

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

**Mine code: 40MPR01002**

(i)	Name of Inspecting officer	:	Madahavrao Sabre
(ii)	Designation	:	Senior Mining Geologist
(iii)	Accompanying mine official with Designation	:	Hemant Bawankar (UG Manager), P. Venkatesh (Level In-charge), Vinay Kumar Rahangdale (AG Manager Geology),
(iv)	Date of Inspection	:	28/11/2024
(v)	Previous Inspection date	:	08/08/2023

**PART-I: GENERAL INFORMATION**

1	(a)	Mine Name	:	<b>Balaghat Manganese Mine</b>
	(b)	Registration Number	:	IBM/5711/2011
	(c)	Category	:	40MPR01002
	(d)	Type of Working	:	Underground working
	(e)	Postal address	:	MOIL LTD. 1 A KATOL ROAD NAGPUR 440013 0712-2590050 <a href="http://WWW.moil.nic.in">WWW.moil.nic.in</a> 0712-2592073
		State	:	Madhya Pradesh
		District	:	Balaghat
		Village	:	Bharweli Awlajhari, Tawejhari, Manjhara, Manegaon, Hirapur.
		Taluka	:	Balaghat
		Post Office	:	Bharweli
		Pin code	:	481102
		Fax	:	07632245185
		email	:	mm.bg@moil.nic.in
		Phone No	:	07632245185
	(f)	Police Station	:	Bharweli
	(g)	First Opening date	:	1901
	(h)	Weekly day of rest	:	Saturday
2		Address for Correspondence	:	
3	(a)	Lease Area	:	182.3004 Ha
	(b)	Period of lease	:	10 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	:	MOIL LTD. 1 A KATOL ROAD NAGPUR 440013 0712-2590050 <a href="http://WWW.moil.nic.in">WWW.moil.nic.in</a> 0712-2592073

	Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment	:	MIRZA MOHAMMAD ABDULLA MOIL Limited, MOIL Bhawan, 1 A KATOL ROAD, Nagpur- 440013, <a href="mailto:mma@moil.nic.in">mma@moil.nic.in</a> , Fax No. 0712-2592073 Date of appointment: 10.01.2022
	Name of address of the Agent with Phone, email, fax number and Date of appointment	:	Mr. Rajesh U Singh MOIL Limited, Balaghat Mine, Post Bharweli 481102 Mob-9404365875, <a href="mailto:agent1@moil.nic.in">agent1@moil.nic.in</a> , Appointment-26.10.2021
	Name of address of the Manager with Phone, email, fax number and Date of appointment	:	Mr. Mayank S. Jain MOIL Limited, Balaghat Mine, Post Bharweli 481102 Mob-9755718912 <a href="mailto:mm.bg@moil.nic.in">mm.bg@moil.nic.in</a> , Appointment-14.06.2023
	Mining Engineer Name Qualification Date of Appointment	:	Mr. Hemant R. Bawankar, UG Manager B. E. Mining, Appointment-12.06.2023
	Geologist Name Qualification, Date of Appointment	:	Mr. Vinay Kumar Rahangdale, AG Manager Geology M. Sc. Geology Date of Appointment-26.07.2023
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	Mining Plan under Rule 17(3) of MCR,2016 & Rule 23 MCDR, 2017 approved vide letter No MP/Balaghat/Manganese/MPLN/G-06/2021-22, Dated: 29/04/2022

**PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS**

**Exploration: (2023-24)**

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (For year 2023-24)	05 Nos. BH	26 Nos. BH	Proposed 3270 Mtrs. & Actual Done 11140.00 Mtrs.
1b	Exploration over lease area for Geological axis 1 or 2	G2 to G-1	G-1 Axis	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	130.80 Lakh	334.20 Lakh	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	Nil	Nil	Nil
1e	Balance reserves as on 01.04.2024	At the beginning of the year 1.4.2023, reserves was 13959581 tones and resources under 211 & 332 category of UNFC was 10520861 tones.	Depletion during the year 2023-24 was 382383 tones. Balance reserves as on 01.04.2024 is 13577198 and resources is 11285361 tones.	Reserves / Resources figures as submitted in the annual return for 2023-24.
1f	General remarks of Inspecting officer on geology, exploration etc.	Only 6.261 Ha. Area under G-2 Axis and G-2 area will be explored for G-1 up to year 2024-25.		

**Development (2023-24)**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Mine is worked by Underground Cut and fill method. Proposed & actual development is enclosed as Ann II, Multilevel development was proposed.	Mine is worked by Underground Cut and fill method. Proposed & actual development is enclosed as Ann II. Development was lagging as per proposal.	Violation issued.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Under ground Mine (No top soil removal)	Under ground Mine (No top soil removal)	
2c	Stripping ratio or ore to OB ratio	----	-----	
2d	Quantity of topsoil generation in m <sup>3</sup>	Under ground Mine (No top soil removal)	Under ground Mine (No top soil removal)	
2e	Quantity of overburden generation in m <sup>3</sup>	28908 m <sup>3</sup>	24245 m <sup>3</sup>	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mine is worked by Underground Cut and fill method, with hydraulic sand stowing.		

**3. Exploitation FY (2023-24)**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	UG Mining	UG Mining	Nil
3b	Quantity of ROM mineral production proposed	In 2023-24, ROM production proposed was 382383 tones	In 2023-24, actual ROM production was 382383 tones	Nil
3c	Recovery of Saleable/usable minerals from ROM production	In 2023-24, saleable ore production proposed was 344145 tones	In 2023-24, saleable ore production was 377640.476 tones	Nil
3d	Quantity of mineral reject generation	38238.00 tones	4743.00 tones	Nil
3e	Grade of mineral reject generation and threshold value declared	Grade of mineral reject less then 10%Mn	10%Mn	Nil
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not proposed	Nil	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Not proposed	Nil	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Proposed	Carried out	Nil

3k	Provision of mining machineries in mineral benches	Yes	Yes	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Underground Mine	Underground Mine	Nil
3m	Total area covered under excavation /pits (Ha.)	Underground Mine	Underground Mine	Nil
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	Nil
3o	Total area put in use under different heads at the end of year	Total area proposed to be put in use under different heads at the end of plan period 2023-24 is 59.604 Ha	Lease area (surface area) utilization as at the end of year (hectares) as reported in annual return for 2023-24 58.928 Ha.	Nil
3p	Production of ROM mineral during last five-years period, as Applicable	2023-24: 382383 tones 2022-23: 349755 tones 2021-22: 668566 tones 2020-21: 643983 tones 2019-20: 594813 tones 2018-19: 455897 tones	2023-24: 382383 tones 2022-23: 328975 tones 2021-22: 330440 tones 2020-21: 345072 tones 2019-20: 374374 tones 2018-19: 328731 tones	Nil
3q	General remarks of inspecting officer on method of mining etc.	ROM production quantity during the year 2023-24 was within the proposed limit.		

#### 4. Solid Waste Management-Dumping (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Under ground Mine No Top Soil Generate, OB shall be utilized for backfilling, mineral reject will be stacked separately	Total 24245m <sup>3</sup> Waste generated form UG used in Backfilling in UG and Mineral reject 4743 tones stacked at Mineral Reject Dump BD	Nil
4b	Location of topsoil, OB & mineral reject dumps	OB shall be utilized for backfilling in UG stops and mineral reject stacking	Total 24245m <sup>3</sup> Waste generated form UG used in Backfilling in UG and Mineral reject 4743 tones stacked at Mineral Reject Dump BD	Nil
4c	Number of Dumps within lease area and outside lease area	Mineral Reject-Within lease area location 2416733N & 420299 Waste Dump (OLD PIT is Reclaimed by back filled by waste generated during U/G development) Location: 2417184N & 421017E	Mineral Reject-Within lease area location 2416733N & 420299 Waste Dump (OLD PIT is Reclaimed by back filled by waste generated during U/G development) Location: 2417184N & 421017E	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	Nil
4e	Number of Active & Alive dumps	Yes Mineral Reject-Within lease area location 2416733N & 420299	Yes Mineral Reject-Within lease area location 2416733N & 420299	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	Yes proposed	Not constructed	Violation issued.
4i	Length of Retaining wall or garland drain all along dump	140 m	Not constructed	Violation issued.
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	<b>Filling</b> of the stops after extraction of the manganese ore will be done in dip rise direction. At a time 2 m height and area of 20 m x 20 m will be filled by sand hydraulically. Side will be covered by thick cloth or jute cloth. This will allow the water to come out and the water will be collected in the sump through the drainage system. From the sump it will be again re-circulated to surface. Around 10% of the area will be packed by the waste material generated during driverage of gallery, x-cut and haulage road. Around 80% of excavated area will be filled by sand.		

### 5. Solid Waste Management-Backfilling (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed 5782 m <sup>3</sup> in UG and 0.150 Ha area of OLD PIT will be Reclaimed by back Filled by waste generated during U/G development western part of the pit.	Backfilling done in UG stopes and 0.15 Ha area of OLD PIT is Reclaimed by back Filled by waste generated during U/G development.	Nil
5b	Area under backfilling of mined out area	0.150 Ha. OLD PIT	0.15 Ha. OLD PIT	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	NIL	Nil
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling done in UG stopes by the waste material generated during driverage of gallery, x-cut and haulage road and River Sand (Hydraulic Sand stowing)		

### 6. Progressive Mine Closure Plan (2023-24)

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 1st day of July report every year	The annual return on PMCP has been submitted timely.	
6b	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
6c	Afforestation done (ha)	2.5	0.1	
6d	No. of saplings planted during the year	3000	100	Violation issued.
6e	Cumulative no. of plants	490330 Nos.	490430 Nos	
6f	Any other specific method of rehabilitation	Backfilling will be done by River Sand (Hydraulic Sand stowing) 89048 M <sup>3</sup>	Backfilling done by River Sand (Hydraulic Sand stowing) 81283 M <sup>3</sup>	Nil
6g	Cost incurred on watch & care during	Not Proposed	NIL	Nil

	the year			
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Waste Dump (OLD PIT is Reclaimed by back Filled by waste generated during U/G development.) Location: 2417184N & 421017E	Waste Dump (OLD PIT is Reclaimed by back Filled by waste generated during U/G development.) Location: 2417184N & 421017E	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	NIL	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	Waste Dump (OLD PIT is Reclaimed by back Filled by waste generated during U/G development.) Location: 2417184N & 421017E Quantity Proposed-23126 M <sup>3</sup>	Waste Dump (OLD PIT is Reclaimed by back Filled by waste generated during U/G development.) Location: 2417184N & 421017E- Quantity Actual- 650 M <sup>3</sup>	
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)	Proposed	Carried out	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Backfilling done in old pit within lease area. Plantation not done as proposed so violation issued.		

### 7. Mineral Conservation (2023-24)

S.N.	Item	Proposals				Actual Work				Remarks				
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade wise Sorting				Grade wise Sorting				Nil				
		Manganese Ore Details				Chemical Standard				Physical Standard				
		Ore Code	Grade of Ore	Mn.%	Phos%	SiO <sub>2</sub> %	Fe%	+75mm	+25mm	+10mm	+6mm	+3mm	-3mm	-1.5mm
		BG102	1st Grade L.P.Lumpy	48.00	0.100	10.00	4.80	0.00	0.00	96.00	1.50	1.50	1.00	0.00
		BG1408	47% L.P.Jigg.	47.00	0.100	11.00	5.50	0.00	0.00	60.00	23.00	12.50	4.50	0.00
		BG1466	46% Jiggd Fines	46.00	0.100	12.00	6.50	0.00	0.00	0.00	10.00	50.00	40.00	0.00
		BGF452	Hutch /Dust Product.	30.00	0.100	30.00	6.50	0.00	0.00	0.00	3.00	17.00	80.00	0.00
		BGF534	Hutch /Dust Product.	27.00	0.200	32.00	6.50	0.00	0.00	0.00	3.00	17.00	80.00	0.00
		BGL462	25% S.M.Grade Ore	25.00	0.100	50.00	5.00	0.00	0.00	95.00	5.00	0.00	0.00	0.00
		BGL11	SMGR LMP	30.00	0.100	38.00	5.50	0.00	0.00	95.00	5.00	0.00	0.00	0.00
		BGL12	30% Mn. SM Grade	30.00	0.100	38.00	5.50	0.00	0.00	50.00	28.00	17.00	5.00	0.00
		BGL509	20% S.M.Grade Ore	20.00	0.100	58.00	3.25	0.00	0.00	91.00	4.00	2.00	3.00	0.00
		BGL510	20% S.M.Grade Ore	20.00	0.100	56.00	3.75	0.00	0.00	0.00	25.00	12.00	63.00	0.00
		BGL564	20% S.M.Grade Ore	20.00	0.100	58.00	5.00	0.00	0.00	95.00	5.00	0.00	0.00	0.00
		BGL523	25% S.M.Grade Ore	25.00	0.130	46.00	5.50	0.00	0.00	42.00	21.00	17.00	20.00	0.00

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Beneficiation mechanical	Yes	Nil
7c	Different grade of mineral sort out at mine	Yes	Grade wise details mentioned in 7a	Nil
7d	Any beneficiation process at mines	Yes	Done	Nil
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Crushing & Screening Plant is installed within Balaghat Mine Lease area. The manganese ore excavated from the underground mine is then processed through the Crushing & Screening Plant. This plant has 5,00,000 Tones ROM handling capacity per year. ROM of the underground mine fed to receiving bunker of plant.		

### 8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	NIL	NIL	Nil
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Mineral Reject-Within lease area location 2416733N & 420299E	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Backfilling proposed 5782 m <sup>3</sup> in UG and 0.150 Ha area of OLD PIT will be Reclaimed by back Filled by waste generated during U/G development western part of the pit.	Backfilling done in UG stopes and 0.15 Ha area of OLD PIT is Reclaimed by back Filled by waste generated during U/G development.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not specified	100 Nos. of sapling planted within lease area. Cumulative plantation Done 490430 Nos.	Cumulative plantation Done 490430 Nos. Up to 31/03/2024
8g	Survival rate	Not proposed	Survival rate : 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

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

S.N.	Item	Comments	Remarks																																																								
9a	Status of submission of monthly and Annual returns	Annual return for 2023-24 was submitted on 27.06.2023. Monthly returns for 2023-24 has been submitted timely.	Nil																																																								
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been employed in the mines.	Nil																																																								
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<table border="1"> <thead> <tr> <th>Lease area (surface area) utilisation in the year (hectares):</th> <th>Under forest</th> <th>Outside forest</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>(i) Already exploited and abandoned by opencast (D-C)</td> <td>2.135</td> <td>11.390</td> <td>13.525</td> </tr> <tr> <td>(ii) Covered under current (D-C) Workings</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>(iii) Reclaimed-rehabilitated</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>(iv) Used for waste disposal</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> </tr> <tr> <td>(v) Occupied by plant, buildings, residential, welfare buildings and roads</td> <td>0.000</td> <td>42.441</td> <td>42.441</td> </tr> <tr> <td>(vi) Used for any other purpose (specify) High Speed Shaft</td> <td>0.000</td> <td>1.134</td> <td>1.134</td> </tr> <tr> <td>(vii) Work done under progressive mine closure plan during the year "Minear! Reject Satokig"</td> <td>0.000</td> <td>1.828</td> <td>1.828</td> </tr> </tbody> </table>	Lease area (surface area) utilisation in the year (hectares):	Under forest	Outside forest	Total	(i) Already exploited and abandoned by opencast (D-C)	2.135	11.390	13.525	(ii) Covered under current (D-C) Workings	0.000	0.000	0.000	(iii) Reclaimed-rehabilitated	0.000	0.000	0.000	(iv) Used for waste disposal	0.000	0.000	0.000	(v) Occupied by plant, buildings, residential, welfare buildings and roads	0.000	42.441	42.441	(vi) Used for any other purpose (specify) High Speed Shaft	0.000	1.134	1.134	(vii) Work done under progressive mine closure plan during the year "Minear! Reject Satokig"	0.000	1.828	1.828	Nil																								
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9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Yes, Mineral reject 4743 tones stacked at Mineral Reject Dump BD	Nil																																																								
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock of ROM is Nil	Nil																																																								
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(e) Dioxide ore	0	0	0	0	0																																																						
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of production: Rs 6909.03 per tonne	Nil																																																								
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets reported is Rs 1583996628.00/-	Nil																																																								
9k	Scrutiny of Annual return on mining Machineries	Yes	Nil																																																								

Details of violations observed during current inspection and compliance position of earlier violation pointed out					
Violation observed			Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
11(1) of MCDR 2017	20.02.2025				

