# INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

#### Review and updation of Mining Plan REPORT

#### Jabalpur regional office

Mine file No : MP/JBP/LAT-16 Mine code : 75MPR18015

(i) Name of the Inspecting: NQO8 ) KATHROJU NAVEEN

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : Shri Rakesh Chowbey Q.P and Shri Nagesh Kushwal Lesse

Official with Designation

(iv) Date of Inspection : 21-DEC-22
(v) Prev.inspection date : 12-OCT-18

#### PART-I : GENERAL INFORMATION

1. (a) Mine Name : KURRA (7.30 HA)

(b) Registration NO. :

(c) Category : A Other than Fully Mech.

(d) Type of Working : Opencast

(e) Postal address

State : MADHYA PRADESH

District : JABALPUR
Village : KURRA
Taluka : SIHORA
Post office : PIPARIA
Pin Code : 483220
FAX No. : NIL
E-mail : NIL

Phone : 94251500837/ 07624-265026

(f) Police Station : SIHORA
(g) First opening date : 01-MAR-00

(h) Weekly day of rest : SUN

2. Address for : SHRI VINOD KUMAR SHRIVASTAVA

correspondance P.O. GANDHIGRAM (BUDAGAR), DIST. JABALPUR (M.P.)

3. (a) Lease Number :

(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :

(a) bacc of inpity

4. Mineral worked : LATERITE Main

MANGANESE ORE Associated

5. Name and Address of the

Lessee : VINOD KUMAR SHRIVASTAVA

P.O.GANDHI GRAM,

TAH.SIHORA, JABALPUR

MADHYA PRADESH

Phone: 94251500837/ 07624-265026

FAX :NIL

Owner : VINOD KUMAR SHRIVASTAVA

P.O.GANDHI GRAM,

TAH.SIHORA, JABALPUR

MADHYA PRADESH

Phone: 94251500837/ 07 FAX : 07624-265026

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 20-JUL-09 Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 06-MAY-15 MP review under 17(1) MCR 2016 30-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

### Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	9 No's of PBH during 2018- 19	8 No's PBH Completed during the Year 2021-22	
1b	Exploration over lease area for geological axis 1 or 2		G-15.50 ha G-21.80 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	3.5-4.0	4.15 & Om Tiger Consultancy and Research Centre	
1d	Balance area to be explored to bring Geological axis in 1 or 2	7.30 ah	1.80 ha need to be explored further to bring the entire under G1 axis.	
1e	Balance reserve as on 01/04/20	4,36,775 T	4,36,775 T	As per the last approved document the total Mineable reserves were 5, 38,791 T out of which 1, 02,016 T were proposed to be exploited by the 01/04/22. But the achievement was 75,799 T hence the balance reserves as on 01.04.2022 were 4,63,011 T

### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E412734- E412929 N2598105- N2598210	Working done as per Proposal	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches were proposed to be made in laterite and manganese Bearing formation.	Separate Benches are maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.80  Proposed Mn production is 9491 Cu.m i.e 30371 T And the proposed waste generation is 37802 Cu.m	1:0.80 as per the proposed	26065T of Mn produced corresponding to the Waste generation of 32210 Cu.m.
2d	Quantity of topsoil generation in m3	No top soil is present	Not Applicable	manganese Deposit is being covered by the latterite capping on hily terrain.
2e	Quantity of overburden generation in m3	37802 m3 of intercalated waste generation proposed with phyllitic formation.	32210 m3 of intercalated waste reported for the RY	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			26065T of Mn produced corresponding to the Waste generation of 32210 Cu.m. Development was as per the proposal.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	One	

3b	Quantity of ROM mineral production proposed	30371T of Manganese ore proposed for the RY	26065 T of Manganese ore producced against the proposed 30371 T during the RY
3c	Recovery of sailable/usable mineral from ROM production	20%	20.18 % al, most in line with the proposed recovery with the reported deatils.
3d	Quantity of mineral reject generation	Not Proposed	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil
3f	Quantity of sub grade mineral generation.	Not proposed	NIL
3g	Grade of sub grade mineral generation	Not proposed	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Segregation is proposed	mineral is being scrteened for sorting accoring to size and later manual method for segregating phyllitic waste from manganese ore.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3ј	Provision of drilling and blasting in mineral benches	Not proposed	Not Applicable
3k	Provision of mining machineries in mineral benches		Excavator and trucks were being used for exploiting the mineral.

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	rite capping	Bench heights were found not systematically maintained	Bench width and heights were not systematically maintained for which violation has been issued under rule 11(1) of the MCDR 2017.
3m	Total area covered under excavation/pits	2. 87 area was proposed under excavation during the proposal period.	2.48 ha Area was covered under pits.	As per the submitted drone data only 2.48 ha is under pits.
3n	Ore to OB ratio for the pit/mine during the year.		1:0.80 wasreported corresponding to the Manganese production of 26065T and the Intercalated waste generation of 32210 Cu.m	
30	Total area put in use under different heads at the end of year	5.08 ha area ws proposed to put in sed under various heads.	4.47 ha is put under use as per the reported data.	
3p	Production of ROM mineral during the last five year period as applicable		2017-183747T 2018-1920638T 2019-2016295T 2020-2112782 20T21-2226065T 2022-23(till date)15135 T	Only 26065 T of Mn produced against the proposed 9491Cu.m for which violation was issued under Rule 11(1) of MCDR 2017

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

Only 26065 T of Mn produced against the proposed 9491Cu.m for which violation was issued under Rule 11(1) of MCDR 2017

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil is present seperate benches proposed in laterite and Manganese.	No top soil is present seperate beches mainting in latterite and Manganese ore.	
4b	Location of topsoil, OB and mineral reject dumps	Western part of the lease area	Waste Dump-WD-3 and Waste dump-WD-4 are found extended beyond the lease boundary on Eastern side and Waste dump-WD-5 and Stack-1 encroached the lease boundary on the southern side of the lease.	
4c	Number of dumps within lease area and outside of lease area	One	Two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Western part	Extended beyond the lease on eastern side	
4e	Number of active and alive dumps.	one	two	
4 f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	

4i	Length of Retaining wall or garland drain all along dumps	_	Nil	
4 j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on wastedump management			Waste Dump-WD-3 and Waste dump-WD- 4 are found extended beyond the lease boundary on Eastern side and Waste dump-WD- 5 and Stack-1 encroached the lease boundary on the southern side of the lease.

## 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	Nil	
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)	Not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Nil	

5e General remarks of inspecting officers on backfilling and reclamation etc.

Mineral is not completely exploited hence backfilling neither proposed nor carried on. Generated intercalated waste dumped on the eastern side of the lease extended beyond the lease boundary for which violation has been issued.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be Submitted.	Not Submitted	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	0.1125 ha	Nil	
6d	No. of saplings planted during the year		200 saplings were planted during the RY	
6e	Cumulative no .of plants		600	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Not Avaialble	NA	

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) Afforestati on on backfilled area	Not	proposed	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not	proposed	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not	proposed	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not	proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not	proposed	Nil

60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	nil	
бр	Compliance of environmental monitoring (core zone and buffer zone)		Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			yearly report setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan, has not been submitted for which violation has been issued under rule 26(2) of MCDR- 2017.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	-	Mechanised screening for sorting according to the size and then manual sorting is beimg performed for segregating the Manganese.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	manual	Manual method of sorting observed.	
7c	Different grade of mineral sorted out at mines.	Not proposed	Nil	

7d	Any beneficiation process at mines	Not proposed	Dry Screening Observed for sorting according to size.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting and dry screening was observed at the mines for size sorting.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	_	Nil	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping was proposed	Waste Dump-WD-3 and Waste dump-WD-4 are found extended beyond the lease boundary on Eastern side and Waste dump-WD-5 and Stack-1 encroached the lease boundary on the southern side of the lease. Maintenance.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed to be dumped	As proposed	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	As proposed	200 sapling planted toward south to east boundary.	
8g	Survival rate	Not proposed	80%	
8h	Water sprinkling on roads to control airborne dust	sprinkling was	Water sprinkling is being carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Waste Dump-WD-3 and Waste dump-WD- 4 are found extended beyond the lease boundary on Eastern side and Waste dump-WD- 5 and Stack-1 encroached the lease boundary on the southern side of the lease. Maintenance. Against which violation was issued.

# Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and		Monthly and Annual returns are being submitted in time	
	Annual returns			

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge ABHISHEK KUMAR Geologist in charge SOURABH BANKEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Workings 2.762 Used for waste	
9d	Scrutiny of Annual return on afforestation	Given	200 sapling were reported in Annual returns.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	not given	No mineral reject generation found
9f	Scrutiny of Annual return on ROM stock and/or graded ore	laterite stock	stock details given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	is 1800	Sale value & Ex Mine Price is 1800 Production cost is 1205.03  Ex mine price of laterite Is 220
9h	Scrutiny of Annual return on fixed assets	Not reported	
9k 	Scrutiny of Annual return on mining machineries		Not reported .

# Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule 1	NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	03-JAN-23			
MCDR17	Rule 12(4)	03-JAN-23			
MCDR17	Rule 26(2)	03-JAN-23			
MCDR17	Rule 31(4)	03-JAN-23			
MCDR17	Rule 37(2)	03-JAN-23			

Date : (KATHROJU NAVEEN)

Indian Bureau of Mines