

INDIAN BUREAU OF MINES

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

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	PRADHAN INDUSTRIES	Lease Area (Ha) :	73.427
Forest Area (Ha) :	3	Mine Code :	28ORI27001
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 :	Bandhamandi	Taluka / Mandal :	Kashipur
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 :	1991-09-27	Date of Mining Lease Execution :	1991-09-27
Date of opening in the mine :	Nilsss		

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 Satyajit Samal	Qualification of Mining Engineer :	Bachelor Of Technology In Mining Engineering
Address of Mining Engineer :	At - Bandhamandi, Po - Godibali, Dist. - Rayagada	Phone of Mining Engineer :	Nil
Email of Mining Engineer :	Pradhanindustriesctc@yahoo.com	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2022-12-21		
Geologist Details			
Name of the Geologist :	Shri. Harihara Barik	Qualification of Geologist :	M Sc. (Geology)
Address of Geologist :	Address Of Geologist: At - Bandhamandi, Po - Godibali, PS - Kashipur, Dist. - Rayagada	Phone of Geologist :	N/A
Email of Geologist :	Barik.harihara@gamil.com	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2018-02-28		
Mine Manager Details			
Name of the Mine Manager :	Mr. Bhagyadhara Mahalik	Qualification of Mine Manager :	Bachelor Of Technology In Mining Engineering
Address of Mine Manger :	At - Bandhamandi, Po - Godibali, Ps - Kashipur, Dist. - Rayagada, Odisha	Phone of Mine Manger :	N/A

Email of Mine Manger :	Bhagyabls90@gmail.com	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 :	2025-12-03 (2026 - 2030)
Method of mining :	Open Cast	Category :	OTHER_THAN_MECHANISED
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	POULOMMI MONDAL
Designation :	Inspection Officer
Name of the Accompanying Official from Mine :	Er. P.K. Mohanty, GM, Technical; Sri Harihara Barik, Sr. Mining Geologist; Sri Debashis Satapathy, Mining Engineer; Sri Mohan Charan Pradhan, Deputy Manager Commercial
Designation of the Accompanying Official :	GM, Technical; Sr. Mining Geologist; Mining Engineer; Deputy Manager Commercial
Type of Inspection :	MCDR,MPAS,STR
Date of Inspection :	28/10/2025
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 RMP approved vide letter No. RMP/A/23-ORI/BHU/2020-21 dated 09.11.2020, 10 exploratory boreholes each were proposed for the years 2021-22 and 2022-23. During inspection, it was observed that only 15 boreholes have been drilled so far. Although the lessee proposed to drill the remaining five boreholes during 2023-24 or 2024-25 in compliance with the violation letter dated 04.12.2023 (Letter No. MCDR-MiFL/0GR/3/2023-BBS-IBM_RO_BBS), no boreholes were drilled during the said period. 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	6.618	73.427	NA	No Violation

Remark: Entire potential mineralized area has been explored under G1 level of exploration

Remark File: NIL

6	Lateral exploration status for the lease area-G2	65.657	Nil	NA	No Violation
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Remark: NIL

Remark File: NIL

7	Lateral exploration status for the lease area-G3	1.152	Nil	NA	No Violation
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Remark: NIL

Remark File: NIL

8	Lateral exploration status for the lease area-G4	Nil	Nil	0.000	No Violation
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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 on 31.08.2020, Mineral Reserve (121): 2,293,489 tonnes, Mineral Resource 286,308 tonnes (221) and 467,348 tonnes (333). Total Reserve + Resource 3047145 tonnes	As on 31.03.2025, Mineral Reserve was 1,762,839t (121) & Mineral Resource was 286,308 tonnes (221) and 467,348 tonnes (333). Total Reserve + Resource 2516495 tonnes.	NA	No Violation
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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 - 640S - 1076S / 137E - 350E (Direction of advancement towards W and S direction) Cross Section - X5Y5, X6Y6, X7Y7 & X8Y8	Broadly within the proposed area	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of overburden generation in m3	49414	76996	-27582.000	Rule 11(1)
Remark: The quantity of generated overburden is ~56% higher than the proposed quantity whereas ROM generated is 3.4% less than the quantity proposed. Remark File: NIL					
3	Quantity of topsoil generation in m3	1324	1106	218.000	No Violation
Remark: NIL Remark File: NIL					
4	Stripping ratio : ore to OB ratio	1:0.35	1: 0.56	NA	No Violation
Remark: Overburden generated during the year is higher than the quantity proposed. Remark File: NIL					

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	One (Quarry 2)	One (Quarry 2)	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of ROM mineral production proposed (in T)	142141	137261	4880.00	No Violation
Remark: ROM generated broadly matches the quantity proposed. Remark File: NIL					
3	Recovery of salable/usable mineral quantity from ROM production in T)	8031	3742.0	4289.00	Rule 11(1)
Remark: The saleable mineral recovery from ROM is 53% lower than proposed, although the ROM generated broadly matches the proposed quantity. Remark File: NIL					
4	Quantity of mineral reject/Sub-grade generation	3268	6298	-3030.000	No Violation
Remark: MR generation was proposed at 2% of total ROM; however, during FY 2024-25, actual MR generation was approximately 4.6% of the ROM produced. Remark File: NIL					
5	Grade of mineral reject/sub-grade generation as per threshold value declared	For Flaky variety, average grade of mineral reject is 2.3% F.C.	2.14%FC	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 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 6m and bench width 9m	The width and height of benches in overburden and mineral are broadly maintained	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	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of dump material handling	NIL	NIL	NA	No Violation

	Proposed (in Tonne)				n
Remark: NIL Remark File: NIL					
3	Recovery of salable/usable mineral from dump production (in Tonne)	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
4	Production from dump(s) during the year	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
5	Quantity of mineral reject generation	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
6	Grade of mineral reject generation and threshold value declared	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
7	Any analysis or beneficiation study proposed & carried out for mineral reject	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
8	Manual / Mechanized method adopted for dump working	NIL	NIL	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 & tailings is proposed.	Topsoil, OB, Mineral Rejects and Tailings have been dumped separately	NA	No Violation
Remark: NIL Remark File: NIL					
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Topsoil - 935S - 990S and 368E - 430E OB Dump - 360S - 550S and 242E - 380E Subgrade - 290S - 372S and 150E - 228E Tailings 120S-360S and 140E -400E	As per proposal	NA	No Violation
Remark: NIL 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	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					

5	Number of dumps proposed for stabilised	NIL	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	NIL	NIL	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	NA	No Violation
Remark: The existing pit is not mature for backfilling, as the ore/mineral has not been completely exhausted. Remark File: NIL					
2	Year-wise area under backfilling of mined out area	NIL	NIL	NA	No Violation
Remark: The existing pit is not mature for backfilling, as the ore/mineral has not been completely exhausted. Remark File: NIL					
3	Year-wise topsoil generation, Utilization	2020-21 - 2520 m3 2021-22 - 1706 m3 2022-23 - 2015 m3 2023-24 - 2126 m3 2024-25 - 1324 m3	2020-21 - 0 m3 2021-22 - 1500 m3 2022-23 - 2000 m3 2023-24 - 2000 m3 2024-25 - 1106 m3	Nil	No Violation

	and Stored proposal (in m3)	Total: 9691 m3	Total: 6606 m3 Dumped: 6106 m3 Utilized for Planting: 500 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	NA	No Violation
Remark: NIL Remark File: NIL					
5	Locations of proposed reclamation & rehabilitated	NIL	NIL	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. Total 0.25Ha.area and 625 nos. of plantation proposed.	Total 0.34Ha.area and 650 nos. of plantation carried out.	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	625Nos. 0.25Ha. Plantation	650Nos. 0.34Ha. Plantation	NA	No Violation
Remark: NIL Remark File: NIL					
4	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone Shall be as per MOEF & CC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone was carried out as per the proposals and parameters are within the limit.	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	ROM ore sorting within lease area	137261 Tons of ROM have been produced in the FY 2024-25. 7330t of subgrade have been blended with ore and utilized in the beneficiation process.	NA	No Violation
Remark: NIL Remark File: NIL					

2	Different grade of mineral sorted out at mines	ROM +3%FC Subgrade 2 - 3%FC	+3%FC and 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 located within the lease area at a distance of 0.5Km from Quarry - 2 where ROM initially shall be processed.	NA	No Violation
Remark: NIL Remark File: NIL					
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	Blending at ROM stage	7330t of subgrade have been blended with ore and utilized in the beneficiation process.	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	Proposed quantity 1324 m3	Topsoil generated is 1106 m3. 500 m3 have been utilized for plantation work for the year 2024-25	NA	No Violation
Remark: NIL Remark File: NIL					
2	Use of overburden, waste rock, rejects and	No such proposal	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	625Nos	650 nos. of plantation with survival rate & 52%	NA	Rule 26(1)
Remark: NIL 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 mounded sprinklers are being 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 prescribed period.	NA	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, as per Rule 55 of MCDR,2017	NA	No Violation
Remark: NIL Remark File: NIL					
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	Appears to be in correct order	Appears to be in correct order	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	NIL	NIL	NIL	No Violation
Remark: NIL Remark File: NIL					
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	-	Production cost: Rs. 39331.00/- per tonne Ex-mine price: Rs. 47036.00 per tonne (for 80% FC) and Rs. 3200.00 per tonne (for 40-<80% FC)	-	No Violation
Remark: Appears to be correct 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	Development - Opencast : Quantity of overburden generation in m3	49414	76996	-27582.000	Rule 11(1)
Remark: The quantity of generated overburden is ~56% higher than the proposed quantity whereas ROM generated is 3.4% less than the quantity proposed. Remark File: NIL					
2	Exploitation - Opencast Mine : Recovery of salable/usable mineral quantity from ROM production in T)	8031	3742.0	4289.00	Rule 11(1)
Remark: The saleable mineral recovery from ROM is 53% lower than proposed, although the ROM generated broadly matches the proposed quantity. Remark File: NIL					
3	Environment : Plantation & Survival rate	625Nos	650 nos. of plantation with survival rate & 52%	NA	Rule 26(1)
Remark: NIL Remark File: NIL					

Final Submitted

Esigned by: POULOMMI MONDAL Date: 13/01/2026 10:21:33 AM
