

**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 : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Manekar, Sr.DGM
Official with
Designation
- (iv) Date of Inspection : 08/09/2017
- (v) Prev.inspection date : 31/01/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NEW SATUK (16.84 HA)**
- (b) **Registration NO.** : **IBM/5711/2011**
- (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 : 30
- (d) Date of Expiry : 09/10/2030
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	:	Renewal under rule 22 MCR1960	29/04/2003
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13/10/2006
		Mining Scheme rule 12 MCDR1988	21/03/2012
		MP review under 17(1) MCR 2016	04/04/2017

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 boreholes	
1b	Exploration over lease area for geological axis 1 or 2	For geological axis 1	Borehole drilled to prove the ore zone 10 m below the 277 mRL.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Exploration carried out by M/s Maheswary Pvt. Ltd.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		Balance reserves as on 01.04.2017 is 28070 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Mine is presently temporary closed.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western side of lease area	As per proposal	
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	

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.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 Pit Proposed for production	As per proposal	
3b	Quantity of ROM mineral production proposed	2016-17 : Nil	ROM : 64 MT Clean Ore : 17 MT form Dump working	
3c	Recovery of sailable/usable mineral from ROM production	55%	As per proposal	
3d	Quantity of mineral reject generation	Nil	487 MT	
3e	Grade of mineral rejects generation and threshold value declared.	<10% Mn	As per proposal	
3f	Quantity of sub grade mineral generation.	Not Proposed	NA	
3g	Grade of sub grade mineral generation	Nil	Nil	
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 working pit is closed and bottom of the pit is waterlogged. It has been reported by the lessee 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.	As per proposal
3m	Total area covered under excavation/pits	1.73 Hectare	As per proposal
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, OB-3.13ha, Mineral storage-01.62ha	Area under pit-1.739 ha, OB-1.912ha, Mineral storage- ha ????
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 6237T 2013-14: 2898T 2014-15: 2426T 2015-16- Nil 2016-17- Nil	2012-13 : 6951T 2013-14 : 5520T 2014-15 : 1195T 2015-16- Nil 2016-17- ROM-64 (Clean Ore-17 MT)
3q	General remarks of inspecting officers on method of mining etc.	Opecast mining with manual and semi-mechanised method.	During inspection the mine was closed and bottom of the 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. ROM 64 tonnes from dump working.

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 reject.	
4b	Location of topsoil, OB and mineral reject dumps	Eastern side of lease	As per proposal	
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.	As per proposal	
4e	Number of active and alive dumps.	03 Dumps	As per proposal	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	NA	
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	Nil	Not Applicable	
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	Nil	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	After completion of extraction of ore	NA	
5d	Total area fully reclaimed and rehabilitated	Nil	NA	
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. No proposal in approved mining plan

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) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of air,water and noise is done	Quarterly monitoring of air,water and noise is done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Done as per approved document.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	Grade wise sorting within lease area	As per proposal.Mineral is sorted garde wise and dispatched within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines.	Yes	Yes, GRADE & MN %- >25%, 25-35% & 35-46%	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Gradewise sorting done in the mine area manually

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	NA	

8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste rock is dumped separately	As per proposal dump seperately	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Restoration will be done during mine closure period.	As per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional Plantation 100 Nos.	As per proposal	
8g	Survival rate	Nil	50%	
8h	Water sprinkling on roads to control airborne dust	Yes	Sprinklers and water tankers are deployed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto August 2017 A.R. not submitted for the year 2016-17. Violation of rule 45(1) and 45(5) issued on 15.11.2017 which complied.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information available as given in annual return	Found correct
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information available as given in annual return	found correct
9d	Scrutiny of Annual return on afforestation	Information available as given in annual return	Found correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information available as given in annual return	Found correct
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information available as given in annual return	Found correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information available as given in annual return	Found correct
9h	Scrutiny of Annual return on fixed assets	Information available as given in annual return	--
9k	Scrutiny of Annual return on mining machineries	Information available as given in annual return	-----

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 45(1)	03/10/2017	15/11/2017			
MCDR17	Rule 45(5)(c	03/10/2017	15/11/2017			

Date :

(S. M. DORLE)

Indian Bureau of Mines