

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

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-46/NGP

Mine code : 40MPR01043

- (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 : 29-OCT-20
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAM**
- (b) **Registration NO.** : **IBM/6485/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail : nvstrd@gmail.com
Phone : 9893650171
- (f) Police Station : Katangi
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : Jam Manganese Mine, khasra No. 747, village - Ja
correspondance : District- Balaghat (M.P.) - 481445
3. (a) Lease Number : MPR2123
- (b) Lease area : 8.09
- (c) Period of lease : 20
- (d) Date of Expiry : 06-NOV-22
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SHRI CHIMANLAL RAWAL
At & P.O. Tirodi Distt
Balaghat (M.P.) BALAGHAT
MADHYA PRADESH
Phone:
FAX :

Owner : SHRI CHIMAN LAL RAWAL
P.O. TIRODI BALAGHAT
MADHYA PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 06-NOV-00
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 12-MAR-09

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Not applicable	
1e	Balance reserve as on 01/04/20	At the end of Year 2020 111- 28508 211-3591 332-24381TONS	Not applicable	
1f	General remarks of inspecting officers on geology, exploration etc		Gondite belt of Sauser series of rock over length of 200 km. The waste in Mica scist and Magenese ore on Gondite. one body 2 mtr width	Gondite belt of Sauser series of rock over length of 200 km. The waste is Mica scist and Gondite.Magenese ore body has average width 2 mtr .

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit no -2	Pit no -1	violation is issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Over burden & mineral	Over burden & mineral	

2c	Stripping ratio or ore to OB ratio	1:4.8	1:4.6	
2d	Quantity of topsoil generation in m3	Nil	NIL	
2e	Quantity of overburden generation in m3	21560 m3	17500m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Benches 6 mtr height & 6 mtrs width are formed in mines. Tipper and Shovel are used for loading transportation in mines. working is done in pit 1. not as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	one	
3b	Quantity of ROM mineral production proposed	4783 Tone	3800 Tone	
3c	Recovery of sailable/usable mineral from ROM production	90%,yes	90%	
3d	Quantity of mineral reject generation	531 tone	380 tone	
3e	Grade of mineral rejects generation and threshold value declared.	<10% mn	<10% mn	
3f	Quantity of sub grade mineral generation.	Nil	Nil	

3g	Grade of sub grade mineral generation	Not applicable	Not applicable
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.	No	No
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtrs	6 mtrs
3m	Total area covered under excavation/pits	3.6 ha	3.320 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:4.8	1:23
3o	Total area put in use under different heads at the end of year	7.524HA	7.4 HA
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 3895.2 tone 2017-18 - 4909.5 tone 2018-19 - 4783.5 tone 2019-20 - 4783.5 tone	2016-17 - 3470 tone 2017-18 - 4800 tone 2018-19 - 4000 tone 2019-20 - 3800 tone

3q	General remarks of inspecting officers on method of mining etc.	Not applicable	Not applicable	Deep pit has been developed for mine working. (approx 30 Mtrs deep).bench height is 6mtr in waste.in ore it is upto 3mtrs.
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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 for OB and Mineral reject	Separate for Mineral reject	OB and
4b	Location of topsoil, OB and mineral reject dumps	On eastern side of the mine -mineral reject waste dump- 4nos- 1- south boundary-BP2-4- waste dump- 4nos- 1- south boundary-BP2-4-dumpno.2, 2-dump 3-north boundary-BP-6-7 3-dump no 1-westside-BP1,BP10. 4-dump4-BP8 to BP10	On eastern side of the mine -mineral reject waste dump- 4nos- 1- south boundary-BP2-4-dumpno.2, 2-dump 3-north boundary-BP-6-7 3-dump no 1-westside-BP1,BP10. 4-dump4-BP8 to BP10	
4c	Number of dumps within lease area and outside of lease area	Four (04)	Four (04)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the Pit,inside lease.	Inside the mine boundary.	
4e	Number of active and alive dumps.	One (01) Numbers	One (01) Numbers	
4f	Number of dead dumps.	Three (03) Numbers	Three (03) Numbers	
4g	Number of dumps established.	Four Number	Four Number	

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	1200Mtrs	1230 MTR	DDRAINS ARE MAINTAINED BELOW DUMPS.
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			Plantation have been done at waste dump with systematic garland drains.

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.	upto mineable depth	Done	
5b	Area under backfilling of mined out area	1990 m2	1700 m2	BACKFIILLING AND DUMPING ON BACKFILL AS PER PROPOSAL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	NA	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	Not applicable	An area of approx 0.7 Ha is backfilled and Dump is created on it.(as per approval).less space for OB.

 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).		Not submitted.	
6b	Area available for rehabilitation (ha) .	Not proposed.	Not applicable.	
6c	afforestation done (ha).	--	---	
6d	No. of saplings planted during the year	Not Proposed	200 NOS	
6e	Cumulative no .of plants	NP	NA	
6f	Any other method of rehabilitation	NP	NA	
6g	Cost incurred on watch and care during the year	NP	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		3 HECT PIT AREA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1990M2	1700M2	BACKFILL /DUMP ON IT AS PER PROPOSAL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NP	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NP	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NP	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NP	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NP	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NP	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	IT IS DONE FOR AIR ,WATER ETC

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	plantation on Barrier and waste dump is done.lot of plantataion done near mine office.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise Sorting	Grade wise Sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.		Below 25% Mn,25% to below 35% Mn,35% to below 46% Mn,46% Mn and above	ore is sorted in various grade of Mn percentage.
7d	Any beneficiation process at mines .	No	No	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	Not applicable	Only jigging and screening done and manual sorting.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	No top soil exist.	

8b	Concurrent use or storage of topsoil	Not proposed	No top soil exist	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste rock , mineral reject.	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Done	Internal dumps are formed on backfill.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No	200 plants additional	
8g	Survival rate		50%	
8h	Water sprinkling on roads to control airborne dust		Yes,	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	Not applicable.	Plantation is seen on dumps and mine periphery and near office.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		Submitted time to time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME-MR NAGENDRA PATHAK	Appointment of full time Geologist IS not reported.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.33 pit, 3.23 waste dump, .580 infra, 0.010 others.	with in FA limits.
9d	Scrutiny of Annual return on afforestation	200 plants, 50 % survival.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	not reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock-1775 t	1775 T stock
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production - 3318 Rs/ton, Sale price - Rs 3000 Tone to 22875 ton depending on grade.	Cop - 3318 Rs/ton, Sale price - Rs 3000 Tone to 22875 tone depending on grade.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets at end of year - 97,29,440	FA is given .
9k	Scrutiny of Annual return on mining machineries	Dumper 16 tone - 5 Shovel 0.9 m3 bucket -2 no. Front end loader - 0.50- one nos.	list of machinery given.

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			
MCDR17	Rule 31(4)	19-APR-21			
MCDR17	Rule 55(1) (3)	19-APR-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines