

MCDR-MiFLOFE/3/2022-JBP-IBM_RO_JBP
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/31032/2024

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/JABALPUR/IRONORE-18

Mine code : 30MPR18018

- (i) Name of the Inspecting : C004) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Shrikant Pandey, Mine Manager & Lessee
Official with
Designation
- (iv) Date of Inspection : 31-JAN-24
- (v) Prev.inspection date : 28-FEB-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : HRIDEYANAGAR IRONORE 4.67
- (b) Registration NO. :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : JABALPUR
Village : HRIDEYANAGAR
Taluka : SIHORA
Post office : HRIDEYANAGAR
Pin Code : 483222
FAX No. :
E-mail : shrikantpandey1969@gmail.com
Phone : 9425800763
- (f) Police Station :
- (g) First opening date : 01-DEC-14
- (h) Weekly day of rest : SUN
2. Address for
correspondance :
3. (a) Lease Number : MPR2432
(b) Lease area : 4.67
(c) Period of lease : 20
(d) Date of Expiry : 18-MAR-34
4. Mineral worked : IRON ORE Main
LATERITE Associated
MANGANESE ORE Associated

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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:
9425800763
FAX : NA

6. Date of approval of Mining : MP review under 17(1) MCR 2016 11-DEC-18
Plan/Scheme of Mining

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PART - II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

EXPLORATION :

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	3 boreholes were proposed	6 no. of core bore holes has been drilled during 2022-23 year.	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NA	
1c	Exploration Agency	On contractual basis	On contractual basis Expenditure incurred Rs 7,00,000 /-	It Includes Exploration & Chemical Analysis Charges
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	
1e	Balance reserves as	Iron ore -63942T Manganese-622T	*Iron ore-81935t Manganese-7206t	Balance reserves are given up to 2022-23
1f	General remarks of Inspecting officer 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
2a	Location of Development w.r.t. lease area	South centre part of the lease area	South centre part of the lease area	-
2b	Separate benches in topsoil overburden and mineral (Rule 15)	5 benches were proposed during the proposal period.	5 benches were during the proposal period.	-
2c	Stripping ratio or ore to OB ratio	1 :0.90	1:0.86	-
2d	Quantity of topsoil generation in m ³	Nil	-	No top soil is present
2e	Quantity of overburden generation in m ³	9128	9360	

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2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	During the inspection, excavations were found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillars nos. BP-17 to BP-15, BP-08 to BP-05 & BP-03 to BP-01. Further, dumping of overburden material found beyond mining lease near BP-42 to BP-44. Hence Violation pointed out under Rule 11(1) of MCDR 2017.
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Exploitation :

Sl.No.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	2 pits were proposed for production	3 pits	During last plan there were present which were proposed to be merged.
3b	Quantity of ROM production proposed (2022-23)	20882t	20882t	
3c	Recovery of Salable/usable mineral from ROM production	Iron ore -100% Manganese ore-20%	Iron ore -90% Manganese ore-35%	Recovery is based on recovery test
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No mineral reject generation
3f	Quantity of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3g	Grade of sub-grade mineral generation	Nil	Nil	No sub-grade mineral generation
3h	Manual/Mechanized method adopted for segregation from ROM	manual	manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	No sub-grade mineral generation
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	Manual working was proposed.

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3k	Provision of mining machineries in mineral benches	Manual mining was proposed	Manual mining was proposed		
3l	Whether height of benches in OB and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes		
3m	Total area covered under excavation /pits	1.2508	1.39		
3n	Ore to OB ratio for the pit/mine during the year	1 :0.90	1:0.86		
3o	Total area put in use under different heads at the end of year	3.0653	2.69		
3p	Production of ROM mineral during last five-year period, as applicable	2018-19	23430t	11700t	
		2019-20	19795t	12400t	
		2020-21	24782t	19600t	
		2021-22	26560t	26290t	
		2022-23 (till date)	20882t	20882t	Upto year 2022-23
3q	General remarks of inspecting officer on method of mining etc	During the inspection, excavations were found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillars nos. BP-17 to BP-15, BP-08 to BP-05 & BP-03 to BP-01. Further, dumping of overburden material found beyond mining lease near BP-42 to BP-44. Hence Violation pointed out under Rule 11(1) of MCDR 2017.			

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Solid waste management-dumping :

Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Generated waste quantity was proposed to be kept towards NE corner	Dumping of overburden material found beyond mining lease near BP-42 to BP-44	Violation pointed out under Rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB & mineral reject dumps	NE corner of the lease	NE corner	
4c	Number of Dumps within lease area and outside lease area	2	1	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	North and NE corner	NE part of lease area	
4e	Number of Active & Alive dumps	2	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps established	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	-	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	-	
4j	Number of settling ponds	Not proposed		
4k	Specific commends officer on waste dump management	Dumping of overburden material found beyond mining lease near BP-42 to BP-44. Violation pointed out under Rule 11(1) of MCDR 2017.		

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Solid waste management-backfilling :

Sl.No.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	75m2 mined out area over 7.5m barrier zone	Nil	
5b	Area under backfilling of mined out area	75m2	Nil	
5c	Concurrent use of Topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully rehabilitated	Nil	-	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc			

Progressive mine closer plan

Sl.No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Annual report on PMCP has been Submitted.	
6b	Management of worked/mined out benches	Nil	NA	
	i)Area available for rehabilitation (Ha)	Nil	NA	

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	ii) Afforestation done (ha)	0.06	0.12	Plantation has been done on southern part of lease & lessee's private land adjoining to lease area.
	iii) No. of saplings planted during the year	100	350	
	iv) Cumulative no. of plants	500	930 (approx.)	
	v) Any other specific method of rehabilitation	Nil		Nil
	vi) Cost incurred on watch & care during the year	Not proposed	60000/-	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer	Not proposed	Nil	

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	zone)			
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

Mineral conservation :

Sl.No.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting proposed	Manual sorting done	
7c	Different grade of mineral sort out at mine	IRON ORE-Avg. 55%-Fe ₂ O ₃ MANGANESE ORE- below 25%	IRON ORE-Avg. 55%-Fe ₂ O ₃ MANGANESE ORE- below 25%	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

ENVIRONMENT

Sl.No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	There is no topsoil	Nil	
8b	Concurrent use or storage of topsoil	There is no topsoil	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Generated waste quantity was proposed to be kept towards NE corner	compiled	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generated waste was proposed to be used for backfilling during conceptual period		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Green belt was proposed to be developed	Around 500plants has been planted in lease area and surroundings	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	70 nos of saplings planted.	Plantation has been done on lessee's private land adjoining to lease area.
8g	Survival rate	80%	50-70%	
8h	Water sprinkling on roads to control airborne dust	yes	Regular Water sprinkling on roads to control airborne dust is in practice by lessee's water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area needs improvement.		

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Compliance of rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Annual returns submitted on : 28.06.2023 Monthly returns submitted till Dec by the 10 th of every reporting month	Returns are submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The details wrt to Mining Engineer in charge & Geologist in charge were not furnished.		Violation pointed out under Rule 45(7) of MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 1.251 1.251 (ii) Covered under current (O-C) Workings 0.000 0.000 0.000 (iii) Reclaimed-rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.450 0.450 (vi) Used for any other purpose (specify) Road 0.000 0.260 0.26	
9d	Scrutiny of Annual return on afforestation	Given	Trees planted-survival rate Description Within lease area Outside lease area	

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			<p>i) Number of trees planted during the year 70 130</p> <p>ii) Survival rate in percentage 80 60</p> <p>iii) Total no. of trees at the end of the year 170 230</p>	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore		<p>Cement grade limestone</p> <p>Opening stock : Nil</p> <p>Production : 19286 (Iron Ore) & 1596 (Mn)</p> <p>Closing stock : Nil</p>	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Given	<p>Cost of production - Rs.386 Ex mine price- Rs.416 (Iron Ore) & Rs.533 & Rs.500 (Mn Ore)</p>	
9i	Scrutiny of Annual return on Fixed assets	Nil	The Value of Fixed Asset is mentioned as "Nil"	Violation pointed out under Rule 45(7) of MCDR 2017.
9k	Scrutiny of Annual return on mining Machineris		The details wrt to the type of Machinery deployed during the year is incorrectly furnished.	Violation pointed out under Rule 45(7) of MCDR 2017.

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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
Rule 11(1)	15-APR-24				
Rule 31(4)	15-APR-24				
Rule 33	15-APR-24				
Rule 45(7)	15-APR-24				

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines

