

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MPR/BGT/MN-47/NGP

Mine code : 40MPR01044

- (i) Name of the Inspecting : **SQ32**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 09-NOV-20
- (v) Prev.inspection date : 16-AUG-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LUGMA-UKWA (73.567H)**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Underground
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 02-MAR-07
- (h) Weekly day of rest :
2. Address for : 3, MOUNT ROAD EXTENSION,
correspondance NAGPUR
3. (a) Lease Number : MPR1802
- (b) Lease area : 73.57
- (c) Period of lease : 20
- (d) Date of Expiry : 13-SEP-25
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 24 MCR1960	08-MAY-06
Plan/Scheme of Mining		Modif.of approved Mining Plan	08-MAY-09
		MP modif under MCR 1960	13-OCT-16
		MP review under 17(1) MCR 2016	28-FEB-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	na	na	
1b	Exploration over lease area for geological axis 1 or 2	2019-20 (08 Nos. BH)	nil	violation is pointed out
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		G1-40.861 ha G2-28.72 ha	
1e	Balance reserve as on 01/04/20		111-536900T,BALACE RESOURCES-. Prefeasibility Mineral Resource (221)- 167125 , Measured Mineral Resource (331) 3093563 , Indicated Mineral Resource(332) 2804200	
1f	General remarks of inspecting officers on geology, exploration etc			There is manganese ore belonging to stratiform, stratabound deposit of regular habit. the ore body is explored by 23 bh. ore thickness varies between .27 to 6.10 mtr and of 3.03 mtr. the strike is N -300 to 85 o and S-350 to 650 and dipping in north west 20o to 300

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	1750' Level & 1650' Level	1750' Level & 1650' Level	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	na	na	UG mine
2c	Stripping ratio or ore to OB ratio	na	na	
2d	Quantity of topsoil generation in m3	na	na	
2e	Quantity of overburden generation in m3	na	na	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			This is ug mine.development in raise winze is done.and 6720 t waste is removed.haulage-493mtr/593,309/400 mtr in raise winze is done.Less development done.violation pointed out.mining is done by cut and fill stoping 30 mtr height.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	na	na	ug mine is done
3b	Quantity of ROM mineral production proposed	22000	9997	
3c	Recovery of sailable/usable mineral from ROM production	ROM -100%	Rom -100 %	

3d	Quantity of mineral reject generation	na	na	
3e	Grade of mineral rejects generation and threshold value declared.	na	na	
3f	Quantity of sub grade mineral generation.	na	na	
3g	Grade of sub grade mineral generation	na	na	
3h	Manual / Mechanised method adopted for segregating from ROM	na	na	all ROM ore is sold.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	na	na	
3j	Provision of drilling and blasting in mineral benches	na	na	ug mining
3k	Provision of mining machineries in mineral benches	na	na	ug mining
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
3m	Total area covered under excavation/pits	NA	NA	
3n	Ore to OB ratio for the pit/mine during the year.	NA (UG Mine)	NA (UG Mine)	

3o	Total area put in use under different heads at the end of year	NA (UG Mine)	NA (UG Mine)	0.8 waste .
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 5000 2018-19- 10000 2019-20- 22000	2017-18-1000 2018-19-7000 2019-20-9997	
3q	General remarks of inspecting officers on method of mining etc.			THIS IS ug mine worked by shaft and winder.stoping is done in stopes of height 30 mtrs and strike 40mtr s are developed.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA (UG Mine)	NA (UG Mine)	
4b	Location of topsoil, OB and mineral reject dumps	Ch-7700 to Ch-8000	Ch-7700 to Ch-8000	remaining waste from UG
4c	Number of dumps within lease area and outside of lease area	one	one	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	na	na	
4f	Number of dead dumps.	na	na	
4g	Number of dumps established.	one	one	
4h	Whether Retaining wall or garland drain all along dumps are there.	np	na	

4i	Length of Retaining wall or garland drain all along dumps	np	na	ug mine
4j	Number of settling ponds	na	na	
4k	Specific comments of inspecting officer on waste dump management			One yard of area 200 mtr by 20 mtr ,ht 5mtr is planned for storing waste from shaft.it is stocked there.

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.	Through Stoping - ug mining	Through Stoping - ug mining	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			It is ug mine.not applicable.backfilling of stopes done by sand.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		sumbitted.	
6b	Area available for rehabilitation (ha) .	na	na	
6c	afforestation done (ha).	na	na	
6e	Cumulative no .of plants	--	--	
6f	Any other method of rehabilitation	na	na	
6g	Cost incurred on watch and care during the year	na	na	there are no proposals for worked out benches.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	it is ug mine	is is ug mine	cut and fill mining practiced.sand used for backfilling.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	na	na	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	na	na	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	na	na	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	0.5 hect/1500 nos gap plantation	not done	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.5 hect	nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	na	na	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			There was proposal to do plantation in gaps in area of 0.5 hect 1500 nos). this was not done violation pointed out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade sorting	grade sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	1. UKL-448- 25% Mn 2. UK-4445- 37% Mn. UKF-532 (Fines) 25% Mn.	1. UKL-448- 25% Mn 2. UK-4445- 37% Mn. 3. UKF-532 (Fines) 25% Mn. 4 UKL-471 20%Mn.	
7d	Any beneficiation process at mines .	na	na	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sizing & sorting into different grades is done in mines.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	na	na	It is ug mine.not applicable.
8b	Concurrent use or storage of topsoil	na	na	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1 for waste rock	1 for waste rock	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	na	na	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na	It is ug mine.not applicable.backfilling of stopes done by sand.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		addittional -nil	violation given
8g	Survival rate	80%	nil	plantatation not done
8h	Water sprinkling on roads to control airborne dust	yes	done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			some plantation is green belt and mines area is observed in mines.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Madhur Kuhate (Mining Engineer) Shri Shubham Anjankar (Geologist)	Shri Madhur Kuhate (Mining Engineer) Shri Shubham Anjankar (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	0.8 hect dumps.		ug mine
9d	Scrutiny of Annual return on afforestation	nil	plantation not done	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil, no rejects		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	25%-35%- mn ore- stock- 394.230 tonsAs on 01.04.2020	stock given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production: - 8624.96 Grade Ex-mine Price 25%-35%- 6689.00, stock- 394.230 tons	provided	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets =159599751	Value and breakup given	

9k Scrutiny of PUMPS (ELEC.) list is provided.
 Annual return on 2200.000 L/MN
 mining ,3 Electrical
 machineries Underground,
 AIR
 COMPRESSOR-
 1000.000
 CUM/MN- 2-
 Electrical
 Underground,
 VENTILATION
 FAN 300.000
 CUM/H 2
 Electrical
 Underground
 BLAST HOST
 DRILL 32.000
 MM 15
 Electrical -
 Underground
 WINDING ENGINE
 (ELEC.)
 10000.000 KG 1
 Electrical
 Underground

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
MCDR17	Rule 26(2)	19-APR-21			
MCDR17	Rule 11(1)	19-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines