

MCDR INSPECTION REPORT FOR THE PERIOD OF 2023-24

1) Name of Inspecting officer:	Mr. Vikrant Khedikar
2) Designation	Senior Assistant controller of mines
3) Accompanying mine official with designation	
4) Date of Inspection	23/07/2024

Sl. No.	Particulars	Details
1.	Name of the Mines	Murma Graphite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area :- 4.93 Ha (GM land) Forest land: - Nil
3.	Mine code	28BHR18010
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/153/2011
5	Name of the lessee, Address, Phone, email and fax number	Shri K.K. PODDAR, PODDAR HOUSE BARIATU ROAD, P.S. BARIATU RANCHI, JHARKHAND Phone:0651-2313248 Poddar.bharat@graphitecgi.in or dev@graphitecgi.in
6	Village	Murma
7	Taluka/Mandal	Satbarwa
8	District	Palamu
9	Pin code	834009
10	State	Jharkhand
11	Post Office	SATBARWA
12	Nearest Police Station	DALTONGANJ
13	Nearest Railway station	Daltonganj
14	Date of Grant of Mining Lease	05/03/1990
15	Date of Execution	31/10/2019 (Supplementary lease deed)
16	Date of Opening of Mine	05/03/1990
17	Date of First Renewal, if applicable and its period & expiry	05/03/2005 (for 15 years upto 04/03/2020) Deed execution date 20/05/2008.
18	Date of second Renewal, if applicable and its period & expiry	31/10/2019 (Supplementary lease deed) under Sec 8A upto 04/03/2040.
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 K.K.PODAR, PODDAR HOUSE BARIATU ROAD, P.S. BARIATU RANCHI, JHARKHAND Phone:0651-2313248 Poddar.bharat@graphitecgi.in or dev@graphitecgi.in
21	Name of the Mine Agent with Address, phone email, fax number and date appointment in mines.	NIL
22	Name of the Mines Manager with Address, Phone, email, fax number and date of appointment	Not Available
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Not Available
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not Available
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Review of Mining Plan: 16/11/2020 Plan period 2019-20 to 2023-24 Letter no - RAN/PLM/GRP/MP-28/2019-20
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Existing rule 11 MCDR1988 - 20/03/1995 Mining Scheme rule 12 MCDR1988- 18/03/2002 PMCP under 23B (2) for MS - 20/04/2005 MP modify under MCR 1960 - 21/12/2015 MP review under 17(1) MCR 2016 - 16/11/2020
27	Mineral(s) granted in lease and proved for mining	Graphite
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	A Other than Fully Mechanized
30	Captive/Non Captive	Non Captive

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.)

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	5 Coring type Borehole 100×100 grid interval	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	NIL	
1c	Exploration Agency & Expenditure in lakh Rupee during the year	NIL	NIL	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	4 Ha	NIL	
1e	Balance reserves as on 01.04.2024	NA	394713 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Proposed 5 Coring type Borehole 100×100 grid interval in 2021-22.		Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.

Development

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	In year 2023-24 working was proposed in quarry no 1, further extend towards eastern direction with two benches from mRL 292-286.	NIL	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
2b	Separate benches in top soil, overburden and mineral (Rule 15)	OB- 6m×6m, Mineral- 6m×6m	NIL	NIL
2c	Stripping ratio or ore to OB ratio	1:0.88 (Tonnes :Cum)	NIL	NIL
2d	Quantity of topsoil generation in m ³	NIL	NIL	
2e	Quantity of overburden generation in m ³	3450 m3	NIL	
2f	General remarks of inspecting officer on development etc.	In year 2023-24 working was proposed in quarry no 1, further extend towards eastern direction with two benches from mRL 292-286.		Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of

			mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
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Exploitation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposal for production	Quarry - 1	NIL	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
3b	Quantity of ROM mineral production proposed	41820 Tonnes	NIL Tonnes	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
3c	Recovery of salable/usable mineral from ROM production	90%	NIL	
3d	Quantity of mineral reject generation	4182 Tonnes	NIL	
3e	Grade of mineral reject generation and threshold value declared	(i) For flaky variety- 2% Fixed Carbon (F.C) (Min.)	NIL	

		(ii) For amorphous variety - 10% Fixed Carbon(F.C)(Min.)		
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NA	NIL	
3h	Manual/Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
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	No	No	Instead of blasting, crackamite and rock breaker is used.
3k	Provision of mining machineries in mineral benches	Yes	Yes	Mechanized
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NIL	NIL	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
3m	Total area covered under excavation/pits	Mining – 2.61 Ha	Mining – 2.39 ha	NIL
3n	Ore to OB ratio for the pit/mine during the year	1:0.88	NIL	NIL

3o	Total area put in use under different heads at the end of year	4.93 Ha	NIL		Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
3p	Production of ROM mineral during last five-year period, as applicable	2019- 20	53166	2019-20	11618
		2020-21	34024	2020-21	2415
		2021-22	40268	2021-22	0
		2022-23	41432	2022-23	0
		2023-24	41820	2023-24	0
3q	General remarks of inspecting officer on method of mining etc.	Proposed to work in Quarry no 1 in 2023- 24, 41820 Ton of ROM production proposed.		NIL	
				Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.	

Solid Waste Management-Dumping

Sl.No	Item	Proposal (2023-24)	Actual Work(2023-24)	Remarks
4a.	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Only Backfilling	NIL	NIL

4b	Location of topsoil, & OB & mineral reject dumps (Give coordinates with mRL)	NIL	NIL	NIL
4c	Number of dumps within lease area and outside lease area	1	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Eastern side of pit	NIL	NIL
4e	Number of active & alive dumps	1	1	NIL
4f	Number of dead dumps	1	NIL	NIL
4g	Number of dumps stabilized	NIL	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	Only backfill proposed	NIL	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.

Solid Waste Management-Backfilling

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NIL	NIL	NIL
5b	Area under backfilling of mined out area	0.10 ha	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 35)	NIL	NIL	NIL
5d	Total area fully reclaimed & rehabilitated	0.02 Ha	NIL	NIL
5e	General remarks of inspecting officer on backfilling, reclamation etc.			Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.

Progressive Mine Closure Plan

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	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	Yes	NIL

6b	<p>Management of worked/mined out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of sapling planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch & care during the year</p>	<p>NA</p> <p>0.10 Ha</p> <p>500</p> <p>Nil</p> <p>Nil</p> <p>50000/-</p>	<p>NA</p> <p>0.04 Ha</p> <p>Nil</p> <p>Nil</p> <p>Nil</p> <p>Nil</p>	<p>Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.</p>
6c	<p>Compliance on reclamation and rehabilitation by back filling</p> <p>i) Voids available for backfilling (LxBxD)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	<p>0.02 Ha</p> <p>NIL</p> <p>NIL</p> <p>Nil</p> <p>Nil</p>	<p>NIL</p> <p>NIL</p> <p>NIL</p> <p>NIL</p> <p>NIL</p>	<p>Transit challan has been stopped from 05.03.2020 by the DMO, Palamu alleging compensation under section 21(5) of MMDR act, based on misinterpretation of the supreme court judgement on 02.08.2017. Mine not working.</p>

6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>500</p> <p>Nil</p> <p>Plantation</p>	<p>NIL</p> <p>Nil</p> <p>Plantation</p>	<p>Violation issued</p> <p>Nil</p> <p>Nil</p>
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring to be done	Nil	<p>Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining</p>

				operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
6f	General remarks of inspecting & progressive closure operations.			Transit challan has been stopped from 05.03.2020 by the DMO, Palamu alleging compensation under section 21(5) of MMDR act, based on misinterpretation of the supreme court judgement on 02.08.2017.No work. Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022.

Mineral Conservation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines	Nil	Nil	Nil
7d	Any beneficiation process at mines	NA	NA	NA

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			<p>Transit challan has been stopped from 05.03.2020 by the DMO, Palamu alleging compensation under section 21(5) of MMDR act, based on misinterpretation of the supreme court judgement on 02.08.2017.No work.</p> <p>Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022.</p>
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Environment

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No generation of topsoil only OB and SB. Transit challan has been stopped from 05.03.2020 by the DMO, Palamu alleging compensation under section 21(5) of MMDR act, based on misinterpretation of the supreme

				court judgement on 02.08.2017.
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	NIL	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	5541 M3	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	0.02 Ha	NIL	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	Yes	NIL	NIL
8g	Survival rate	NA	NIL	
8h	Water sprinkling on roads to control airborne dust	Yes	NIL	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.			Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.

Compliance of Rule 45

Sl.No	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns			Monthly Returns Submitted within the stipulated time.
Sl.No.	Item			Remarks

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer – Shri Hilarious Bara Geologist – Shri Krishnedu Das	NIL	Annual return was submitted within the stipulated time..
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C)Workings 2.39ha.,Used for waste disposal 0.40ha,Occupied by plant, buildings, residential, welfare buildings & roads 0.185ha.	Covered under current (O/C)Workings around 2.00ha.	NIL
9d	Scrutiny of Annual return on afforestation	NIL	NIL	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NIL	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- Nil.	Found Correct	Transit challan has been temporarily stopped as such production was stopped in August 2020. Mine is temporarily closed from August 2020, Form - E is submitted to IBM, Ranchi.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	Sale value, Ex- Mine Price and Production cost NIL	Found Correct	Transit challan has been temporarily stopped as such production was

				stopped in August 2020. Mine is temporarily closed from August 2020, Form - E is submitted to IBM, Ranchi.
9h	Scrutiny of Annual return on fixed assets	NIL	NIL	NIL
9i	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR 8.490 CUM/MN 2os ,Non Electrical DUMPER 10.000 TONNE 4nos, Non Electrical OTHER HEM MACHINERY 242.000 1 Non-Electrical opencast OTHER HEM MACHINERY 100.000 1 Non-Electrical Opencast GENERATOR (DIESEL) 20.000 KWH 1 Non Electrical Opencast PUMPS (ELEC.) 1320.000 L/MN 4 ,Electrical OTHER HEM MACHINERY 148.000 1 Non-Electrical	Mine is temporarily closed from August 2020, Form - E is submitted.	Mine is temporarily closed from August 2020, Form - E is submitted. Mine was suspended under provision of rule 11(2) on 16/04/2021 and order of suspension was revoked on 16/03/2022. Again on 17/11/2023 Order of suspension of mining operations was issued under rule 11(2) for non-compliance. Mine is not in operation.

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

Vikrant Khedikar,
Sr. Assistant controller of Mines,
08th Aug 2024