

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

S.N.	Particulars	Details
1	Name of the Mine	Arjuni Manganese Mine
	Date of Inspection:	06-01-2025
	Name of Inspecting Officer	Abhishek Ranjan Gautam, Assistant mining engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	3.238 Ha ( Revenue Land)
3	Mine code	40MPRO1023
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5495/2011
5	Last Inspection Details	31/05/2022, Shri Naresh Katariya, DCOM
6	Mine official present during the inspection	Shri Vinay Surana Mine Agent, Shri Neeraj Shrivastav, Engineer, Geologist
7	Name of the Lease, Address, Phone, email and fax number	Sunil Kumar Kalwani, Arjuni Manganese Mine, Village- Arjuni, Tehsil- Katangi, Dist- Balaghat (M.P.), 9425138741, suranavinay3@gmail.com
8	Village	Arjuni
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	Lakhanwada
16	Date of Grant of Mining Lease	27-11-1983
17	Date of Execution	27-11-1983
18	Date of opening of Mine	27-11-1983
19	Date of First Renewal, if applicable and its period & expiry	27-11-1993 to 26-11-2003
20	Date of Second Renewal, if applicable and its period & expiry	27-11-2003 to 26-11-2023 27-11-2023 to 26-11-2033
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	29-06-2020
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sunil Kumar Kalwani Ward no. 5, Near Narmada Mandir Banapura, Seoni Malwa, Dist- Narmadapuram, (M.P.) 8770736288 <a href="mailto:suranavinay3@gmail.com">suranavinay3@gmail.com</a>
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Vinay Surana Ward No. 12, Main Road Waraseoni, Dist- Balaghat (M.P.) 9425138741 <a href="mailto:suranavinay3@gmail.com">suranavinay3@gmail.com</a>
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Niraj Shrivastava Purv Samarth Nagar, Murmadi, tehsil-

		Lakhani, Dist- Bhandara, Maharashtra 8718893034, nilphpg21@gmail.com
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Niraj Shrivastava Diploma in Mining & Mine Surveying with Second Class Manager Certificate 15 Years Experience Purv Samarth Nagar, Murmadi, tehsil- Lakhani, Dist- Bhandara, Maharashtra 8718893034 nilphpg21@gmail.com
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Rajeev Goel, Geologist
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	08-07-2022
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	08-07-2022
29	Mineral(s) granted in lease and approved for Mining	Manganese
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	A
32	Captive/Non-Captive	Non-Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	8 Core Bore Holes	5 Core Bore Holes	Violation pointed out for remaining Bore hole under rule 11(1)
1b	Exploration over lease area for Geological axis 1 or 2.	1.238 Ha	1.238 Ha	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year		Engeomin Consultant, Jabalpur Expenditure- Rs 297360.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not Proposed	NA	
1e	Balance reserves as on 01.04.2024	11515 Ton		
1f	General remarks of Inspecting officer on geology, exploration etc.	Violation pointed out for remaining Bore hole under rule 11(1).		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit 1- 21°45'04.32" To 21 °45'06.86" 79 °53'12.92" To 79 °53'14.29" Pit 3- 21°45'08.41" To 21 °45'07.90" 79 °53'07.92" To 79 °53'08.22"	Pit 1- 21°45'04.32" To 21 °45'06.86" 79 °53'12.92" To 79 °53'14.29"	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	OB- 2 Benches Mineral- 1 Bench	OB- 2 Benches Mineral- 1 Bench	
2c	Stripping ratio or ore to OB ratio	1: 3.15		
2d	Quantity of topsoil generation in m <sup>3</sup>	No Topsoil Exists	No Topsoil Exists	
2e	Quantity of overburden generation in m <sup>3</sup>	12748 M3	Not achieved	Violation pointed out for less development under rule 11(1)
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Violation pointed out for less development under rule 11(1)		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	2	1	
3b	Quantity of ROM mineral production proposed (2023-24)	1694 ton	595	
3c	Recovery of Salable/usable mineral from ROM production	90 %		
3d	Quantity of mineral reject generation	Not Proposed	NA	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NA	
3f	Quantity of sub-grade mineral generation	Not Proposed	NA	
3g	Grade of sub-grade mineral generation	Not Proposed	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	Not Proposed	NA	
3j	Provision of drilling & blasting in	Yes	Breaker is used	

	mineral benches		instead of blasting	
3k	Provision of mining machineries in mineral benches	Yes	Excavator- 1 No Dumper- 2 No.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Bench Height- 6 mtr	
3m	Total area covered under excavation /pits	0.760 Ha	0.760 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 3.15	1: 3.15	
3o	Total area put in use under different heads at the end of year	2.0989 Ha	2.0989 Ha	
3p	Production of ROM mineral during last five-years period, as Applicable	Year	Proposal	Achievement
		2019-20		2000
		2020-21		1890
		2021-22		00
		2022-23		00
		2023-24		595 tones
3q	General remarks of inspecting officer on method of mining etc	Mining operation carried out as per proposal.		

**Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No topsoil Exists 3 OB Dumps No mineral reject dump	No topsoil Exists 3 OB Dumps No mineral reject dump	
4b	Location of topsoil, OB & mineral reject dumps	No topsoil Exists Dump 1- 21°45'05.31" To 21 °45'07.11" 79 °53'06.71" To 79 °53'08.81"  Dump 2- 21°45'07.66" To 21 °45'09.59" 79 °53'07.60" To 79 °53'10.07"  Dump 3- 21°45'06.13" To 21 °45'09.21" 79 °53'10.30" To 79 °53'16.18"  No mineral reject	No topsoil Exists Dump 1- 21°45'05.31" To 21 °45'07.11" 79 °53'06.71" To 79 °53'08.81"  Dump 2- 21°45'07.66" To 21 °45'09.59" 79 °53'07.60" To 79 °53'10.07"  Dump 3- 21°45'06.13" To 21 °45'09.21" 79 °53'10.30" To 79 °53'16.18"  No mineral reject	

		dump	dump	
4c	Number of Dumps within lease area and outside lease area	3 OB dumps within lease area	3 OB dumps within lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Partly within ultimate pit limit and Partly on 7.5 mtr wide statutory barrier zone	Partly within ultimate pit limit and Partly on 7.5 mtr wide statutory barrier zone	
4e	Number of Active & Alive dumps	00	00	
4f	Number of deed dumps	03	03	
4g	Number of dumps established	00	00	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yse	
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall- 300 mtr Garland Drain- 300 mtr	Retaining Wall- 300 mtr Garland Drain- 300 mtr	
4j	Number of settling ponds	00	1 settling tank	
4k	Specific commends of inspecting officer on waste dump management	No comments		

#### **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	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No topsoil exists	No topsoil exists	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

#### **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	As per rule 26(2) of MCDR 2017, the holder of mining lease shall submit to the competent authority a yearly report as per the format	Annual return on PMCP for 2023-24 has been submitted along with annual return	

		specified by the Indian Bureau of Mines, before 1st day of July report every year		
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not Proposed	NA	
	ii) Afforestation done (ha)	0.56 Ha	0.56 Ha	
	iii) No.of saplings planted during the year	200	200	
	iv) Cumulative no. of plants	600	600	
	v) Any other specific method of rehabilitation	Not Proposed	NA	
	vi) Cost incurred on watch & care during the year	Rs 20,000.00	Rs 20000.00	
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	Not Proposed	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	i) Afforestation around 7.5 mtr barrier zone and at Arjuni village ii) Not Proposed iii) Not Proposed	i) Afforestation around 7.5 mtr barrier zone and at Arjuni village ii) NA iii) NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual return on PMCP for 2023-24 has been submitted along with annual return.		

**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	Grade wise sorting within lease area	
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 % 25 to 35 % 35 to 46 % Above 46 %	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is being carried out.		

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil exists	No topsoil exists	
8b	Concurrent use or storage of topsoil	No topsoil exists	No topsoil exists	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumps for overburden	Separate dumps for overburden	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Afforestation around 7.5 mtr barrier zone and at Arjuni village	Afforestation around 7.5 mtr barrier zone and at Arjuni village	
8g	Survival rate	80 %	60 %	
8h	Water sprinkling on roads to control airborne dust	Proposed	Tanker is used for Water sprinkling on roads to control airborne dust	

8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is not satisfactory.
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**Compliance of Rule 45**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR upto Nov 24 and AR of 2023-24 had Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Name of the Mining Engineer: Niraj Shrivastava</b> <b>Geologist: Rajeev Goyal</b>	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern as per Annual Return Already exploited by Mining: 0.897 Ha Covered under current Mining: 0.076 Ha Used for waste disposal: 1.115 Ha Infrastructure & Roads: 0.050 Ha Others, Green Belt: 0.008 Ha	
9d	Scrutiny of Annual return on Afforestation	Afforestation as per Annual Return	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No mineral reject generated	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Rom stock & gradewise stock as per Annual Return	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale Value Below 25% - Rs 2500 per ton 25 to 35% - Rs 4603.14 per ton Ex-mine Price Below 25% - Rs 3267.42 per ton 25 to 35% - Rs 4540.88 per ton 35 to 46% - Rs 7019.58 per ton Production cost Rs 1575.92	

9i	Scrutiny of Annual return on Fixed assets	Fixed assets – Rs 00.00	
9k	Scrutiny of Annual return on mining Machineries	No machineries at mines. It will be brought on rent for Mining operations	

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

Rule 11(1) of MCDR 2017 dated 04/02/2025

Rule 45(7) of MCDR 2017 dated 04/02/2025

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer