

S. N.	Particulars	Details
1	Name of the Mine	Katangihari Manganese Ore Mine
	Date of Inspection:	08-11-2022
	Name of Inspecting Officer	Robert Simon C, ACOM
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	6.229 Ha. Forest land- Nil Non-forest - 6.229 Ha.
3	Mine code	40MPR01052
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/4841/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s Vidhi Alloys Pvt.Ltd F2 Bhktiyog Appartment,Nargundkar Layout, Lic Colony , Khamla Road Nagpur Khamla Road Nagpur.
6	Village	Katangihari
7	Taluka/Mandal	Lalbarra
8	District	Balaghat
9	Pin code	481001
10	State	M.P.
11	Post Office	Lalbarra
12	Nearest Police Station	Lalbarra
13	Nearest Railway Station	Balaghat
14	Date of Grant of Mining Lease	29/01/2009
15	Date of Execution	29/01/2009
16	Date of opening of Mine	25-02-2009
17	Date of First Renewal, if applicable and its period & expiry	NA
18	Date of Second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Ravi Mittal F2 Bhktiyog Appartment,Nargundkar Layout, Lic Colony , Khamla Road Nagpur Khamla Road Nagpur.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	--
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	--
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	--
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	--
25	Date of Approval of Mine Plan/Modified Mine	MCDR-MPCOMn/6/2022-JBP-

	Plan with five- year period and specific condition in approval letter, if any.	IBM_RO_JBP Dated 19-05-2023 Plan Proposal Period 2023-24 to 2027-28.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and approved for Mining	Manganese
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Other than Fully Mechanized
30	Captive/Non-Captive	Non-Captive
31	Details of Previous Violation	Previous inspection was carried out on 11-02-19 for the Review of Mining Plan by Shri. R. R. DONGARE (DCOM) and no Violation were issued.

Exploration

S. N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	nil	nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	-	G-2 - 1.2575 HA Unexplored -4.97 HA	
1e	Balance reserves as on 01.04.2022		122- 15968 T	
1f	General remarks of Inspecting officer on geology, exploration etc.	The formation of the lease area belongs to Mansar formation of Sausar Group of Mesoproterozoic age. The lease area has been explored with three old core bore holes and one working pit, the logs of the pit and old bore holes are proving Mn Ore for average 3m thick ore body running in ENE-WSW direction which is strike of the area and dipping is 30 - 35 towards South having main litho unit as Mn Ore band along with host rock mica schist which belongs to Sausar Group.		

Development

S. N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	In northern part of the lease.	Pit was waterlogged	
2b	Separate benches in topsoil	Yes	Pit was waterlogged	

	overburden and mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.04	
2d	Quantity of topsoil generation in m ³	Nil	NA	
2e	Quantity of overburden generation in m ³	25756 m ³	1785 m ³	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Pits were not developed as per Mining Plan.		

Exploitation

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	5	
3b	Quantity of ROM mineral production proposed (2021-22)	2070 T	75 T	
3c	Recovery of Salable/usable mineral from ROM production	Not specified	NA	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
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	NA	nil	
3k	Provision of mining machineries in mineral benches	Yes	Pit was waterlogged	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Pit was waterlogged	
3m	Total area covered under excavation /pits	1.2575 ha	0.72 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.08	1:0.04	
3o	Total area put in use under different heads at the end of year	2.43	0.72 ha	

3p	Production of ROM mineral during last five-years period, as Applicable			
		2018-19	lapse	-
		2019-20	2977 T	-
		2020-21	2070 T	50 T
		2021-22	2070 T	75 T
		2022-23	2070 T	91 T
3q	General remarks of inspecting officer on method of mining etc	Violation pointed for less production and development.		

Solid Waste Management-Dumping

S. N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Separate dumping of OB done.	
4b	Location of topsoil, OB & mineral reject dumps	01 OB dump in Northern portion of the lease	01 OB dump in Northern portion of the lease	
4c	Number of Dumps within lease area and outside lease area	1	1	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPI	Within UPI	
4e	Number of Active & Alive dumps	1	1	
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	Nil	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific commends of inspecting officer on waste dump management			

Solid Waste Management-Backfilling

S. N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NA	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not mature enough to carryout backfilling & reclamation etc		

Progressive Mine Closer Plan

S. N.	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	submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Nil	
	ii) Afforestation done (ha)	Not proposed	0.06 Ha	
	iii) No.of saplings planted during the year	10	10	
	iv) Cumulative no. of plants	Not specified	100 approx.	
	v) Any other specific method of rehabilitation	Not proposed	nil	
	vi) Cost incurred on watch & care during the year	Not proposed	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Backfilling not proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	10 saplings over 90 m2 proposed	10 saplings over 90 m2 done	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	complied	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

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S. N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sort out at mine	Not specified	Below 25% Mn	
7d	Any beneficiation process at mines	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process at mines observed.		

Environment

S. N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	01 OB Dump proposed	01 OB Dump maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
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 & additional plantation done (Rule 41)		Baseline information available	
8g	Survival rate	Not specified	Nil	
8h	Water sprinkling on roads to control airborne dust		done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is moderate.		

Compliance of Rule 45

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S. N.	Item	Comments	Remarks					
9a	Status of submission of monthly and Annual returns	submitted						
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	scrutinised	Manager Md. Sarfaraj Sheikh					
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current (O/C) Workings 0.637ha Used for waste disposal 0.032 ha					
9d	Scrutiny of Annual return on afforestation		Nil					
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)		Nil					
9f	Scrutiny of Annual return on ROM stock and/or grade ore		Grades (% of Mn content)	Opening stock at mine head (in tonne)	Production (in tonne)	Dispatches from mine head (in tonne)	Closing stock at mine head (in tonne)	Ex-mine price (in ₹ Per Tonne)
9g	Scrutiny of Annual return on sale value, Ex.Mine price & productio							

		MCDR-MiFLOMn/6/2022-JBP-IBM_RO_JBP				
9i	Scrutiny of Annual return on Fixed assets	Nil				
9k	Scrutiny of Annual return on mining Machinerie s	Type of machinery	Capacity of each unit	No. of units	Electrical/ Non-Electrical (specify)	Used in opencast/ underground (specify)
		DUMPER	24.000 TONNE	2	Non Electrical	Opencast
		BACK HOE	1.000 CUM	1	Non Electrical	Opencast
		PUMPS (NON-ELEC.)	14.000 L/ MN	1	Non Electrical	Opencast

(Robert Simon C)
Asst. Controller of Mines
IBM, Jabalpur Region.