

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine code : 40MSH14015

- (i) Name of the Inspecting : **K013**) **Kewal Krishan**
Officer and ID No.
- (ii) Designation : Sr Mining Geologist
- (iii) Accompanying mine : Shri Manoj kumar singh, DGM (Mines), Shri Anil Singh
Official with
Designation
- (iv) Date of Inspection : 14.7.2017
- (v) Prev.inspection date : 27/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SATUK**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : NAGPUR
Village : BELDONGRI
Taluka : PARSEONI
Post office : SATUK
Pin Code :
FAX No. :
E-mail :
Phone : 42160
- (f) Police Station :
- (g) First opening date : 25/02/1979
- (h) Weekly day of rest : SAT
2. Address for correspondence : P. O. - SATUK,
TAH.- PARASEONI,
DISTT.- NAGPUR (M. S.).

3. (a) Lease Number : MSH0078
 (b) Lease area : 8.68
 (c) Period of lease : 20
 (d) Date of Expiry : 30/06/2022
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 12/05/2003
 Plan/Scheme of Mining Modif.of approved Mining Plan 13/10/2006
 Mining Scheme rule 12 MCDR1988 07/07/2008
 Mining Scheme rule 12 MCDR1988 10/01/2012
 Mining Scheme rule 12 MCDR1988 10/01/2013
 MP review under 17(1) MCR 2016 11/08/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	nil	No area left for further exploration with in the lease
1e	Balance reserve as on 01/04/20	-	511329 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			No exploration proposals during the year 2016-17

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	O/c Dev for 2016-17 is 93700 cum	O/c Dev for 2016-17 is 10241 cum	Lessee informed that the shortfall in development is due to less demand of Mn ore in market
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil- 01 Ob-02 Mineral-01	Topsoil- 01 Ob-02 Mineral-01	Lessee informed that the shortfall in development is due to less demand of Mn ore in market
2c	Stripping ratio or ore to OB ratio	1:10	1:10	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	93700	10241	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Less than 50% of the proposed development has achieved for the year 2016-17

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	Quantity of ROM mineral production proposed 2015-16 is 36500 MT	Quantity of ROM mineral production proposed 2015-16 is 3108 MT (25%)	
3c	Recovery of sailable/usable mineral from ROM production	18250 (50%)	1108 (27%)	
3d	Quantity of mineral reject generation	4380 MT	8459 MT	
3e	Grade of mineral rejects generation and threshold value declared.	10-12 %	<12%	
3f	Quantity of sub grade mineral generation.	18250	1825	
3g	Grade of sub grade mineral generation	17-18%	17-18%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	Nil	nil	
3k	Provision of mining machineries in mineral benches	Nil	nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	3.27 Hectare	3.27 Hectare	
3n	Ore to OB ratio for the pit/mine during the year.	1:10	1:10	
3o	Total area put in use under different heads at the end of year	4.356 Hectare	4.356 Hectare	
3p	Production of ROM mineral during the last five year period as applicable	120184 MT	74261MT	
3q	General remarks of inspecting officers on method of mining etc.			Production is less due to less market demand. Recovery encounter of internal rack bands.

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	
4b	Location of topsoil, OB and mineral reject dumps	Dumped on footwall side of lease i.e north west	Dumped on footwall side of lease i.e north west	

4c	Number of dumps within lease area and outside of lease area	05 (waste & mineral reject dump)	As per proposal	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Worked as per proposal given.	Dump No. Area (Hect.) Height (M) Angle	
			TS/OB/MR/SGM	
			WD-1 8.00 70	MR 1.52
			WD-2 12	OB 0.49 72
			WD-3	OB 0.08 9 65
			BD-4	SGM 0.05 6 68
			BD-5	SGM 0.14 1.8 65
4e	Number of active and alive dumps.	3 Nos	3 Nos	
4f	Number of dead dumps.	02 Nos	02 Nos	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Garland drains already existing
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumps properly maintained

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Given for restoration of at end of mining	As per proposal	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal in 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)	Nil	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			As per approved mining plan

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	
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	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Storage area of different grade of mineral further needs to be improved by mine manageme

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	Nil	NA
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 in earmarked dumps	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Restoration will be done during mine closure period.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100	100
8g	Survival rate	Nil	Around 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		Quarterly monitoring of environmental parameters as per as per approved document is being done in core and buffer zones

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto June 2017 Annual return 2016-17 submitted		

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information given	Provided
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information given	Provided
9d	Scrutiny of Annual return on afforestation	Information given	Provided
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information given	Provided
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given	Provided
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information given	Provided
9h	Scrutiny of Annual return on fixed assets	Information given	Provided
9k	Scrutiny of Annual return on mining machineries	Information given	Found Provided

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

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(Kewal Krishan)

Indian Bureau of Mines