

**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 : **SQ32** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 13-DEC-19
- (v) Prev.inspection date : 22-NOV-17

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JAM**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (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 :
- (h) Weekly day of rest :
2. Address for :  
correspondance
3. (a) Lease Number : MPR2123
- (b) Lease area : 8.09
- (c) Period of lease : 20
- (d) Date of Expiry : 07-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	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N/A	N/A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N/A	N/A	
1e	Balance reserve as on 01/04/20		24486 Tonne in 111	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc			There are no proposal for Exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No. 3	Pit No. 3	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes 6m waste 1.5 m ore	Maintained 6m benches in 1.5 m in ore	
2c	Stripping ratio or ore to OB ratio	1:4.3	1:4	
2d	Quantity of topsoil generation in m3	0	0	

2e Quantity of overburden generation in m3 22976 cu. m 21000 cu. m

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc The pit is well developed with two benches in work and 1 bench in ore.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	4783.00	4000	
3c	Recovery of sailable/usable mineral from ROM production	90%	91%	
3d	Quantity of mineral reject generation	10%	9%	
3e	Grade of mineral rejects generation and threshold value declared.	10% MN	Less than 10% MN	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	-	-	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Manual sorting

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	Drilling and Blasting is done
3k	Provision of mining machineries in mineral benches	Yes	Machines are used	Shovel and dippers are of 16 Tonne used
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	It is Suuitable
3m	Total area covered under excavation/pits	3.4 Hect.	3.32 hect.	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.3	1:4	
3o	Total area put in use under different heads at the end of year	Pit 3.4 hect. dump 3.23 hect., Infra 0.58	3.32 hect. dump 3.23 hect., Infra 0.58	
3p	Production of ROM mineral during the last five year period as applicable	18-19-4783	18-19-4000 T	
3q	General remarks of inspecting officers on method of mining etc.			The mine is properly developed by benching. The machinery is deployed and properly worked.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)			No Top soil simultaneously backfilling being done.
4b	Location of topsoil, OB and mineral reject dumps			No top soil dump. Mineral reject near boundary pillars
4c	Number of dumps within lease area and outside of lease area	04- waste 01- reject	04- waste 01- reject	Within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside	Outside	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	03	03	
4g	Number of dumps established.	04	04	
4h	Whether Retaining wall or garland drain all along dumps are there.	No	Yes	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	40 mtr mound	
4j	Number of settling ponds	Nil	One	
4k	Specific comments of inspecting officer on waste dump management			The dump on road side is having drain (dump 2). Only one dump is active.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Reaching ultimate depth	Yes, after ultimate depth	
5b	Area under backfilling of mined out area	2197 sq. m	2100 sq. m.	Dump over pit area
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No	No top soil	
5d	Total area fully reclaimed and rehabilitated	No	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The backfilling and dump on existing pit as per approved plan is being done to scarcity of dumping space for waste.

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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).	No	Report not submitted	Violation issued
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha) .	NA	NA	
6d	No. of saplings planted during the year	NA	NA	

6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	2197 SQ. M	2100 SQ. M	Backfilling is being in western side of lease
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste	waste	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on 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	NA	NA	



6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
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	It is being done for aie, water	Monitoring for air, water being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The backfilling in extreme western side of lease is being done.

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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	Grade wise sorting done
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Yes	Yes	+25 Mn, +25 Mn - 35 Mn , >35 Mn
7d	Any beneficiation process at mines .	No	No	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise manual sorting is done at mines
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**Environment:**


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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	No top soil
8b	Concurrent use or storage of topsoil	Na	Na	No top soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes for O/B and reject	Separate dumps	Separate dumps maintained
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes being done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	1500 Trees planted	Base line information given

8g	Survival rate	NA	25%	
8h	Water sprinkling on roads to control airborne dust	Yes	Being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The barrier plantation and some plantation near office is done by Lessee

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Compliance of Rule 45:

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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	Yes given for manager and geologists	Mining engineer not given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	0C WORKING- 3.32HECT,WASTE ,3.23, Occupied by plant, buildings, residential, welfare buildings & roads 0.580		The information is provided
9d	Scrutiny of Annual return on afforestation	1500 trees @ 25% survival		1500 trees @ 25% survival
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL,NO REJECTS	NO REJECTS	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	(a) Below 25% Mn 192.560 (b) 25% to below 35% Mn 42.670 (c) 35% to below 46% Mn 124.190 (d) 46% Mn and above 74.910	STOCKS GIVEN	stock of ROM -2512 tonne
		ROM-stock of ROM -2512 tonne		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	(a) Below 25% Mn 3000.00 (b) 25% to below 35% Mn 7600.00 (c) 35% to below 46% Mn 18500.00 (d) 46% Mn and above 22875.00	production cost -3150	
		EXMINE PRICE GIVEN IN RS /t, production cost -3150		
9h	Scrutiny of Annual return on fixed assets	Yes given, fa= 5723200	5723200	
9k	Scrutiny of Annual return on mining machineries	The list of machinery is given-DUMPER 16.000 TONNE 5 SHOVEL (HYDRAULIC) 0.950 CUM 2	2 shovel, 5 dumper	

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**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
Rule 26(1)	13-JAN-20	24-FEB-20			
Rule 46	13-JAN-20	24-FEB-20			

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines