

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

Mining Plan Modification REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-36 /NGP

Mine code : 40MPR01041

- (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 : 17-JAN-20
- (v) Prev.inspection date : 17-FEB-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SUKLI (8.013H)**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : SUKLI
Taluka : KATANGI
Post office : SUKLI
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01-JAN-06
- (h) Weekly day of rest : MON
2. Address for :
correspondance :
3. (a) Lease Number : MPR0518
- (b) Lease area : 79.55
- (c) Period of lease :
- (d) Date of Expiry : 31-MAR-20
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	05-JUL-01
Plan/Scheme of Mining		FMCP under 23C(1)	14-JUN-07
		Renewal under rule 24 MCR1960	14-JUN-07
		Mining Scheme rule 12 MCDR1988	03-AUG-12
		MP modif under MCR 1960	31-AUG-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not applicable	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	NO PROPOSALS	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2			ONLY 9.19 HECT AREA IS WORKED. OTHER MAJOR AREA IN FOREST. GRAVITY AND MAGNETIC SURVEY IS DONE IN FOREST LAND.
1e	Balance reserve as on 01/04/20		RESERVES-111-18099 T, RESOURCES-333-130000T-AS ON 1/4/2020	IT IS CENTRAL CRYSTALLINE ZONE OF SAUCER SERIES. ORE IS PRESENT AS BANDS /POCKETS PATTERN IN BOTH DIP AND STRIKE .BANDS AND POCKET IN 15 TO 20MTR DIP IN LENGTH WITH 15 TO 30 MTR IN STRIKE LENGTH.
1f	General remarks of inspecting officers on geology, exploration etc			MAJOR AREA IS UNDER FOREST WHERE WORKING IS NOT ALLOWED.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	PIT NO. 5	PIT NO. 5	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES, IN WASTE AND MINERAL	IN WASTE AND MINERAL	
2c	Stripping ratio or ore to OB ratio	2.322, m3/t, OB: WASTE	2.44, , m3/t, OB: WASTE	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	19750	20 000 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			THE PIT NO5 IS WEEL DEVELOPED IN BENCHES OF 7MTR HT AND 9MTR WIDTH. SEPERATE BENCHES ARE MADE IN MINERAL. MECHANISED MINING IS DONE.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	8505 Tone	9450 Tone	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	15%	15%	
3e	Grade of mineral rejects generation and threshold value declared.	10-25%	10-25%	

3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	17-18%MN	17-18 % MN	AROUND 10 % OF ORE GENERATED FALLS IN THIS.IT IS STACKED FOR FUTURE USE.
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.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	DTH hammers of 100 mm by wagon drills	DTH hammers of 100 mm by wagon drills	
3k	Provision of mining machineries in mineral benches	By Shovel Dumpers	By Shovel Dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES ,IT IS SUITABLE	
3m	Total area covered under excavation/pits	7.56 HA	7.56 HA	
3n	Ore to OB ratio for the pit/mine during the year.	2.322163433 M3/T	2.34	WASTE: ORE,M3: T
3o	Total area put in use under different heads at the end of year	20.204 HA	20.204 HA	DUMPS,ROADS,PITETC

3p	Production of ROM mineral during the last five year period as applicable	2015-16=Nil 2016-17=405 T 2017-18=9720 T 2018-19=8505 T	2015-16=Nil 2016-17=432 T 2017-18=4141T 2018-19=8500 T	
3q	General remarks of inspecting officers on method of mining etc.			BENCHING HAS BEEN DONE.PIT IS DEVELOPED.MECHANISED MINING IS CARRIED OUT.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil Not Available. and SUBGRADE AND OB WASTE ARE DUMPED SEPERATELY.	Top Soil Not Available. and SUBGRADE AND OB WASTE ARE DUMPED SEPERATELY.	
4b	Location of topsoil, OB and mineral reject dumps	WITHIN LEASE.	WITHIN LEASE.	
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)	WITHIN LEASE.	WITHIN LEASE.	
4e	Number of active and alive dumps.	ONE	ONE	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	ONE	ONE	
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	20 MTR, ALONG DUMP 2	80 MTR,	

4j	Number of settling ponds	01	01	AT JIGGING PLANT
4k	Specific comments of inspecting officer on waste dump management			DUMP WORKING IS DONE.AFTER ORE REMOVAL MATERIAL IS PUT BACK.DRAIN AND BUND PROVIDED AT BOTTOM OF ACTIVE WASTE DUMP.AT NORTHERN BOUNDARY OF LEASE.

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.	NO BACKFILLING	NO BACKFILLING	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			NO BACKFILLING IS BEING DONE

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).		NOT SUBMITTED.VIOLATION ISSUED.
6b	Area available for rehabilitation (ha) .	NO PROPOSAL FOR WORKED OUT BENCHES	nA
6c	afforestation done (ha).	NO PROPOSAL FOR WORKED OUT BENCHES	NA
6d	No. of saplings planted during the year	NO PROPOSAL FOR WORKED OUT BENCHES	NA
6e	Cumulative no .of plants	NO PROPOSAL FOR WORKED OUT BENCHES	NA
6f	Any other method of rehabilitation	NO PROPOSAL FOR WORKED OUT BENCHES	NA
6g	Cost incurred on watch and care during the year	NO PROPOSAL FOR WORKED OUT BENCHES	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NO PROPOSAL	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NO PROPOSAL	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NO PROPOSAL	NA

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	YES	RESERVOIR MADE	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NO PROPOSAL	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	PROPOSED 100 PLANTS	100 PLANTS	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NOT MENTIONED	0.3 HECT	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NO PROPOSAL	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	PROPOSED	BEING DONE	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			ENV MONITORING IS DONE. water spraying is done. some pits are used for water storage.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SEPERATION.	grade wise seperation done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	
7c	Different grade of mineral sorted out at mines.	25-30% MN	25-30% MN	
7d	Any beneficiation process at mines .	not proposed	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			mined ore is sorted in various grades for marketability.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	250 m2	250m2	
8b	Concurrent use or storage of topsoil	concurrent	concurrent	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	waste rock	waste rock removed	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not proposed	na	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	not proposed	na	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not given	100 plants planted in year	
8g	Survival rate	not given	70%	
8h	Water sprinkling on roads to control airborne dust	proposed	done	trees are observed on waste land in mines area.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			trees are observed on waste land in mines area. water spraying is done on roads.

Compliance of Rule 45:

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

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	geologist-suryansu pani	violation issued for non appointment of mining engineer.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	oc working-7.3 hect,waste-11.092,infra-1.236 all in hect	
9d	Scrutiny of Annual return on afforestation	not given	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	850 T, 10-20 % mn	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	graded ore,25-35 Mn-748.5 t,35-46% Mn-0123.8 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	exmine price:6626 Rs35-46% Mn and 1255 forgraded ore,25-35 % Mn,cop-890 Rs /T	
9h	Scrutiny of Annual return on fixed assets	not given	
9k	Scrutiny of Annual return on mining machineries	pump-1200 LT/min	

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 55(1) (1	08-MAY-20	07-AUG-20				
MCDR17	Rule 26(2)	08-MAY-20	07-AUG-20				
MCDR17	Rule 45(1)	08-MAY-20	07-AUG-20				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines