## MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Madhavrao Sabre
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Shri Rajesh Rawal, Agent,
4	Date of Inspection	09/11/2022
5	Previous Inspection date	06/11/2021

## Part-I: General

S.No	Particulars	Details	
1	Name of the Mine	Jam Manganese Ore Mine	
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	8.097 Ha (Non forest)	
3	Mine code	40MPR01043	
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/6485/2011	
5	Name of the lessee, Address, Phone, email and fax number	Ms. Namrata Dilip upadhyaya WN.6, tirodi, Katangi, <u>nvstrd@gmail.com</u> , 9424606081	
6	Village	Jam	
7	Taluka/Mandal	Katangi	
8	District	Balaghat	
9	Pin code	481449	
10	State	Madhya Pradesh	
11	Post Office	Katangi	
12	Nearest Police Station	Katangi	
13	Nearest Railway Station	Katangi	
14	Date of opening of Mine	07/11/2022	
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	W/N/h firodi Kajandi nvetrd/d/dmail.com	
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Rajesh Rawal, <u>rajeshrawal09@gmail.com</u> , 7869467938	
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri AN Mishra	
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Yogesh Thakre, BE Mining	
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Shiynarayan Banshkar	
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Modified Mining plan approved vide No. E 2246 MCDR-MPC0Mn/3/2022-JBP-IBM_RO_JBP dated 15/05/2023	
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.		

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22	Mineral(s) granted in lease and approved for Mining	Manganese Ore
23	Method of Mining (Opencast, Underground)	Opencast (for reporting year 2021-22), U/G mining is proposed from 22-23 onwards
24	Category (Fully Mechanized, Others or Manual)	Mechanised.
25	Captive/Non-Captive	Non Captive.

Details about Mining Plan/Review of Mining Plan etc

a) Letter No. and date of approval of mining plan	:	Modified Mining plan approved vide No. E 2246 MCDR-MPC0Mn/3/2022-JBP-IBM_RO_JBP dated 15/05/2023
b) Letter No. and date of approval of review of mining plan	:	-
c) Condition while approving the MP/ RMP/ modification	:	-
d) Period of mining plan/ mining scheme in force :	:	2023-24 to 2025-26 with validity up to 31/03/2026

## PART III-MCDR Report details.

1. <u>Scientific Mining:</u> Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

**Exploration** 

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (before 2021-22)	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2 (for 2021-22)	05 core boreholes were proposed	Nil exploration done	Violation pointed
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2021-22)	Yes	Nil	-
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2021-22)	NA	3.00 Ha	-
1e	Balance reserves as on 01.04.2022	-	111-19758 T 211- 3591 T 332- 24381T Total resources 47730T	
1f	General remarks of Inspecting officer on geology, exploration etc.	Proposed exploration not t	aken up so violation pointed.	

## **2. Development** (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	In pit 2 (N 2406040 to 2405945 and E 384310 to 384480	In pit 2 (N 2406040 to 2405945 and E 384310 to 384480	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:22	1:23	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden	15397	15397 cum of OB generated	

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	generation in m3	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Nil

## **3. Exploitation FY** 2021-22

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	During the RY production proposed from pit no. 2	
3b	Quantity of ROM mineral production proposed	3059 Tonnes	3050 Tonnes.	
3c	Recovery of Salable/usable minerals from ROM production	90%	100 % recovery	
3d	Quantity of mineral reject generation	5 % of Total ROM i.e 153 T	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
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	
3j	Provision of drilling & blasting in mineral benches	Yes	1.65m hole in ore with 32 mm dia spacing 1.5 m. slurry explosives used each cartridge weighs 125 gms.	
3k	Provision of mining machineries in mineral benches	Yes	Hydraulic excavators of 1.5 m3 capacity, drilling machine: jack hammer,	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation /pits (Ha.)	Yes	3.62 На	
3n	Ore to OB ratio for the pit/mine during the year	1.22	1:23	
30	Total area put in use under different heads at the end of year	-	Area under Mining: 3.642 Ha Under dumps : 3.1269 Ha Mineral storage : 0.1152 Ha Infrastructure : 0.0099 Ha Roads : 0.4367 Ha Plantation :0.1948 Ha Rejects stack : 0.0162 Ha Total 7.41 Ha	

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	Production of ROM	2017-18 5455T	2017-18 4800T	
	mineral during last five-	2018-19 5315 T	2018-19 4000 T	
	years period, as Applicable	2019-20 5315 T	2019-20 3800 T	
3p		2020-21 4980 T	2020-21 4800 T	
		2021-22 3059 T	2021-22 3050 T	
		2022-23 254 T	2022-23 Nil	
	General remarks of			
3q	inspecting officer on	Proposal furnished in Plan fo	r production achieved.	
	method of mining etc.	_	_	

4. Solid Waste Management-Dumping (2021-22)

	waste Management-Dun		A -41 XV1-	D
S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes for OB and MR	Done	
4b	Location of topsoil, OB & mineral reject dumps	OB: N 2405810 to 2405760, E 384675 to 384593	Done as per proposal.	
4c	Number of Dumps within lease area and outside lease area	01 within lease area.	At one place dumping is done in 7.5 m barrier and outside lease boundary.	Violation pointed.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL	
4e	Number of Active & Alive dumps	01	01 01	
4f	Number of dead dumps	02	02	
4g	Number of dumps established	-	During reporting year no new dump established.	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Yes garland drain is all along the dumps.	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NA	
4j	Number of settling ponds	Not Proposed	NA	
4k	Specific comments of inspecting officer on waste dump management	At one place dump was outs	ide the lease, so violation pointe	d.

5. Solid Waste Management-Backfilling (FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Yes	Yes mineral will be extracted	
5b	Area under backfilling of mined out area	Yes	Not done in reporting year.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NA	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No backfilling done during	the reporting year.	

6. Progressive Mine Closure Plan(FY 2021-22)

S.N.	Item	Proposals	Actual Work	Remarks
	Whether Annual report on PMCP			
6a	submitted on time and correctly-Rule	Yes	Submitted.	
0a	23E (2). Details should be given in the	1 68	Sublifficed.	
	format as given in Annexure-20			
6b	Area available for rehabilitation (Ha)	Nil	NA	
6c	Afforestation done (ha)	Yes	0.10 Ha	
6.1	No of continuous plants delivers of the second		200 saplings	
6d	No. of saplings planted during the year	-	planted	
6e	Cumulative no. of plants	-	1800 Nos	
6f	Any other specific method of rehabilitation	Nil	NA	
6g	Cost incurred on watch & care during the year	Yes	Rs 10000/- for saplings, plantation is within the lease so no watch and ward	
6h	Compliance on reclamation and rehabilitation by backfilling (i)Voids available for backfilling (L X B X D).	NA	Not proposed in reporting year.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	NA	Not proposed in reporting year.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	NA	Not proposed in reporting year. Plantation not done on backfilled area.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	NA	Nil	
61	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	NA	Nil	
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	Yes	200 saplings planted on old dumps.	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	NA	Plantation done on old waste dumps.	
60	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	By plantation.	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes done regularly and all parameters are within prescribed limit.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	200 sapling	gs planted during the year.	

## 7. Mineral Conservation(FY 2022-23)

	S.N.	Item	Proposals	Actual Work	Remarks
Ī	7a	ROM mineral dispatch or grade wise sorting	Yes	Grade wise sorting within	

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	within lease area		the lease.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual
7c	Different grade of mineral sort out at mine	Yes	Below 25% Mn 25% to below 35% Mn 35% to below 46% Mn 35% to below 46% Mn
7d	Any beneficiation process at mines	Yes	Manual jigging and screening.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is done in the lease by manual means.	

8. Environment(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	NA	Not proposed in reporting year	
8b	Concurrent use or storage of topsoil	NA	Not proposed in reporting year	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Done	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Not proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling of pit is proposed in coming year.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Yes	
8g	Survival rate	Yes	50%	
8h	Water sprinkling on roads to control airborne dust	Yes	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Regular sprinkling of planted.	water on haul road is done	200 saplings

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	Annual return of 2021-22 submitted on 30.06.2022		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer: Yogesh Thakre Geologist : Shivnarayan Banshkar		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining: 3.642 Ha Under dumps : 3.1269 Ha Mineral storage : 0.1152 Ha Infrastructure : 0.0099 Ha Roads : 0.4367 Ha Plantation :0.1948 Ha Rejects stack : 0.0162 Ha Total 7.41 Ha		
9d	Scrutiny of Annual return on afforestation	Yes, 200 saplings planted with 50% survival rate.		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes, Closing stock: 2924 T		
9g	Scrutiny of Annual return on sale	Grades	Ex Mine price	
U	value, Ex. Mine price & production	Below 25% Mn	3077.00 Per tonne	

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	costs	25% to below 35% Mn	8622.00 Per tonne	
		35% to below 46% Mn	14233.00 Per tonne	
		35% to below 46% Mn	16528.00 Per tonne	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets (in ₹) 18595000/-		
9k	Scrutiny of Annual return on mining Machineries	DUMPER 16.000 TONNE - 06 SHOVEL (HYDRAULIC) 0.950CUM- 02 FRONT END LOADER 0.500 Cum -01		