

INDIAN BUREAU OF MINES

--:-- Inspection Report --:--

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	BAINIBASA GRAPHITE MINE	Lease Area (Ha) :	58.704
Forest Area (Ha) :	44	Mine Code :	28ORI27015
Registration Number :	IBM/4724/2011	Name of lessee :	PRADHAN INDUSTIRES
Address of lessee :	House No 1 ,Telenga Bazar, Cuttack Sadar	Phone of lessee :	-
Email of lessee :	Pradhanindustriesctc@yahoo.com	Fax Number :	N/A
Village :	Bainibasa	Taluka / Mandal :	Muniguda
District :	Rayagada	Pincode :	753009
State :	Odisha	Post Office :	N/A
Nearest Police Station :	Purighat Thana	Nearest Railway Station :	Cuttack
Date of Grant of Mining Lease :	2017-01-11	Date of Mining Lease Execution :	2017-01-11
Date of opening in the mine :	2019-12-27		

Nominated Owner Details			
Name of the Nominated Owner :	Mr SUNANDAN PRADHAN	Nominated Owner Address:	Telenga Bazar, Purighat, Cuttack
Nominated Owner Mobile :	9937197435	Nominated Owner Email :	Saisunandanpradhan@gmail.com
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	2016-11-23
Mining Engineer Details			
Name of the Mining Engineer :	Shri Chiranjib Satapathy	Qualification of Mining Engineer :	Bachelor Of Technology In Mining Engineering
Address of Mining Engineer :	At/Po - Muniguda, Dist. - Rayagada, Odisha	Phone of Mining Engineer :	N/A
Email of Mining Engineer :	N/A	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2023-03-02		
Geologist Details			
Name of the Geologist :	Shri. Harihara Barik	Qualification of Geologist :	M. Sc (Geology)
Address of Geologist :	At - Bandhamandi, Po - Godibali, PS - Kashipur, Dist. - Rayagada	Phone of Geologist :	N/A
Email of Geologist :	N/A	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2018-02-28		
Mine Manager Details			
Name of the Mine Manager :	Shri Chiranjib Satapathy	Qualification of Mine Manager :	Bachelor Of Technology In Mining Engineering
Address of Mine Manger :	At/Po - Muniguda, Dist. - Rayagada, Odisha	Phone of Mine Manger :	N/A
Email of Mine Manger :	N/A	Fax Number of Mine Manger :	N/A

Date of Mine Manger Appointment :	2019-03-15		
Mineral(s) granted in lease and proved for mining :	GRAPHITE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	N/A
Method of mining :	Open Cast	Category :	MECHANISED
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	POULOMMI MONDAL
Designation :	JUNIOR MINING GEOLOGIST
Name of the Accompanying Official from Mine :	Er. P.K. Mohanty, GM, Technical; Sri Harihara Barik, Sr. Mining Geologist; Sri Chiranjib Satapathy, Mines Manager; Sri Manoj Kumar Samatntasingar, Site Incharge; Sri Mohan Charan Pradhan, Deputy Manager Commercial
Designation of the Accompanying Official :	GM, Technical; Sr. Mining Geologist; Mines Manager; Site Incharge; Deputy Manager Commercial
Type of Inspection :	MCDR,MPAS,STR
Date of Inspection :	27/10/2025
Review year considered for MCDR Inspection :	2024-2025

2.2.1 : Exploration Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of Core Boreholes	Nil	Nil	0.000	No Violation
<p>Remark: As per the Review of Mining Plan approved vide letter No. RMP/A/38 ORI/BHU/2020-21 dated 12.01.2021 it was proposed to drill 39 nos. of exploratory bore holes in the year 2021-22. During inspection it was observed that 21 nos. of bore holes drilled during the year 2021-22 and the balance bore holes has not been drilled till date. Violation was issued based on the last inspection for backlog of 18 nos. of boreholes, which has been clarified by the Lessee that 12 nos. of boreholes were already drilled during FY 2020-21 and same was approved by this office on 31/01/2024. Furthermore, the lessee proposed to drill the balance 6 numbers of boreholes during FY 2023-24 or 2024-25 which have not been achieved yet. Remark File: NIL</p>					
2	Number of DTH Boreholes	Nil	Nil	0.000	No Violation
<p>Remark: NIL Remark File: NIL</p>					
3	Number of exploratory pits / trial pits	Nil	Nil	0.000	No Violation
<p>Remark: NIL Remark File: NIL</p>					
4	Number of exploratory Trenches	Nil	Nil	0.000	No Violation
<p>Remark: NIL Remark File: NIL</p>					
5	Lateral exploration status for the lease area - G1	Nil	Nil	0.000	No Violation

Remark: No exploration proposal was given for FY 2024-25 Remark File: NIL					
6	Lateral exploration status for the lease area-G2	Nil	Nil	0.000	No Violation
Remark: At the beginning of RMP from 2021-22 to 2025-26, the exploration status of the lease area is as follows: 19.180 ha area under G2 level and unexplored area 39.524 ha. Remark File: NIL					
7	Lateral exploration status for the lease area-G3	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
8	Lateral exploration status for the lease area-G4	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
9	UNFC category wise reported Resources/Reserves as per MP/MMP ROMP Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	As per approved RMP as on 23.10.2020 Mineral Reserve - 4,09,416t (122) Blocked Resource - 15960t (222) Total Mineral Resources (331+332+333+334) 0 Total reserve + resource: 425,376t	As per AR as on 01.04.2025 Mineral Reserve - 3,66,573t (122) Blocked Resource - 15960t (222) Total Mineral Resources (331+332+333+334) 0 Total reserve + resource: 382,533t	NA	No Violation
Remark: NIL Remark File: NIL					

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2.3.1 : Development - Opencast Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Location of development w.r.t. lease area	Coordinates- 210S to 278S/ 141W to 241W 386S to 431S/382W to 441W Cross Section Q1 - X4Y4, Q2-X1Y1	Broadly as per proposal	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of overburden generation in m3	28480	26700	1780.000	No Violation
Remark: Generation of overburden falls short by 6.25% as compared to the quantity proposed Remark File: NIL					
3	Quantity of topsoil generation in m3	7788	6000	1788.000	No Violation
Remark: Generated topsoil is 77% of the quantity proposed Remark File: NIL					
4	Stripping ratio : ore to OB ratio	1: 2.1	1: 2.08	NA	No Violation
Remark: NIL Remark File: NIL					

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2.4.1 Exploitation - Opencast Mine Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of pits / Blocks proposed for production	Two (Quarry 1 and 2)	Two (Quarry 1 and 2)	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of ROM mineral production proposed (in T)	13272	12827	445.000	No Violation
Remark: Actual ROM production fell short of the proposed quantity by 3.35%. Remark File: NIL					
3	Recovery of salable/usable mineral quantity from ROM production in T)	841	554.822	286.178	Rule 11(1)
Remark: Actual saleable ROM production fell short of the proposed quantity by 34%. Remark File: NIL					
4	Quantity of mineral reject/Sub-grade generation	1327	0	1327.000	Rule 11(1)
Remark: No mineral reject was generated. Remark File: NIL					
5	Grade of mineral reject/sub-grade generation as per threshold value declared	2%FC to 3 % FC	0	NA	No Violation
Remark: NIL Remark File: NIL					
6	Manual/Mechanised method adopted for segregating subgrade/mineral	Semi mechanized (Other than fully mechanized)	Semi mechanized method adopted for segregation of subgrade mineral form ROM	NA	No Violation

	rejects from ROM				
Remark: NIL Remark File: NIL					
7	Whether height of benches in Overburden & mineral suitable for method of mining proposed in mining plan	As per Mining plan the Bench height is supposed to be maintained at 3m and bench width 6m	The height and width of benches in overburden and mineral is broadly maintained as proposed in RMP	NA	No Violation
Remark: NIL Remark File: NIL					
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	ROM and Sub - grade are blended and the homogenous mixture is utilized in the Beneficiation plant.	NA	No Violation
Remark: NIL Remark File: NIL					

2.4.3 : Exploitation - Dump Working Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of dumps proposed for production	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of dump material handling	NA	NA	NA	No Violation

	Proposed (in Tonne)				n
Remark: NIL Remark File: NIL					
3	Recovery of salable/usable mineral from dump production (in Tonne)	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
4	Production from dump(s) during the year	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
5	Quantity of mineral reject generation	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
6	Grade of mineral reject generation and threshold value declared	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
7	Any analysis or beneficiation study proposed & carried out for mineral reject	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
8	Manual / Mechanized method adopted for dump working	NA	NA	NA	No Violation

Remark: NIL
 Remark File: NIL

2.5.1 : OB/Waste Dumps Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Separate dumping of topsoil, OB & mineral rejects, fines, tailings proposed	Broadly as per proposal	NA	No Violation
Remark: NIL Remark File: NIL					
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Topsoil - 550S/610S and 410W / 540W OB Dump - 340S/510S and 540W / 700W Sub grade - 60S /140S and 450W / 520W	Broadly as per proposal	NA	No Violation
Remark: Sub - grade ore / mineral rejects which will be initially stacked and subsequently be blended with the ROM and the homogenous mixture will be utilized in the Beneficiation plant. Remark File: NIL					
3	Number of active & Inative dumps	Active Dump -1	Active Dump -1	NA	No Violation
Remark: NIL Remark File: NIL					
4	Number of dead dumps	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					

5	Number of dumps proposed for stabilised	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					

2.6.1 : Solid Waste Management - Backfilling (Opencast) Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Nil	No Violation
Remark: The mining lease is not matured enough for backfilling Remark File: NIL					
2	Year-wise area under backfilling of mined out area	Nil	Nil	Nil	No Violation
Remark: NIL Remark File: NIL					
3	Year-wise topsoil generation, Utilization	Nil	Nil	Nil	No Violation

	and Stored proposal (in m3)				n
Remark: The Top soil has been dumped in the earmarked area and subsequently utilizing for plantation work Remark File: NIL					
4	Total area fully reclaimed & rehabilitated	Nil	Nil	Nil	No Violation
Remark: NIL Remark File: NIL					
5	Locations of proposed reclamation & rehabilitated	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					

2.7.1 : Progressive Mine Closure Plan (PMCP) Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Compliance on reclamation and rehabilitation by backfilling/Other means Total area and numbers of plantation proposed.	No proposal for back filling in the Review of Mining Plan Period. Plantation of 3000 nos. saplings in 1.20Ha area was proposed.	NIL Plantation carried out as per proposal	NA	No Violation
Remark: NIL Remark File: NIL					
2	Rehabilitation by	No proposal for Rehabilitation by making water	NIL	NA	No

	making water reservoir	reservoir			Violation
Remark: NIL Remark File: NIL					
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	3000Nos. 1.20Ha. Plantation	3000Nos. 1.20Ha. Plantation	NA	No Violation
Remark: NIL Remark File: NIL					
4	Compliance of Environmental monitoring (core zone & buffer zone)	Core Zone & Buffer Zone	Environment monitoring in the Core Zone and Buffer Zone has been carried out periodically.	NA	No Violation
Remark: NIL Remark File: NIL					

2.8.1 : Mineral Conservation Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting of ROM within lease area was proposed.	Carried out as per proposal	NA	No Violation
Remark: Sub - grade ore / mineral rejects is initially stacked and subsequently blended with the ROM and the homogenous mixture is dispatched to Laxmipur plant for beneficiation Remark File: NIL					

2	Different grade of mineral sorted out at mines	ROM +3%FC Subgrade 2 - 3%FC	ROM over +3%FC and Subgrade over 2-3% FC have been sorted separately in the mine and stacked in the earmarked area.	NA	No Violation
Remark: NIL Remark File: NIL					
3	Any beneficiation process at mines	Yes	Beneficiation plant is yet to be commissioning in the mining lease area.	NA	No Violation
Remark: NIL Remark File: NIL					
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	Proposal was given	Sub - grade ore / mineral rejects which will be initially stacked and subsequently beneficiated in the lease area for semi - enrichment in lean period mostly in rainy season	NA	No Violation
Remark: NIL Remark File: NIL					

2.9.1 : Environment Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Separate removal and utilization of topsoil	Topsoil removal proposal for FY: 2024-25 - 7788 m3	Actual topsoil generation for FY 2024-25 is 6000 m3. Utilized for Plantation in the year FY: 2024-25 is 2477 m3	NA	No Violation
Remark: NIL Remark File: NIL					
2	Use of overburden, waste rock, rejects and	NIL	NIL	NA	No Violation

	finer dumps for restoring the land to its original use				n
Remark: NIL Remark File: NIL					
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No reclamation and rehabilitation have been proposed in this Review of Mining Plan period	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
4	Plantation & Survival rate	3000Nos	3000Nos & 39%	NA	Rule 26(1)
Remark: The survival rate of plantation is very low Remark File: NIL					
5	Water sprinkling on roads to control airborne dust	Mine water will be used for water spraying for dust suppression.	Water sprinkling by truck mounted sprinklers used for dust suppression	NA	No Violation
Remark: NIL Remark File: NIL					

2.10 : Annual Return Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Submission of Online Monthly and Annual returns in prescribed	Monthly returns under Rule 45(5)(b)(i) of MCDR 2017 by 10th day of every month. Annual return in Form G1 to be submitted under Rule 45(5)(c)(i) of	Online monthly and annual returns have been submitted within time	Nil	No Violation

	period or not	MCDR 2017 by 1st July of every year.			
Remark: NIL Remark File: NIL					
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Mining Engineer & Geologist shall be appointed as per provisions of Rule 55 of MCDR,2017	Yes, Mining Engineer & Geologist has been appointed as per provisions of Rule 55 of MCDR,2017	Nil	No Violation
Remark: NIL Remark File: NIL					
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
5	Notices and Returns for the lease area submitted or not where fine applicable	NA	NA	NA	No Violation
Remark: NIL Remark File: NIL					
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	-	Sale value: Rs. 277411.00 Ex. Mine price: Rs. 500 production cost: Rs. 345.22	NA	No Violation
Remark: NIL Remark File: NIL					

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2.11 : SDF Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Start Ratings accorded for mine during last 3 years	-	3 star	-	No Violation
Remark: NIL Remark File: NIL					

Part-III : Other Reports**3.1.1 : Upload Other Reports**

S.N.	Reports File	Remark File Description
1	NIL	Nil

Part-IV : Summary Details**4.1 : Summary of Violations**

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Exploitation - Opencast Mine : Recovery of salable/usable mineral quantity from ROM production in T)	841	554.822	286.178	Rule 11(1)
Remark: Actual saleable ROM production fell short of the proposed quantity by 34%. Remark File: NIL					
2	Exploitation - Opencast Mine : Quantity of mineral reject/Sub-grade generation	1327	0	1327.000	Rule 11(1)
Remark: No mineral reject was generated. Remark File: NIL					
3	Environment : Plantation & Survival rate	3000Nos	3000Nos & 39%	NA	Rule 26(1)
Remark: The survival rate of plantation is very low Remark File: NIL					

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Esigned by: POULOMMI MONDAL
 Date: 15/01/2026 05:30:49 PM