

# INDIAN BUREAU OF MINES

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

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	28ORI03084	Lease Area (Ha) :	14.937
Forest Area (Ha) :	N/A	Mine Code :	28ORI03084
Registration Number :	IBM/115/2011	Name of lessee :	Antaryami
Address of lessee :	Thikadar Para ,Nuapara, Balangir	Phone of lessee :	06652-232854
Email of lessee :	Nc_nyk@rediffmail.com	Fax Number :	N/A
Village :	Ainlapali	Taluka / Mandal :	Belpara
District :	Balangir	Pincode :	767001
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	2007-03-28	Date of Mining Lease Execution :	2007-03-28
Date of opening in the mine :	2018-06-18		

<b>Nominated Owner Details</b>			
Name of the Nominated Owner :	N/A	Nominated Owner Address:	N/A
Nominated Owner Mobile :	N/A	Nominated Owner Email :	N/A
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	Nil
<b>Mining Engineer Details</b>			
Name of the Mining Engineer :	Subrata Kumar Behera	Qualification of Mining Engineer :	B. TECH
Address of Mining Engineer :	N/A	Phone of Mining Engineer :	N/A
Email of Mining Engineer :	N/A	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2025-08-23		
<b>Geologist Details</b>			
Name of the Geologist :	DIBYENDU PRAKASH MOHANTA	Qualification of Geologist :	M.SC
Address of Geologist :	AT-KAMARMARA,PO- MACHHAGRAH,DIST-KEONJHAR	Phone of Geologist :	N/A
Email of Geologist :	N/A	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2019-02-02		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	Subrata Kumar Behera	Qualification of Mine Manager :	B.tech
Address of Mine Manger :	Kaliahata,Keonjhar	Phone of Mine Manger :	N/A
Email of Mine Manger :	N/A	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	Nil		

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 :	OTHER THAN MECHANISED
Nature of Use :	Non 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 :	DIBYENDU PRAKASH MOHANTA, GEOLOGIST
Designation of the Accompanying Official :	GEOLOGIST
Type of Inspection :	MCDR,STR
Date of Inspection :	10/12/2025
Review year considered for MCDR Inspection :	2024-2025

Final Submitted

**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	No proposal	NIL	NA	No Violation
Remark: 40 boreholes were proposed for FY 2022-23 but could not be drilled due to the lack of surface Right. The lessee has a surface right of area of 4.2490 Ha. Remark File: NIL					
2	Number of DTH Boreholes	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
3	Number of exploratory pits / trial pits	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
4	Number of exploratory Trenches	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
5	Lateral exploration status for the lease area - G1	3.051	Nil	NA	No Violation
Remark: No exploration due to lack of surface right. The lessee has a surface right of 4.2490 Ha area. Remark File: NIL					

6	Lateral exploration status for the lease area-G2	1.887	Nil	NA	No Violation
Remark: NIL Remark File: NIL					
7	Lateral exploration status for the lease area-G3	2.004	Nil	NA	No Violation
Remark: NIL Remark File: NIL					
8	Lateral exploration status for the lease area-G4	Nil	Nil	NA	No Violation
Remark: 5.205Ha area is yet to be explored 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)	Date of estimation: 01.10.2021 111: 87908.40 121: 0 122: 27990.00 Total reserve: 115898.40 211: 2394.00 221: 0 222: 30157.20 331: 0 332: 0 333: 34376.40 334: 0 Total Mineral Resources: 66927.60 Total reserve + resource: 182826.00	Date of estimation: 31.03.2025 111: 75258 121: 0 122: 27990.00 Total reserve: 103248 211: 2394.00 221: 0 222: 30157.20 331: 0 332: 0 333: 34376.40 334: 0 Total Mineral Resources: 66927.60 Total reserve + resource: 170175	NA	No Violation
Remark: NIL Remark File: NIL					

### 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	Quarry-1, WNS 713521E-713718E/2275567N 2275757N	713379E-713372E/2275997N-2275985N	Nil	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of overburden generation in m3	45095.40	4320	40775.400	Rule 11(1)
Remark: Generated overburden is only 9.6% of the quantity proposed for FY 2024-25 Remark File: NIL					
3	Quantity of topsoil generation in m3	18985	0	18985.000	No Violation
Remark: Production activities were carried out near the bottom of the quarry resulting no topsoil generation. Remark File: NIL					
4	Stripping ratio : ore to OB ratio	1:2.85	1:1.54	NA	No Violation
Remark: NIL 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	Quarry-1	Quarry-1	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of ROM mineral production proposed (in T)	9532.80	2810	6722.800	Rule 11(1)
Remark: Generated ROM is 29% of the quantity propose for FY 2024-25. Remark File: NIL					
3	Recovery of salable/usable mineral quantity from ROM production in T)	9532.80	2810	6722.800	No Violation
Remark: Recovery of salable/usable mineral quantity from ROM production is 29% of the quantity propose for FY 2024-25 due to less ROM production. Violation of 11(1) has been issued for the same. Remark File: NIL					
4	Quantity of mineral reject/Sub-grade generation	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
5	Grade of mineral reject/sub-grade generation as per threshold value declared	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM	Mechanized	Mechanized	NA	No Violation
Remark: NIL					

Remark File: NIL					
7	Whether height of benches in Overburden & mineral suitable for method of mining proposed in mining plan	3m height & 4m wide bench	Broadly as per proposal	NA	No Violation
Remark: NIL Remark File: NIL					
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NIL	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	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of dump material handling Proposed (in Tonne)	No proposal for dump working	NA	NA	No Violation

Remark: NIL Remark File: NIL					
3	Recovery of salable/usable mineral from dump production (in Tonne)	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
4	Production from dump(s) during the year	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
5	Quantity of mineral reject generation	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
6	Grade of mineral reject generation and threshold value declared	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
7	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal for dump working	NA	NA	No Violation
Remark: NIL Remark File: NIL					
8	Manual / Mechanized method adopted for dump working	No proposal for dump working	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 and OB were proposed	OB is dumped at earmarked area as per proposal. No topsoil is generated in FY 2024-25	NA	No Violation
Remark: NIL Remark File: NIL					
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	OB/Waste dump location: Dump 2: 713569E-713678E 2275477N-2275513N	Broadly as per proposal	NA	No Violation
Remark: Broadly within the proposed area Remark File: NIL					
3	Number of active & Inative dumps	02 (Dump 2 is active)	02	NA	No Violation
Remark: NIL Remark File: NIL					
4	Number of dead dumps	NIL	NA	NA	No Violation
Remark: NIL Remark File: NIL					
5	Number of dumps	NIL	NA	NA	No

	proposed for stabilised				Violation
Remark: NIL Remark File: NIL					
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	NIL	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	No proposal	NIL	NA	No Violation
Remark: The lease is not matured enough for backfilling Remark File: NIL					
2	Year-wise area under backfilling of mined out area	No proposal	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
3	Year-wise topsoil generation, Utilization	Utilization of 15000m3 of topsoil for plantation	No topsoil generation	NA	No Violation

	and Stored proposal (in m3)				n
Remark: Production activities were carried out near the bottom of the quarry resulting no topsoil generation. Remark File: NIL					
4	Total area fully reclaimed & rehabilitated	No proposal	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
5	Locations of proposed reclamation & rehabilitated	No proposal	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.	Nil Area: 0.141Ha No. of plantation: 350	Nil Area: 0.141Ha No. of plantation: 200	NA	No Violation
Remark: Location: 713300E-2275480N 713329E-2275639N 713667E-2275468N 713682E-2275490N Remark File: NIL					

2	Rehabilitation by making water reservoir	NIL	NIL	NA	No 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	I.350 II.0.141Ha III.Plantation	I.200 II.0.141Ha III.Plantation	NA	Rule 26(2)
Remark: The number of plantations reported was less than proposed. Remark File: NIL					
4	Compliance of Environmental monitoring (core zone & buffer zone)	Air, water and Noise monitoring is proposed both in core and buffer zone	Air, water and Noise monitoring has been carried out both in core and buffer zone	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	Saleable Ore : +7 % F.C. 9532.80 tonne of ROM was proposed for dispatched	Saleable Ore : +7 % F.C. 2810 tonne of ROM has been dispatched	NA	No Violation

Remark: Mineral Reject grade varying from 2-7 % F.C. are being blended with +7 % FC grade and dispatched to the plant for processing.

Remark File: NIL					
2	Different grade of mineral sorted out at mines	No proposal	NA	NA	No Violation
Remark: No proposal for mineral reject generation Remark File: NIL					
3	Any beneficiation process at mines	No proposal	NA	NA	No Violation
Remark: No proposal for mineral reject generation Remark File: NIL					
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	No proposal	NA	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	Utilization of 15000 m3 out of 18985m3 of topsoil for plantation	No topsoil generation	NA	No Violation
Remark: Production activities carried out near the bottom of the quarry resulting no topsoil generation. Remark File: NIL					

2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	NA	No Violation
Remark: NIL Remark File: NIL					
4	Plantation & Survival rate	About 350 nos of saplings over 0.141 Ha. Area were proposed to be planted. Survival rate: 90%	About 200 nos of saplings over 0.141 Ha. Area were proposed to be planted. Survival rate: 50%	NA	Rule 26(2)
Remark: Plantation survival rate is below 70%. The number of plantations reported was less than proposed. Remark File: NIL					
5	Water sprinkling on roads to control airborne dust	One water sprinkler was proposed to control airborne dust.	One water sprinkler was used on road to control airborne dust	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 period or not	Monthly returns and annual return for the reporting year is to be submitted	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	NA	No Violation
Remark: NIL Remark File: NIL					
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Mining Engineer and Geologist to be appointed.	Mining Engineer & Geologist appointed as per provisions of 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))	NIL	Cumulative borehole details at the end of FY 2023-24 and at the beginning of FY 2024-25 are not matching.	NA	Rule 45(7)
Remark: NIL Remark File: NIL					
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NIL	NA	NA	No Violation
Remark: NIL Remark File: NIL					
5	Notices and Returns for the lease area submitted or not where fine applicable	NIL	NA	NA	No Violation
Remark: NIL Remark File: NIL					
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 1244/- Ex-mine price Rs. 1140/-	Found in order	NA	No Violation
Remark: NIL Remark File: NIL					

**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	NA	3	NA	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

Final Submitted

## 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 m <sup>3</sup>	45095.40	4320	40775.400	Rule 11(1)
Remark: Generated overburden is only 9.6% of the quantity proposed for FY 2024-25 Remark File: NIL					
2	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	9532.80	2810	6722.800	Rule 11(1)
Remark: Generated ROM is 29% of the quantity propose for FY 2024-25. Remark File: NIL					
3	Progressive Mine Closure Plan : Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	I.350 II.0.141Ha III.Plantation	I.200 II.0.141Ha III.Plantation	NA	Rule 26(2)
Remark: The number of plantations reported was less than proposed. Remark File: NIL					
4	Environment : Plantation & Survival rate	About 350 nos of saplings over 0.141 Ha. Area were proposed to be planted. Survival rate: 90%	About 200 nos of saplings over 0.141 Ha. Area were proposed to be planted. Survival rate: 50%	NA	Rule 26(2)

Remark: Plantation survival rate is below 70%. The number of plantations reported was less than proposed.

Remark File: NIL

5	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	NIL	Cumulative borehole details at the end of FY 2023-24 and at the beginning of FY 2024-25 are not matching.	NA	Rule 45(7)
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Remark: NIL

Remark File: NIL

Final Submitted

Esigned by: POULOMMI MONDAL  
Date: 06/02/2026 11:54:34 AM