine was temporarily closed and no machineries was found at mine site.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m bench height proposed in SOM.	Yes suitable as per SOM
3m	Total area covered under excavation/pits	1.73 ha	1.73 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:5	1:5
3o	Total area put in use under different heads at the end of year	Area under pit-2.12ha, Area under OB-3.13ha, Area under mineral storage-01.62ha	Area under pit-1.739ha, Area under OB-1.912ha.
3p	Production of ROM mineral during the last five year period as applicable	2011-12: 9734T 2012-13: 6237T 2013-14: 2898T 2014-15: 2426T	2011-12: 9452T 2012-13: 6951T 2013-14: 5520T 2014-15: 1195T

3q	General remarks of inspecting officers on method of mining etc.	Opeacast mining with manual and semi-mechanised method.	During inspection the mine was closed and bottom othe pit was waterlogged. It has been reported by lessee that at present only old dump working is carried out time to time as per requirement.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dump for OB and mineral reject.	Separate dump has been made for OB and mineral rejcect.	
4b	Location of topsoil, OB and mineral reject dumps	Eastern side of lease	Eastern side of lease	
4c	Number of dumps within lease area and outside of lease area	03 Dump.	There are 03 dump in lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	East side of lease.	East side of lease	
4e	Number of active and alive dumps.	03 Dupm	03 Dump	
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.	Not proposed.	Nil	
4j	Number of settling ponds	Not proposed.	Not applicable.	

4k Specific comments of inspecting officer on waste dump management

Seperate dump for OB and subgrade has been made.

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.	Backfilling not proposed.	Mine is under development stage. Mineral is not exhausted from any part of the pit.	
5b	Area under backfilling of mined out area	Not proposed.	Not applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Not applicable.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine is under development stage. Mineral is not exhausted from any part of the pit.

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).		Report on PMCP has been submitted.	

6b	Area available for rehabilitation (ha) .	Not proposed.	Area is not matured for rehabilitation.
6f	Any other method of rehabilitation	Not proposed.	Not applicable.
6g	Cost incurred on watch and care during the year	Not proposed.	Not applicable.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed.	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed.	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed.	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed.	Not applicable.

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Not applicable.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Not applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)		Mine was closed during inspection.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine is not matured for reclamation and rehabilitation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting	Mineral is sorted garde wise and dispatched within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual sorting.	
7c	Different grade of mineral sorted out at mines.	Gradewise sorting.	GRADE & MN %- >25%, 25-35% & 35-46%	
7d	Any beneficiation process at mines	Not proposed.	Manual sorting is adopted.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Different size and grade of mineral are sorted out manually.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Stacked in seperate dump.	Top soil generated are stacked in seperate dump.	
8b	Concurrent use or storage of topsoil	Use for plantation.	Top soil generated during mining operation are stacked separately for afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps are proposed for waste and subgrade mineral.	Separate dumps are earmarked within the lease area for waste rock and sub grade mineral.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Not applicable.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Not applicable.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation not proposed.	Not applicable.	
8g	Survival rate	Plantation not proposed.	Not applicable.	
8h	Water sprinkling on roads to control airborne dust	Water spraying.	During inspection mine was closed therefore water spraying has not been observed.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			This is small mine and method of mining operation is carried out manually. During inspection no any adverse effect has been observed on aesthetic beauty in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lesse is submitting Monthly and Annual returns regularly.	Lesse is submitting Monthly and Annual returns regularly.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information furnished in annual return.	Information on Mining Engineer, Geologist and Manager furnished in annual return.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information furnished in Annual returns.	Information furnished on land use pattern, reclaimed area, dumps in annual return.	
9d	Scrutiny of Annual return on afforestation	Information furnished in annual return.	Information furnished in annual return.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information furnished in annual return.	Information furnished in annual return.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information furnished in annual return.	Information furnished in annual return.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information furnished in annual return.	Information furnished in annual return.
9h	Scrutiny of Annual return on fixed assets	Information furnished in annual return.	Information furnished in annual return.
9k	Scrutiny of Annual return on mining machineries	Information furnished in annual return.	Information furnished in annual return.

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 : 26.05.2016

Dayanand Upadhyay
(DAYANAND UPADHYAY) 25.05.2016

Indian Bureau of Mines

Note: No violations has been observed during inspection.

Dayanand Upadhyay
26.05.2016

दयानंद उपाध्याय
सहायक खान नियंत्रक