

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**MCDR Inspection REPORT**  
**Jabalpur Regional office**

**Mine code: 40MPR01078**

(i)	Name of Inspecting officer	:	Shri Sudip Ranjan Mazumdar
(ii)	Designation	:	Regional Mining Geologist
(iii)	Accompanying mine official with Designation	:	Shri Bhuneswar Singh Karpe, Mine Manager Shri Bhuneswar Singh Karpe, Mining Engineer Shri Subhransu Pani, Geologist Shri Rajesh Manke, Surveyor
(iv)	Date of Inspection	:	01.10.2024

**PART-I: GENERAL INFORMATION**

1	(a)	Mine Name	:	SITAPATORE MANGANESE MINE
	(b)	Registration Number	:	IBM/5711/40MPR01078
	(c)	Category	:	Category A
	(d)	Type of Working	:	Opencast
	(e)	Postal address	:	
		State	:	Madhya Pradesh
		District	:	Balaghat
		Village	:	Sitapathar
		Taluka	:	Tirodi
		Post Office	:	Tirodi
		Pin code	:	481449
		Fax	:	NA
		email	:	moilindia_ngp@sancharnet.in
		Phone No	:	7410084445
	(f)	Police Station	:	Tirodi
	(g)	First Opening date	:	NA
	(h)	Weekly day of rest	:	Sunday
2	Address for Correspondence		:	
3	(a)	Lease Area	:	4.734 Ha
	(b)	Period of lease	:	70 Years
	(c)	Date of Expiry	:	30.06.2032
4	Mineral Worked (Main)		:	Manganese
5	Name of address of the Lessee with Phone, email and fax number		:	M/s MOIL LIMITED, (A Government of India Enterprise) MOIL Bhawan, 1A, Katol Road, Nagpur-440013 Email: <a href="mailto:moilindia_ngp@sancharnet.in">moilindia_ngp@sancharnet.in</a> Telephone: 0712-2590775, Fax: 0712-2592073
	Name and address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment		:	Shri M.M. Abdulla Director (Prod. & Planning), MOIL LIMITED, MOIL Bhawan, 1A, Katol Road, Nagpur-440013 Phone: 0712-2590775 Fax: NA; Email: <a href="mailto:mma@moil.nic.in">mma@moil.nic.in</a> Date of Appointment: 10/01/2022

	Name and address of the Agent with Phone, email, fax number and Date of appointment	:	Shri Rajesh Kumar Singh, Agent & Joint General Manager (Mines) Gr.-I, MOIL LIMITED, Balaghat Mine (M.P.) 481002 Phone: 7410084445 Fax: NA Email: rajesh_rajikhushi@rediffmail.com Date of Appointment: 26/10/2021
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Shri Bhuneswar Singh Karpe, MOIL LIMITED, Sitapatore Mine, District – Balaghat (M.P.) 481449 Phone: 9685529162 Fax: NA Email: <a href="mailto:mm.sp@moil.nic.in">mm.sp@moil.nic.in</a> Date of Appointment: 29/01/2022
	Mining Engineer Name Qualification Date of Appointment	:	Shri Bhuneswar Singh Karpe, , B.E. (Mining) Date of Appointment – 13/09/2023
	Geologist Name Qualification, Date of Appointment	:	Shri Subhransu Pani Qualification: M.Tech. (Applied Geology) Date of Appointment – 18.11.2019
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	Review of Mining Plan approved vide letter no MP/Balaghat/Manganese/RMP-46/2019-20 Jabalpur dated 29.06.2020 for the proposal period 2020-21 to 2024-25

**PART III-MCDR Report details.**

1. **Scientific Mining:** 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	2022-23: Not proposed	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	2023-24: Not proposed	Nil	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	4.734 Ha	4.734 Ha	Nil
1e	Balance reserves as on 01.04.2024	Insitu Reserves: Nil Dump Reserves:3000 tonne	Insitu Reserves: Nil Dump Reserves:3000 tonne	Nil
1f	General remarks of Inspecting officer on geology, exploration etc.	In early past prior to 1980, this was worked for low grade ore since the entire falls under the category of protected forest that has attracted the provisions of Forest Conservation Act, therefore at present mining operations are suspended.		

**Development**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	600 M <sup>3</sup> of dump development in location 21°40'32.24"N and 79°40'12.54"E and 29200 M <sup>3</sup> has been proposed. From open cast mining, i.e. from 21°40'20.58"N to 21°40'25.40"N and 79°40'9.46"E to 79°40'11.16"E.	Nil	At present mining operations are suspended due to want of forest clearance.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	4 benches (extension of development of Pit No.6 of lease I)	Nil	-do-

2c	Stripping ratio or ore to OB ratio	Nil	Nil	-do-
2d	Quantity of topsoil generation in m <sup>3</sup>	Not proposed	Nil	-do-
2e	Quantity of overburden generation in m <sup>3</sup>	600 M <sup>3</sup> of dump development and 29200 M <sup>3</sup> has been proposed form open cast mining.	Nil	-do-
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	At Sitapathore Mine, except extension of development of Pit No.6 of lease I, no insitu mining has been proposed. However, till date mining operations are suspended due to want of forest clearance.		

**Exploitation FY 2023-24**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Only one, i.e. extension of development of Pit No.6 of lease I	Nil	At present mining operations are suspended due to want of forest clearance.
3b	Quantity of ROM mineral production proposed	100 tones	Nil	-do-
3c	Recovery of Salable/usable minerals from ROM production	100 tones	Nil	-do-
3d	Quantity of mineral reject generation	500 tones	Nil	-do-
3e	Grade of mineral reject generation and threshold value declared	17-18% Mn	Nil	-do-
3f	Quantity of sub-grade mineral generation	500 tones	Nil	-do-
3g	Grade of sub-grade mineral generation	17-18% Mn	Nil	-do-
3h	Manual/Mechanized method adopted for segregation from ROM	Semi-Mechanized open cast mining with manual sorting	Semi-Mechanized open cast mining with manual sorting	-do-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	-do-
3j	Provision of drilling & blasting in mineral benches	Not proposed	Nil	-do-
3k	Provision of mining machineries in mineral benches	Yes	Nil	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Nil	-do-
3m	Total area covered under excavation /pits (Ha.)	0.22 Ha	Nil	-do-
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	-do-
3o	Total area put in use under different heads at the end of year	1.98 Ha	2.67 Ha	FA has been submitted for 2.96 Ha in the RMP approved dated 23/01/2025

3p	Production of ROM mineral during last five-years period, as Applicable	2019-20 - 100 tones 2020-21 - 100 tones 2021-22 - 100 tones 2022-23 – 100 tones 2023-24 – 100 tones	2019-20 - Nil 2020-21 - Nil 2021-22 - Nil 2022-23 - Nil 2023-24 - Nil	Nil
3q	General remarks of inspecting officer on method of mining etc.	At present mining operations are suspended due to want of forest clearance.		

### 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 & mineral reject	Nil	At present mining operations are suspended due to want of forest clearance.
4b	Location of topsoil, OB & mineral reject dumps	Location of Waste dump and mineralized dump has been proposed	At present mining operations are suspended due to want of forest clearance.	Nil
4c	Number of Dumps within lease area and outside lease area	1 Nos. with in lease area.	1 Nos. within lease area.	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of Active & Alive dumps	1	1	Nil
4f	Number of dead dumps	Not Proposed	Nil	Nil
4g	Number of dumps established	Not Proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	At present mining operations are suspended due to want of forest clearance.		

### 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	Nil	Nil
5b	Area under backfilling of mined out area	Not Proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no proposal for backfilling.		

**Progressive Mine Closure 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	The holder of a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1 <sup>st</sup> day of July report every year	Not Submitted	Mining operations are suspended due to want of forest clearance.
6b	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
6c	Afforestation done (ha)	Not Proposed	Nil	Nil
6d	No. of saplings planted during the year	Not Proposed	Nil	Nil
6e	Cumulative no. of plants	Not Proposed	Nil	Nil
6f	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Not Proposed	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not Proposed	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not Proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Proposed	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Not Proposed	Nil	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not Proposed	Nil	Nil
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of Environment monitoring (core zone & buffer zone)	Not Proposed	Nil	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	At present mining operations are suspended due to want of forest clearance.		

**Mineral Conservation**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade-wise sorting	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Semi-mechanized	Nil	Nil
7c	Different grade of mineral sort out at mine	Not Specified	Nil	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	At present mining operations are suspended due to want of forest clearance.		

**Environment**

S.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	Nil
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	Nil
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Not Proposed	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Not Proposed	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Specified	Nil	Nil
8g	Survival rate	Not Proposed	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	At present mining operations are suspended due to want of forest clearance.		

**Compliance of Rule 45 (2023-24)**

S.No	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual Return for 2023-24 have not been submitted	At present mining operations are suspended due to want of forest clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been employed in the mines.	-do-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	-do-
9d	Scrutiny of Annual return on afforestation	Nil	-do-
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	-do-
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Nil	-do-
9i	Scrutiny of Annual return on Fixed assets	Nil	-do-
9k	Scrutiny of Annual return on mining Machineries	Nil	-do-

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on
Nil			

**Date:**

**(SUDIP RANJAN MAZUMDAR)**  
Indian Bureau of Mines