

**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	Mr. K. Khalifa (Mines Manager)
4) Date of Inspection	23/07/2024

<b>Sl. No.</b>	<b>Particulars</b>	<b>Details</b>
1.	Name of the Mines	Betla Graphite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area :- 7.216 Ha Forest land: - Nil
3.	Mine code	28BHR18014
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/532/2011
5	Name of the lessee, Address, Phone, email and fax number	M/s Parijat Mining Industries (India) Pvt. Limited TOWN HILL ROAD, OPP. SHIVAJEE MAIDAN, DALTONGANJ (MEDININAGAR), 822101.
6	Village	Betla
7	Taluka/Mandal	Manika
8	District	Latehar
9	Pin code	822111
10	State	Jharkhand
11	Post Office	Betla National Park
12	Nearest Police Station	Barwadih
13	Nearest Railway station	Daltonganj
14	Date of Grant of Mining Lease	29/09/1995
15	Date of Execution	29/09/1995
16	Date of Opening of Mine	17/06/1996
17	Date of First Renewal, if applicable and its period & expiry	29/09/2015 lease is extended up to 28/09/2045. Supplementary lease deed added with conditions.
18	Date of second Renewal, if applicable and its period & expiry	NA
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	Sri. Harsh Vardhan Bajaj (Nominated Owner), M/s. Parijat Mining Industries Private Limited, Town Hall Road, Opp. Shivajee Maidan, Daltonganj (Medininagar)- 822101 E-Mail: hvbajaj@gmail.com
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	Mr. K. Khalifa. M/s. Parijat Mining Industries Private Limited, Town Hall Road, Opp. Shivajee Maidan, Daltonganj (Medininagar)- 822101 Date of appointment: - 04/08/2022
23	Name of the mining engineer, qualification and total experience with Address, phone, email, fax number and date of appointment in Mines.	Mr. K. Khalifa. M/s. Parijat Mining Industries Private Limited, Town Hall Road, Opp. Shivajee Maidan, Daltonganj (Medininagar)- 822101 Total Experience: - 34 Years Date of appointment: -04/08/2022
24	Whether Geologist and Mining Engineer appointed in Mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Partho Pratim Dey, Doranda, Kali Mandir Road, Near Puja Tent Service, Doranda, Ranchi. Date: - 01.05.2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Modified Mining Plan: 18/09/2023 Plan period 2023-24 to 2025-26  Letter no - RAN/Latehar/Graphite/MMP-5/2023-24
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>Mining Plan</b> Date of Approval 17/06/1996 Plan period 1996-97 to 2000-01 <b>Scheme of mining</b> Date of Approval 14.11.2014 Plan period 2014 to 2016 <b>Review mining Plan</b> Date of Approval 12/09/2016 Plan period 2016-17 to 2020-21 <b>Review mining Plan</b> Date of Approval – 02/05/2022 Plan period 2022-23 to 2025-26
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)	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	4	NIL	State Government had constructed road within the lease at the eastern part of the mine posing hindrance for further development of mine as well as for the exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	6	NIL	State Government had constructed road within the lease at the eastern part of the mine posing hindrance for further development of mine as well as for the exploration.
1c	Exploration Agency & Expenditure in lakh Rupee during the year	NA	NA	--
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.77 Ha	NIL	State Government had constructed road within the lease at the eastern part of the mine posing hindrance for further development of mine as well as for the exploration.
1e	Balance reserves as on 01.04.2024	NA	146558 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.			State Government had constructed road within the lease at the eastern part of the mine posing hindrance for further development of mine as well as for the exploration. Lessee had submitted "Notice of temporary discontinuance".

### Development

Sl.No	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t lease area	Quarry - 1	Quarry - 1	2390 M3 of Overburden generated during the year.
2b	Separate benches in top soil, overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.68 (Tonnes :Cum)	1:0.42 (Tonnes :Cum)	

2d	Quantity of topsoil generation in m <sup>3</sup>	NIL	NIL	
2e	Quantity of overburden generation in m <sup>3</sup>	5832 m <sup>3</sup>	2930 m <sup>3</sup>	
2f	General remarks of inspecting officer on development etc.			State Government had constructed road within the lease at the eastern part of the mine posing hindrance for further development of mine as well as for the exploration.

### Exploitation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposal for production	1	1	
3b	Quantity of ROM mineral production proposed	23061 Tonnes	12734 Tonnes	Production is less due to problem due to road constructed by state government.
3c	Recovery of salable/usable mineral from ROM production	80%	100%	
3d	Quantity of mineral reject generation	4612 Tonnes	NIL	
3e	Grade of mineral reject generation and threshold value declared	(i) For flaky variety- 2% Fixed Carbon (F.C) (Min.) (ii) For amorphous variety - 10% Fixed Carbon(F.C)(Min.)	F.C.-15.32% (Max) Ash -80.86% (Av.) V.M.-2.80% (Av.) M.C.-1.02% (Av.) (Moisture Content)	
3f	Quantity of sub-grade mineral generation	NA	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		
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	Yes		Yes		
3m	Total area covered under excavation/pits	Mining – 1.720 Ha		Mining – 1.720 ha		
3n	Ore to OB ratio for the pit/mine during the year	0.68		0.42		
3o	Total area put in use under different heads at the end of year	Mining	1.720 Ha	Mining	1.72 ha	
		Waste Dump	0.37 ha	Waste Dump	0.210 ha	
		Mineral Beneficiation Plant	0 ha	Mineral Beneficiation Plant	0 ha	
		Mineral Storage	0.08 ha	Mineral Storage	0.08 ha	
		Tailing Pond	0 ha	Tailing Pond	0 ha	
		Roads, Conveyors, pipeline, electric line	0.38 ha	Roads, Conveyors, pipeline, electric line	0.38 ha	
		Infrastructure	0.03 ha	Infrastructure	0.03 ha	
		Township	0 ha	Township	0 ha	
		Topsoil	0 ha	Topsoil	0 ha	
		Effluent Treatment Plant	0 ha	Effluent Treatment Plant	0 ha	
		Others (Rainwater harvesting, Back Filling Area)	0 ha	Others (Rainwater harvesting, Back Filling Area-1)	0 ha	
		Green Belt	0.24 ha	Green Belt	0.17 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	31824 MT	2019-20	4676 MT	2021-22 mine was suspended and then revoked on 04/08/2022. Due to pandemic and less demand of ore production is less.
		2020-21	31762 MT	2020-21	3259 MT	
		2021-22	0 MT	2021-22	0 MT	
		2022-23	26802 MT	2022-23	9356 MT	
		2023-24	23061 MT	2023-24	12734 MT	
3q	General remarks of inspecting officer on method of mining etc.					

**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)	OB dumping in earmarked area and mineral rejects.	Dump 4	
4b	Location of topsoil, & OB & mineral reject dumps (Give coordinates with mRL)	Latitude: 23:56:17.32 23:56:18.52 Longitude: 84:22:37.02 84:22:38.98	Latitude: 23:56:17.32 23:56:18.52 Longitude: 84:22:37.02 84:22:38.98	
4c	Number of dumps within lease area and outside lease area	1	1	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North side of the pit	North side of the pit	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	3	3	
4g	Number of dumps stabilized	3	3	
4h	Whether Retaining wall or garland drain all along dumps are there	84 Mtr (Retaining wall) 88 Mtr ( Garland drain)	NIL	Violation Issued
4i	Length of Retaining wall or garland drain all along dump	84 Mtr (Retaining wall) 88 Mtr ( Garland drain)	NIL	Violation Issued
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Violation issued regarding retaining wall all along the dump and for drain to avoid rain water being percolated outside the lease.

**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	Active 1 pit for mineral extraction	Active 1 pit for mineral extraction	
5b	Area under backfilling of mined out area	0 ha	0 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 35)	NIL	NIL	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			NIL

**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	Annual Report on PMCP to be submitted in time.	Annual Report on PMCP submitted in time along with Annual Return.	Annual report 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 sapling planted during the year	NA	NA	
	iv) Cumulative no. of plants	NA	NA	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	NA	NA	

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>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>NIL</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>530</p> <p>0.03</p> <p>Plantation</p>	<p>200</p> <p>0.02</p> <p>Plantation</p>	<p>Violation issued</p>
6e	<p>Compliance of Environmental monitoring (core zone &amp; buffer zone)</p>	<p>Environmental monitoring to be done</p>	<p>Environmental monitoring is done</p>	
6f	<p>General remarks of inspecting &amp; progressive closure operations.</p>			<p>Violation for plantation issued.</p>



### Mineral Conservation

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			Entire ROM stored off the pit which is then transported to the plant.

### Environment

Sl.No	Item	Proposal (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock rejects and fines (Rule 33)	YES	YES	Dump 4
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	Only one active pit.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 42)	Yes	Yes	
8g	Survival rate	80%	40%	Violation issued
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.			For implementation of green belt development as per plan violation is issued.
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**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	Appointed	Appointed	Annual return was submitted 5 days late hence fine imposed as per amended MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per Modified Mining Plan	As per Modified mining Plan	
9d	Scrutiny of Annual return on afforestation	As per Modified Mining Plan	As per Modified Mining Plan	Afforestation and green belt development is not as per the approved modified mining plan hence violation is issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NA	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per Modified Mining Plan	As per Modified Mining Plan	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost.	As per Modified Mining Plan	As per Modified Mining Plan	

9h	Scrutiny of Annual return on fixed assets	Applicable	NIL	
9i	Scrutiny of Annual return on mining machineries	Applicable	NIL	

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

1. Violation observed: - MCDR- 2017 Rule 11(1) and issued on date 26/07/2024.

Vikrant Khedikar,  
Sr. Assistant controller of Mines,  
27<sup>th</sup> July 2024