

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/JBP/IRON-14

Mine code : 30MPR18011

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 22-OCT-21
- (v) Prev.inspection date : 17-MAR-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HRIDAYNAGAR**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working :
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : HRIDAYNAGAR
Taluka : SIHORA
Post office : GOASALPUR
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station : GOSALPUR
- (g) First opening date : 02-APR-10
- (h) Weekly day of rest :
2. Address for : SRI SHRIKANT PANDEY, MINE OWNER
correspondance : 50, GANDHIRANAM, SIHORA, JABALPUR M.P.
3. (a) Lease Number : MPR2281
- (b) Lease area : 4
- (c) Period of lease : 30
- (d) Date of Expiry : 28-SEP-40
4. Mineral worked : IRON ORE Main
MANGANESE ORE Associated
LATERITE Associated

5. Name and Address of the

Lessee : SHRIKANT PANDEY
 50, GANDHIR\GRANM
 (BURHAGAR) TEHSIL-SIHORA
 DISTT. JABALPUR (M.P.)
 JABALPUR MADHYA PRADESH
 Phone:09425800763
 FAX :NA

Owner : SHRIKANT PANDEY
 50, GANDHIR\GRANM
 (BURHAGAR) TEHSIL-SIHORA
 DISTT. JABALPUR (M.P.)
 JABALPUR MADHYA PRADESH
 Phone: NA
 FAX : NA

6. Date of approval of Mining	:	Modif.of approved Mining Plan	19-OCT-11
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	25-JUL-14
	:	Mining Scheme rule 12 MCDR1988	15-JUN-15
	:	MP review under 17(1) MCR 2016	21-AUG-20

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	The entire lease area has been already explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The entire lease area has been explored upto G1 level	The entire lease area has been explored upto G1 level	
1e	Balance reserve as on 01/04/20		122=7401 tonnes (Iron) 122=2424 tonnes (Manganese) 122=1183997 tonnes (Laterite) as on 01.04.2021	
1f	General remarks of inspecting officers on geology, exploration etc			The iron ore in the lease occurs in the lease in a contact zone with phyllite. The strike is almost East west and dipping towards North. The iron band occurs below the band of laterite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to develop the area towards the south west portion of the lease area	south west portion of the lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate bench in topsoil and overburden proposed as no topsoil in the lease and waste occurs as phyllite interburden.	No separate bench in topsoil and overburden as no topsoil in the lease and waste occurs as phyllite interburden.	
2c	Stripping ratio or ore to OB ratio	1:0.008	1:0.009	
2d	Quantity of topsoil generation in m3	Not proposed	Nil	
2e	Quantity of overburden generation in m3	835	500	Violation pointed out under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The deposit has Laterite and Iron ore. The laterite is overlaying the iron ore bed. Majority of excavation is in laterite zone.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	96860 tonnes (laterite 93984 tonnes and Iron ore 2298 tonnes & Mn-578)	52898 tonnes (laterite 50600 tonnes and Iron ore 2298 tonnes & Mn-578)	Violation pointed out under rule 11(1) of MCDR 2017.

3c	Recovery of sailable/usable mineral from ROM production	ROM is proposed to be dispatched from the lease.	ROM is dispatched from the lease
3d	Quantity of mineral reject generation	No proposal	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not done
3j	Provision of drilling and blasting in mineral benches	No provision of drilling and blasting in the mineral benches.	None seen at the mine. The ore is friable and soft in nature and is digged by machinery without drilling and blasting.
3k	Provision of mining machineries in mineral benches	yes	SHOVEL (HYDRAULIC) 0.900 CUM 1 no DUMPER 10.000 TONNE 2 nos
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		03 nos of benches of height varying between 2-3 m found. The height is suitable for the soft formation.

3m	Total area covered under excavation/pits	2.85 ha	2.66 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.008	1:0.009	
3o	Total area put in use under different heads at the end of year	3.61 ha	2.95 ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17=84410 2017-18=79790 2018-19=145200 2019- 20=108680 2020- 21=96860	2016-17=600 2017-18=22000 2018-19=0 2019-20=12250 2020-21=52898	
3q	General remarks of inspecting officers on method of mining etc.			Violation of rule 11(1) of MCDR 2017 issued for not achieving the ROM as per approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	OB generated in backfilled in the barrier zone	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside of lease area	No proposal for external dumping.	No dumping done	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	

4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not seen	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			The generated OB is used in the 7.5m barrier zone.

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.	full extraction of mineral proposed before starting backfilling	full extraction of mineral adopted before starting backfilling	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No topsoil generation proposed during the year	NA	
5d	Total area fully reclaimed and rehabilitated	Not proposed	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No specific comments as only 500 cubic meter of OB is achieved & the same is used in the 7.5m barrier zone.
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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).	yes	Nil	Violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	PMCP report not submitted	Violation pointed out under rule 26(2) of MCDR 2017.
6d	No. of saplings planted during the year	Nil	50 trees (within lease) planted during the year	
6e	Cumulative no .of plants	Nil	100 approx.	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	Not available	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Nil
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.	Not proposed	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)	Proposed	carried out

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Yearly report in respect of reclamation and rehabilitative works carried out has not been submitted for the year 2020-21. Violation pointed out under rule 26(2) of MCDR 2017.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM dispatch adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Not done	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	Not Proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The Laterite and Iron ore fines are dispatched from the lease as ROM. No beneficiation process adopted.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil generation proposed	Not done
8b	Concurrent use or storage of topsoil	NA	NA
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for Overburden , waste rock , reject and fines dumping.	Not done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	overburden generated is proposed to be used in future backfilling	overburden used for backfilling in 7.5 m barrier zone
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	Phased restoration, reclamation and rehabilitation of lands affected by mining operations adopted
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	50nos saplings planted within lease
8g	Survival rate	Not proposed	70%
8h	Water sprinkling on roads to control airborne dust	Water spraying on mines haul road, loading, unloading points proposed.	Carried out.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The lease is situated on a small hill hock surrounded by few habitats.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	AR and MR submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Mining Engineer in charge Mr. SHRIKANT PANDEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	submitted	As per the submitted returns, the total land put to use is 2.95 hect.	
9d	Scrutiny of Annual return on afforestation	given	50nos of saplings within lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	As per submitted return, the ROM closing stock is 25.78 tonnes of Iron ore 21993.180 tonnes of laterite 514.425 tonnes of manganese.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Ex. Mine price =Rs.150	

9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	given	SHOVEL (HYDRAULIC) 0.900 CUM 1 no DUMPER 10.000 TONNE 2 nos

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

Date :

(ROBERT SIMON C)

Indian Bureau of Mines