

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

MCDR inspection REPORT

Nagpur regional office

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

Mine code : 40MPR01043

- (i) Name of the Inspecting : **G007**) **PRASHAY GAJBHIYE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri A.N.Mishra Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 06-NOV-21
- (v) Prev.inspection date : 13-DEC-19

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 : 30
- (d) Date of Expiry : 06-NOV-52
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		Balance Reserve as on 01/04/2021 is 22808Ton.	
1f	General remarks of inspecting officers on geology, exploration etc			Area Already explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No.1.	Pit No.1.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed in seprated benches.	Seprated benches seen mines area. One IBench in ore and 3 Benches in OB	
2c	Stripping ratio or ore to OB ratio	1:27 .	Striping ratio is 1:27.	
2d	Quantity of topsoil generation in m3	Not Proposed.	Not Applicable.	

2e	Quantity of overburden generation in m3	34000Cub.	34000Cub.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Pit 1 is developed properly.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit are proposed.	One Pit is developed.	
3b	Quantity of ROM mineral production proposed	3662 Ton.	4800 Ton	
3c	Recovery of sailable/usable mineral from ROM production	90%	90% Recovery.	
3d	Quantity of mineral reject generation	360Ton.	360Ton.	
3e	Grade of mineral rejects generation and threshold value declared.	10%Grade.	10% Grade.	
3f	Quantity of sub grade mineral generation.	Not Proposed.	Not Proposed.	
3g	Grade of sub grade mineral generation	Not Proposed.	Not Applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanised.	Manual & Mechanised.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed.	Not Applicable.
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	6m. -Ore bench height 6m -Ob Bench height	6m. -Ore bench height 6m -Ob Bench height
3m	Total area covered under excavation/pits	3.321 Hact.	3.321 Hact.
3n	Ore to OB ratio for the pit/mine during the year.	1:27.	1:27.
3o	Total area put in use under different heads at the end of year	3.47 Hact.	3.47 Hact.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 3470 Ton. 2017-18 - 4800Ton. 2018-19 - 4000Ton. 2018-19 - 4000Ton. 2019-20 - 3800Ton. 2020-21 -3662 Ton. 2021-22 -3059 Ton.	2016-17 - 3470 Ton. 2017-18 - 4800Ton. 2018-19 - 4000Ton. 2019-20 - 3800Ton. 2020-21 -3662 Ton. 2021-22 -3050 Ton.

3q General remarks
of inspecting
officers on
method of mining
etc.

Method of Mining
is Machanised.

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	Inside the mine boundry NE , SW Side.	Inside the mine boundry NE, SW side.	
4c	Number of dumps within lease area and outside of lease area	03 Dumps. in Lease area	03 Dumps. in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside the mine boundary.	Inside the mine boundary.	
4e	Number of active and alive dumps.	01 Dumps.	01 Dumps.	
4f	Number of dead dumps.	02 Dumps.	02 Dumps.	
4g	Number of dumps established.	02 Dumps.	02 Dumps.	
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	1600meter.	1600meter.	
4j	Number of settling ponds	01 Settling ponds.	01 Settling ponds.	

4k	Specific comments of inspecting officer on waste dump management	01 Dumps is activate in mining working area.
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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.	Not Proposed.	Not Applicable.	
5b	Area under backfilling of mined out area	Not Proposed.	Not Applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed.	Not Topsoil Exists.	
5d	Total area fully reclaimed and rehabilitated	Not Proposed.	Not Applicable.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is not proposed.

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.	Violation Letter issued on 20/12/2021 under rule 26(2)

6b	Area available for rehabilitation (ha) .	Not Proposed.	Not Applicable.
6c	afforestation done (ha).	Yes.	Yes.
6d	No. of saplings planted during the year	1000 Saplings.	1000 Saplings.
6e	Cumulative no .of plants		3700 Plants cumulative data.
6f	Any other method of rehabilitation	Not Proposed.	Not Proposed.
6g	Cost incurred on watch and care during the year		35000 Rupees.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed.	Not Applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed.	Not Applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed.	Not Applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed.	Not Applicable.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed.	Not Applicable.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed.	Not Applicable.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed.	Not Applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed.	Not Applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not Proposed.	Not Applicable.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP Report 2020-2021 is not submitted.	Violation Letter issued on 20/12/2021, under rule 26(2)

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes.	Yes.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Maunal.	Manual processing is adopted at mine to Sorting and upgrade the ROM.	
7c	Different grade of mineral sorted out at mines.	Yes.	Yes.	
7d	Any beneficiation process at mines .		Crushing & Screening.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual processing is adopted at mine to Sorting and upgrade the ROM. No beneficiation plants are used for the purpose.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed.	Not Applicable.	
8b	Concurrent use or storage of topsoil	Not Proposed.	Not Applicable.	
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	Yes.	Yes.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed.	Not Applicable.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes.	Yes.	
8g	Survival rate	45%.	45%.	
8h	Water sprinkling on roads to control airborne dust	By Water tanker.	By Water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			mines area covered in Green Plants.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes.	Yes.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer Shri A.N. Mishra & Geologist Shailendra Kumar yadav already appointed.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes.	Covered under cut working area is 3.321 hact. Use of waist disposal area 3.230 Hact. Reclamaination/Rehabilit ation area is Nil. Work done in under PMCP during the year 8.091 Hact.
9d	Scrutiny of Annual return on afforestation	1000 Trees Planted in Mining Lease Area.	The Planted in seen is Mine area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	(a) Below 25% Mn (b) 25% to below 35% Mn (c) 35% to below 46% Mn (d) 46% Mn and above	(a) Below 25% Mn (b) 25% to below 35% Mn (c) 35% to below 46% Mn (d) 46% Mn and above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	2933 Ton Closing stock in as on 2020-21.	2933 Ton Closing stock in as on 2020-21.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	(Below 25% Mn) Sale Value is 2115 Rupees per ton to 2141 Rupees per ton (25 % Mn to below 35 % Mn) Sale Value is 7035.6094 Rupees per ton (35% Mn to Below 46 % Mn) Sale Value is 12297.578 Rupees per ton (46% Mn and above) Sale value is 15680.830 Rupees per ton.	(Below 25% Mn) Sale Value is 2115 Rupees per ton to 2141 Rupees per ton (25 % Mn to below 35 % Mn) Sale Value is 7035.6094 Rupees per ton (35% Mn to Below 46 % Mn) Sale Value is 12297.578 Rupees per ton (46% Mn and above) Sale value is 15680.830 Rupees per ton.

9h	Scrutiny of Annual return on fixed assets	19697225 Rupees	19697225 Rupees
9k	Scrutiny of Annual return on mining machineries	DUMPER 16 Ton is 6 Nos. SHOVEL (HYDRAULIC) 0.950 Cub meter is 02 Nos. FRONT END LOADER 0.5000 Cub meter is 01 Nos.	DUMPER 16 Ton is 6 Nos. SHOVEL (HYDRAULIC) 0.950 Cub meter is 01 Nos. FRONT END LOADER 0.5000 Cub meter is 01 Nos.

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 11(1)	20-DEC-21	19-JAN-22				
MCDR17	Rule 26(2)	20-DEC-21	19-JAN-22				

Date :

(PRASHAY GAJBHIYE)

Indian Bureau of Mines