

INSPECTION DATASHEET For The Year 2023-24**General**

S.N.	Particulars	Details
1	Name of the Mine	Selwa Manganese Mine
	Date of Inspection:	15.07.2024
	Name of Inspecting Officer	Shri Abhishek Ranjan Gautam, AME
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.906 Hect.
3	Mine code	40MPRO1065
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/9828/2012
5	Last Inspection Details	Date 14/09/2023 by Shri R S Garg, Violation status complied.
6	Mine official present during the inspection	Sanket Kumar Patil Mine Manager
7	Name of the Lease, Address, Phone, email and fax number	Metal & Minerals, Village. Selwa, Th. Katangi, Dist. Balaghat M.P.- 481445 Mob.No.9893102223, 7999035156 Email Id. mmkatni@gmail.com
8	Village	Selwa
9	Taluka/Mandal	Katangi
10	District	Balaghat
11	Pin code	481445
12	State	Madhya Pradesh
13	Post Office	Katangi
14	Nearest Police Station	Katangi
15	Nearest Railway Station	Katangi
16	Date of Grant of Mining Lease	02/03/2009
17	Date of Execution	23-03-2009
18	Date of opening of Mine	20.04.2011
19	Date of First Renewal, if applicable and its period & expiry	NA
20	Date of Second Renewal, if applicable and its period & expiry	NA
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sandesh Jain, MIG II/12 Housing Board Colony, Katni-483501 Mob. No. 983102223,7999035156 Email Id. mmkatni@gmail.com
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Sandesh Jain, MIG II/12 Housing Board Colony, Katni-483501 Mob. No. 983102223,7999035156 Email Id. mmkatni@gmail.com
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Sanket Kumar Patil, Mine Manager
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Sanket Kumar Patil

26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Approval of Mining Plan 05/02/2009 Modified Mine Plan 30/08/2013, 23/12/2019 24/09/2020
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	28/02/24 for 5 year from 01.04.24 to 31.03.2029 vide letter . E 8584 MCDR-MPCOMn/13/2023-J
29	Mineral(s) granted in lease and approved for Mining	Manganese Ore
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	others
32	Captive/Non-Captive	Non captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	03 no's Boreholes proposed	03 no's of Core boreholes has been done	
1b	Exploration over lease area for Geological axis 1 or 2.	Boreholes were proposed to convert the reserves of entire lease area now falls under G2 level into G1 level of UNFC .	Proposed boreholes has been done ,therefore reserves of entire lease area still falls under G2 level of UNFC due to not proper grid plan as Per UNFC.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Exploration under G-1 axis – Nil Exploration under G-2 axis - 1.50 Hect. Unexplored area – 3.4060 Hect.	
1e	Balance reserves as on 01.04.2024	122- 23740.50 t		
1f	General remarks of Inspecting officer on geology, exploration etc.	The formation of the area belongs to Mansar formation of Sausar Group of Mesoproterozoic in age		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Proposal development laterally and depth wise on exiting pit & excavation.	During the period the working will be Depth wise on exiting pit /excavation	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in overburden with 2.0m height and mineral	Separate benches in overburden i.e. Lateritic soil and in	

		bench with 6.0m height proposed	mineral i.e. Iron ore zone were noticed depth wise.	
2c	Stripping ratio or ore to OB ratio	-	-	
2d	Quantity of topsoil generation in m ³	NP	NA	
2e	Quantity of overburden generation in m ³	330197 m3	165400 m3	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	only 164797 m3 of waste generation for the deviation in OB is due to changes offered in geological occurrence and it offered changes in structural behaviour for the already worked out area hence OB generation is relatively on lower side.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed (2023-24)	8267 t.	6748t	
3c	Recovery of Salable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	Not specified	As per AR	
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	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Proposed	As per proposal	
3k	Provision of mining machineries in mineral benches	Proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Existing bench height in overburden and in Iron ore zone are not suitable for the proposed mining machineries.	Violation pointed out
3m	Total area covered under excavation /pits	1.32 ha	2.06 ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0:85	1:1.45	
3o	Total area put in use under different heads at the end of year	2.06 ha	1.32 ha.	
3p	Production of ROM mineral during last	Year	Proposal	Achievement

	five-years period, as Applicable	2019-20	NA	NA	
		2020-21	4956 t	2460t	
		2021-22	6720 t	6600t	
		2022-23	7392 t	5495t	
		2023-24	8267 t	6748t	
3q	General remarks of inspecting officer on method of mining etc	Opencast Method of Mining being carried out.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB proposed	OB dump observed during inspection.	
4b	Location of topsoil, OB & mineral reject dumps	Old dump in the eastern part	Old dump in the eastern part of the ml	
4c	Number of Dumps within lease area and outside lease area	One dump with in lease area	One dump with in lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Outside the UPL	
4e	Number of Active & Alive dumps	One	One	
4f	Number of deed dumps	NA	NA	
4g	Number of dumps established	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed	Not construction	
4i	Length of Retaining wall or garland drain all along dump	Proposed	Not construction	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	Dump in the eastern part been kept as it and generated OB has been used for dumping over the dump and partly used for road maintenance as per records.		

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	Full extraction of mineral proposed	Full extraction of mineral adopted	
5b	Area under backfilling of mined out area	0.9446	0.3367 Due to less development less OB was generated, therefore	

			proposed backfilling could not be done.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not mature enough to stated backfilling process.		

Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E(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)	NA	NA	
	ii) Afforestation done (ha)	NA	NA	
	iii) No.of saplings planted during the year	NA	NA	
	iv) Cumulative no. of plants	NA	350 no's	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	NA	NA	
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	Proposal	As per proposal	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	No comments		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	grade wise sorting within lease area proposed	Being carried out as per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NA	
7c	Different grade of mineral sort out at mine	Not proposed	NA	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no need of any beneficiation as entire mineral produced is supplied to plant.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	NA	Not applicable as there is no top soil.
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Dumping of only overburden proposed	Observed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	NA	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable as the mined out area / area under working is matured for restoration.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	proposed	125 nos	
8g	Survival rate	Proposed 70% - 80%	very poor	
8h	Water sprinkling on roads to control airborne dust	proposed	Evidences of water sprinkling were observed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mines is moderate		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	AR & MR to be submitted online	
		submitted online regular	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	
		Name of the Mining Engineer: Sanket Kumar Patil Geologist: Amit Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.260 0.260 (ii) Covered under current (O-C) Workings 0.000 1.860 1.860 (iii) Reclaimed-rehabilitated 0.000 0.440 0.440 (iv) Used for waste disposal 0.000 0.520 0.520 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.000 0.000 (vi) Used for any other purpose (specify) 0.000 0.000 0.000 (vii) Work done under progressive mine closure plan during the year 0.000 0.440 0.440	
9d	Scrutiny of Annual return on Afforestation	125 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	3(ii) Grade-wise Production, Dispatches, Stocks and Ex-mine prices:	

		Grades** Opening stock at mine-head Production Despatches from minehead Closing stock at mine-head Ex-mine price (₹-Tonne) (i) Ore (a) Below 25% Mn 1345.870 2068.110 1921.270 1492.710 5296.91 (b) 25% to below 35% Mn 602.620 3060.005 2275.645 1386.980 9900.43 (c) 35% to below 46% Mn 321.290 1620.350 1066.450 875.190 12939.03 (d) 46% and above Mn 0.000 0.000 0.000 0.000 0.00 (e) Dioxide ore 0.000 0.000 0.000 0.000 0.00 (a) CONCENTRATES 0.000 0.000 0.000 0.000 0.00	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Below 25% Mn - 5296.91/- 25% to below 35% Mn - 9900.43 35% to below 46% Mn - 12939.03	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* (₹ 3333303)	
9k	Scrutiny of Annual return on mining Machineries	PUMPS (ELEC.) 10.000 L/MN 2 Electrical Opencast OTHERS (NON-ELEC.) 0.000 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.000 CUM 1 Non Electrical Opencast DUMPER 15.000 TONNE 2 Non Electrical Opencast	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:- Details is given below:

1. Rule 11(1) of MCDR 2017 – Complied
2. Rule 45(7) of MCDR 2017 – Complied
- 3.

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer