

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-38A/NGP

Mine code : 40MPR01027

- (i) Name of the Inspecting : **C005**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 17-JUN-21
- (v) Prev.inspection date : 29-SEP-13

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAGANTOLA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : JAGANTOLA
Taluka : BAIHAR
Post office : RUPJHAR
Pin Code : 481103
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 17-FEB-97
- (h) Weekly day of rest : FRI
2. Address for : URLA INDUSTRIAL COMPLEX
correspondance : RAIPUR - 493 221
CHG
3. (a) Lease Number : MPR2155
- (b) Lease area : 6.26
- (c) Period of lease : 30
- (d) Date of Expiry : 03-NOV-46
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S HIRA POWER AND STEELS LTD.
 URLA INDUSTRIAL COMPLEX
 RAIPUR RAIPUR CHHATTISGARH
 Phone:
 FAX :

Owner : SHRI V.K.AGRAWAL
 M/S JAIN CARBIDE &
 CHEMICALS LTD. URLA
 INDUSTRIAL COMPLEX RAIPUR
 RAIPUR CHHATTISGARH
 Phone:
 FAX :

Agent : SHRI S.S. CHAKRABORTY
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	18-AUG-99
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	01-JUL-02
		Fresh under rule 22 MCR1960	31-MAY-04
		Modif.of approved Mining Plan	16-FEB-06
		Mining Scheme rule 12 MCDR1988	31-MAR-09
		Mining Scheme rule 12 MCDR1988	22-DEC-14

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	area already explored under G1	area already explored under G1	
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	Nil	Nil	
1e	Balance reserve as on 01/04/20	G1- 63,287.15 tonnes	G1- 63,287.15 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	All four UG levels(level 1,2,3&4)	All four UG levels(level 1,2,3&4)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1:0.21	1:0.37	
2d	Quantity of topsoil generation in m3	NA	NA	

2e	Quantity of overburden generation in m3	2970	1900
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	All four UG levels(level 1,2,3&4)	All four UG levels(level 1,2,3&4)	
3b	Quantity of ROM mineral production proposed	13860 tonnes	5088.610 tonnes	violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	1109 cubicmeter	600 cubicmeter	
3e	Grade of mineral rejects generation and threshold value declared.	reject proposed utilized for stowing.	reject utilized for stowing.	
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposals	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	NA	
3j	Provision of drilling and blasting in mineral benches	Proposed	drilling & blasting in UG faces and workings carried out.	
3k	Provision of mining machineries in mineral benches	not proposed	UG mining carried out by manual means	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
3m	Total area covered under excavation/pits	3.4 ha	3.4 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.21	1:0.37	
3o	Total area put in use under different heads at the end of year	4.13 ha	4.13 ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 13860 2017-18 13797 2018-19 13797 2019-20 13860 2020-21 13860	2016-17 647 2017-18 6317 2018-19 10160 2019-20 5429 2020-21 5088	
3q	General remarks of inspecting officers on method of mining etc.			UG cut and fill mining method adopted. Sand stowing is practised.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Not done	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside of lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			UG cut and fill mining method is adopted. Waste generated in used in stowing of voids created in UG.

Solid Waste Management - Backfilling:

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.	Void stopes will be Backfilled/stowed.	Stowing/backfilling carried out	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Stowing carried out after stoping.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Not submitted	violation pointed out under rule 26(2) of MCDR 2017.
6b	Area available for rehabilitation (ha) .	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed	yearly monitoring done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	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.	Not Proposed	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Waste generated is simultaneously used for stowing	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	As per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		PMCP report not submitted	violation pointed out under rule 26(2) of MCDR 2017.
8g	Survival rate	not proposed	85% as per Annual Return.	
8h	Water sprinkling on roads to control airborne dust	NA	NA	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted till May 2021 A.R. submitted for 20-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Manager Shri Milind Patwardhan Mining Engineer in charge Shri Mahesh Choudhry Geologist in charge Shri Mahesh Choudhry	Information in respect of Mining Engineer is furnished incorrectly. Violation pointed out under rule 45 of MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Already exploited & abandoned by opencast (O/C) mining 3.400 Used for waste disposal 0.400 Occupied by plant, buildings, residential, welfare buildings & roads 0.520 Other Purpose (Green Belt) 0.880	Lease area (surface area) utilisation as at the end of year (hectares) is not matching with that of the approved documents. Violation pointed out under rule 45 of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	given	Number of trees planted during the year =500nos. Survival rate in percentage= 85	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	submitted	2035 tonnes	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	Closing stock at mine head is 1067.690 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Ex-mine price is 2854.00 rupees.	
9h	Scrutiny of Annual return on fixed assets		Nil	

9k	Scrutiny of given	GENERATOR (DIESEL)
	Annual return on	125.000 KWH 1 Non
	mining	Electrical
	machineries	PUMPS (ELEC.) 900.000
		L/MN 3 Electrical
		AIR COMPRESSOR 8.500
		CUM/MN 2 Electrical

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)	03-AUG-21			
MCDR17	Rule 26(2)	03-AUG-21			
	Rule 45(7) (i)	03-AUG-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines