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TEST REPORT

Report No: TE/CI/25/06/00037

Sample ID No:GZ/CI/TE-208/25

Date of Report: 07/07/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 30/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
1.	Colour and Odor	2HU& Agreeable	--	--
2.	Suspended Solids	42.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.6	--	5.5-9.0
5.	Temperature	32.0	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.8	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.4	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	8.0	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	7.9	mg/l	Max. 30
12.	Chemical Oxygen Demand	24.6	mg/l	Max. 250
13.	Arsenic(As)	BDL	mg/l	Max. 0.2
14.	Mercury(Hg)	BDL	mg/l	Max. 0.01
15.	Lead(Pb)	BDL	mg/l	Max. 0.1
16.	Cadmium(Cd)	BDL	mg/l	Max. 2.0
17.	Hexavalent Chromium(Cr +6)	BDL	mg/l	Max. 0.1
18.	Total Chromium (Cr)	BDL	mg/l	Max. 2.0
19.	Copper (Cu)	0.003	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.070	mg/l	Max. 5.0
21.	Selenium(Se)	BDL	mg/l	Max. 0.05
22.	Nickel (Ni)	BDL	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL	mg/l	Max. 0.2
24.	Fluoride(F)	BDL	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	1.8	mg/l	Max. 5.0
26.	Sulphide(S)	BDL	mg/l	Max. 2.0
27.	Phenoile Compounds(C ₆ H ₅ OH)	BDL	mg/l	Max. 1.0
28.	Bio-assay Test	90% survival of fish after 96 hours in 100%effluent	--	90% survival of fish after 96 hours in 100%effluent
29.	Manganese (Mn)	BDL	mg/l	Max. 2.0
30.	Iron (Fe)	0.27	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.3	mg/l	Max. 10

[Analysis protocol:-IS: 3025]

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. Remnant sample will be destroyed after 20 days from the date of receipt of sample.
4. This test report shall not be reproduced wholly or partly and cannot be used as an evidence in the court of law and should not be used in any advertising media without the written permission of M/S GREENZONE ENVIRONMENTAL LABORATORY, Digboi.

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

(Signature)
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

**** End of Report****



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TEST REPORT

Report No: TE/CI/25/06/00021

Sample ID No:GZ/CI/TE-192/25

Date of Report: 25/06/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 16/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	26.5	mg/l	Max 250
03	SS (Suspended Solids)	38.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

(Signature)
Quality Manager
Greenzone, Digboi
Quality manager (Pulakesh Dung)

**** End of Report****

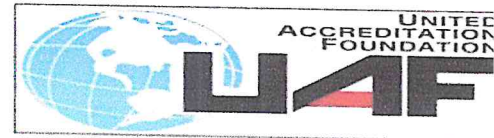


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TEST REPORT

Report No: TE/CI/25/06/00005

Sample ID No:GZ/CI/TE-176/25

Date of Report: 09/06/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 02/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

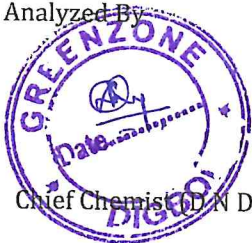
Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	28.2	mg/l	Max 250
03	SS (Suspended Solids)	42.0	mg/l	Max 100
04	Oil & Grease	1.3	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By



Chief Chemist (D. N. D Choudhury)

Reviewed and Authorized By:

PMS
Quality Manager
Greenzone, Digboi

Quality manager (Pulakesh Dung)

**** End of Report****



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TEST REPORT

Report No: TE/CI/25/05/00020

Sample ID No:GZ/CI/TE-160/25

Date of Report: 26/05/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 19/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.9	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	26.3	mg/l	Max 250
03	SS (Suspended Solids)	38.0	mg/l	Max 100
04	Oil & Grease	1.4	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

[Signature]
Quality Manager
Greenzone, Digboi

Quality manager (Pulakesh Dung)

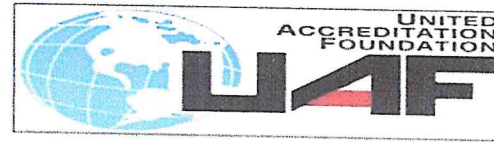
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TEST REPORT

Report No: TE/CI/25/05/00005

Sample ID No:GZ/CI/TE-145/25

Date of Report: 13/05/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 05/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	28.4	mg/l	Max 250
03	SS (Suspended Solids)	43.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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2. Results refer only to the particular parameters tested.
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Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality manager (Pulakesh Dung)

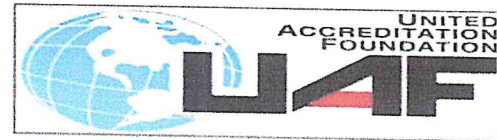
** End of Report**



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TEST REPORT

Report No: TE/CI/25/04/00025

Sample ID No:GZ/CI/TE-127/25

Date of Report: 29/04/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 21/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	25.2	mg/l	Max 250
03	SS (Suspended Solids)	39.0	mg/l	Max 100
04	Oil & Grease	1.4	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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3. Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality manager (Pulakesh Dung)

** End of Report**



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TEST REPORT

Report No: TE/CI/25/04/00005

Sample ID No:GZ/CI/TE-107/25

Date of Report: 16/04/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water	Source: K-drift Drain (Near Agent Office), Tikak Extension OCP	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 07/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	24.5	mg/l	Max 250
03	SS (Suspended Solids)	42.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality manager (Pulakesh Dung)

** End of Report**



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TEST REPORT

Report No: TE/CI/25/06/00038

Sample ID No: GZ/CI/TE-209/25

Date of Report: 07/07/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 30/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
1.	Colour and Odor	4HU& Agreeable	--	--
2.	Suspended Solids	48.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.6	--	5.5-9.0
5.	Temperature	32.0	°C	Shall not exceed 5°C above the receiving water temperature
6.	Oil & Grease	1.5	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.7	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	7.8	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	8.1	mg/l	Max. 30
12.	Chemical Oxygen Demand	32.2	mg/l	Max. 250
13.	Arsenic(As)	BDL	mg/l	Max. 0.2
14.	Mercury(Hg)	BDL	mg/l	Max. 0.01
15.	Lead(Pb)	BDL	mg/l	Max. 0.1
16.	Cadmium(Cd)	BDL	mg/l	Max. 2.0
17.	Hexavalent Chromium(Cr +6)	BDL	mg/l	Max. 0.1
18.	Total Chromium (Cr)	BDL	mg/l	Max. 2.0
19.	Copper (Cu)	0.007	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.078	mg/l	Max. 5.0
21.	Selenium(Se)	BDL	mg/l	Max. 0.05
22.	Nickel (Ni)	BDL	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL	mg/l	Max. 0.2
24.	Fluoride(F)	BDL	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	1.3	mg/l	Max. 5.0
26.	Sulphide(S)	BDL	mg/l	Max. 2.0
27.	Phenoile Compounds(C ₆ H ₅ OH)	BDL	mg/l	Max. 1.0
28.	Bio-assay Test	90% survival of fish after 96 hours in 100%effluent	--	90% survival of fish after 96 hours in 100%effluent
29.	Manganese (Mn)	BDL	mg/l	Max. 2.0
30.	Iron (Fe)	0.26	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.9	mg/l	Max. 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed by:



Chief. Chemist (D N D Choudhury)

Reviewed & Authorized by:

[Signature]
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



M/s. GREENZONE

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TEST REPORT

Report No: TE/CI/25/06/00022

Sample ID No: GZ/CI/TE-193/25

Date of Report: 25/06/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 16/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.8	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34.4	mg/l	Max 250
03	SS (Suspended Solids)	45.0	mg/l	Max 100
04	Oil & Grease	1.3	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed by



Chief Chemist (D. N. D Choudhury)

Reviewed & Authorized by:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

End of Report



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TEST REPORT

Report No: TE/CI/25/06/00006

Sample ID No: GZ/CI/TE-177/25

Date of Report: 09/06/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 02/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	32.6	mg/l	Max 250
03	SS (Suspended Solids)	48.0	mg/l	Max 100
04	Oil & Grease	1.5	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed by:



Chief Chemist (D. N D Choudhury)

Reviewed & Authorized by:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/05/000021

Sample ID No: GZ/CI/TE-161/25

Date of Report: 26/05/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 19/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E), 19.05.1993 & 31.12.1993
01	pH	5.8	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	30.4	mg/l	Max 250
03	SS (Suspended Solids)	46.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed by:



Chief Chemist (D N D Choudhury)

Reviewed & Authorized by:

Pulakesh Dung
Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

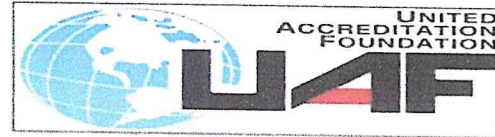
****End of Report****



M/s. GREENZONE

Recognised By
Pollution Control Board, Assam

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TEST REPORT

Report No: TE/CI/25/05/00005A

Sample ID No: GZ/CI/TE-145A/25

Date of Report: 13/05/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 05/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	28.6	mg/l	Max 250
03	SS (Suspended Solids)	44.0	mg/l	Max 100
04	Oil & Grease	1.4	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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2. Results refer only to the particular parameters tested.
3. Remnant sample will be destroyed after 20 days from the date of receipt of sample.
4. This test report shall not be reproduced wholly or partly and cannot be used as an evidence in the court of law and should not be used in any advertising media without the written permission of M/S GREENZONE ENVIRONMENTAL LABORATORY, Digboi.

Analyzed by



Chief Chemist (D N D Choudhury)

Reviewed & Authorized by:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/04/00026

Sample ID No: GZ/CI/TE-128/25

Date of Report: 29/04/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 21/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	42.4	mg/l	Max 250
03	SS (Suspended Solids)	62.0	mg/l	Max 100
04	Oil & Grease	1.3	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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2. Results refer only to the particular parameters tested.
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Analyzed by



Chief. Chemist (D.N.D Choudhury)

Reviewed & Authorized by:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/04/00006

Sample ID No: GZ/CI/TE-108/25

Date of Report: 16/04/2025

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Ledo Pani Nallah (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 07/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34.4	mg/l	Max 250
03	SS (Suspended Solids)	48.0	mg/l	Max 100
04	Oil & Grease	1.4	mg/l	Max 10

[Analysis protocol:-IS: 3025]

NOTE:

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2. Results refer only to the particular parameters tested.
3. Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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Analyzed by



Chief Chemist (D N D Choudhury)

Reviewed & Authorized by:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

End of Report



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TEST REPORT

Report No: TE/CI/25/06/00039

Sample ID No: GZ/CI/TE-210/25

Date of Report: 07/07/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 30/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

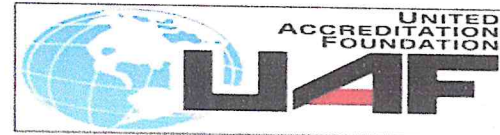
Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E), 19.05.1993 & 31.12.1993
1.	Colour and Odor	3HU & Agreeable	--	--
2.	Suspended Solids	26.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.7	--	5.5-9.0
5.	Temperature	32	°C	Shall not exceed 5°C above the receiving water temperature
6.	Oil & Grease	1.2	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.9	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	10.4	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	6.1	mg/l	Max. 30
12.	Chemical Oxygen Demand	21.6	mg/l	Max. 250
13.	Arsenic(As)	BDL	mg/l	Max. 0.2
14.	Mercury(Hg)	BDL	mg/l	Max. 0.01
15.	Lead(Pb)	BDL	mg/l	Max. 0.1
16.	Cadmium(Cd)	BDL	mg/l	Max. 2.0
17.	Hexavalent Chromium(Cr ⁺⁶)	BDL	mg/l	Max. 0.1
18.	Total Chromium (Cr)	BDL	mg/l	Max. 2.0
19.	Copper (Cu)	0.004	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.073	mg/l	Max. 5.0
21.	Selenium(Se)	BDL	mg/l	Max. 0.05
22.	Nickel (Ni)	BDL	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL	mg/l	Max. 0.2
24.	Fluoride(F)	BDL	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	1.1	mg/l	Max. 5.0
26.	Sulphide(S)	BDL	mg/l	Max. 2.0
27.	Phenoile Compounds(C ₆ H ₅ OH)	BDL	mg/l	Max. 1.0
28.	Bio-assay Test	90% survival of fish after 96 hours in 100%effluent	--	90% survival of fish after 96 hours in 100%effluent
29.	Manganese (Mn)	BDL	mg/l	Max. 2.0
30.	Iron (Fe)	0.27	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.2	mg/l	Max. 10

BDL -Below Detectable Limit
[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By:



Chief Chemist (D. N. D Choudhury)

Reviewed & Authorized By:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/06/00023

Date of Report: 25/06/2025

Sample ID No: GZ/CI/TE-194/25

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 16/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	28.0	mg/l	100
2	pH	6.6	--	5.5-9.0
3	Oil & Grease	1.1	mg/l	Max. 10
4	Chemical Oxygen Demand	16.4	mg/l	Max. 250

[Analysis protocol:-IS: 3025]


NOTE:

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2. Results refer only to the particular parameters tested.
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Analyzed By:

 Date:
 Chief Chemist (D N D Choudhury)

Reviewed & Authorized By:


 Quality Manager
 Greenzone, Digboi
 Quality Manager (Pulakesh Dung)

****End of Report****



M/s. GREENZONE

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TEST REPORT

Report No: TE/CI/25/06/00007

Date of Report: 09/06/2025

Sample ID No: GZ/CI/TE-178/25

Contract No-GEMC-511687720964763,Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 02/06/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	32.0	mg/l	100
2	pH	6.7	--	5.5-9.0
3	Oil & Grease	1.3	mg/l	Max. 10
4	Chemical Oxygen Demand	18.8	mg/l	Max. 250

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed & Authorized By:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

End of Report



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TEST REPORT

Report No: TE/CI/25/05/00022

Sample ID No: GZ/CI/TE-162/25

Date of Report: 26/05/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 19/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	36.0	mg/l	100
2	pH	6.9	--	5.5-9.0
3	Oil & Grease	1.1	mg/l	Max. 10
4	Chemical Oxygen Demand	20.8	mg/l	Max. 250

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By:



Chief Chemist (B.N.D Choudhury)

Reviewed & Authorized By:

(Signature)
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

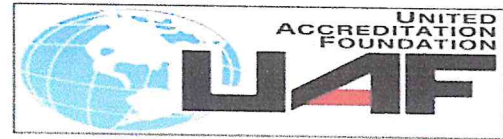
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TEST REPORT

Report No: TE/CI/25/05/00006

Sample ID No: GZ/CI/TE-146/25

Date of Report: 13/05/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 05/05/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	32.0	mg/l	100
2	pH	6.7	--	5.5-9.0
3	Oil & Grease	1.2	mg/l	Max. 10
4	Chemical Oxygen Demand	16.6	mg/l	Max. 250

[Analysis protocol:-IS: 3025]

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed & Authorized By:

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/04/00027

Sample ID No: GZ/CI/TE-129/25

Date of Report: 29/04/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 21/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

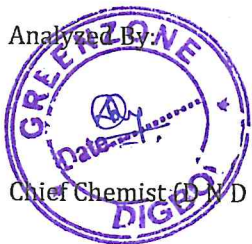
Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	34.0	mg/l	100
2	pH	6.6	--	5.5-9.0
3	Oil & Grease	1.4	mg/l	Max. 10
4	Chemical Oxygen Demand	18.8	mg/l	Max. 250

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By:



Chief Chemist (D. N. D Choudhury)

Reviewed & Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

****End of Report****



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TEST REPORT

Report No: TE/CI/25/04/00007

Sample ID No: GZ/CI/TE-109/25

Date of Report: 16/04/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Debupom Baruah, Greenzone		
Sample Collection Particulars	Start Date 07/04/2025	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422 (E).19.05.1993 & 31.12.1993
1	Suspended Solids	32.0	mg/l	100
2	pH	6.8	--	5.5-9.0
3	Oil & Grease	1.2	mg/l	Max. 10
4	Chemical Oxygen Demand	22.6	mg/l	Max. 250

[Analysis protocol:-IS: 3025]

NOTE:

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Analyzed By:



Chief Chemist (D. N. D Choudhury)

Reviewed & Authorized By:

[Signature]
Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

****End of Report****

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Report No: DW/CI/25/04/00001

Sample ID No: GZ/CI/DW-08/25

Date of Report: 24/04/2025

Contract No-GEMC-511687720964763, Dated-08.07.2024

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Tubewell Water of Samukjan Village (Tikak Extension OCP)
Sample collected by	Debupom Baruah, Greenzone	
Sample Collection Particulars	Date - 15/04/2025	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Acceptable Limit	*Permissible limit in the absence of Alternate Source	Method of Test
01	Free Residual Chlorine	BDL	mg/l, Max	0.2	1	IS:3025, Part 26
02	Colour (Hazen Units)	1 HU	Hazen Units	5	5	IS:3025, Part 4
03	Odour	Agreeable	--	Agreeable	Agreeable	IS:3025, Part 5
04	Turbidity, NTU	0.6 NTU	NTU	1	5	IS:3025, Part 10
05	pH	6.8	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
06	Total Hardness (as CaCO ₃),	74.0	mg/l, Max	200	600	IS:3025, Part 21
07	Alkalinity (as CaCO ₃)	22.0	mg/l, Max	200	600	IS:3025, Part 23
08	Iron (as Fe)	0.27	mg/l, Max	0.3	No Relaxation	IS:3025, Part 53
09	Chlorides (as Cl)	11.0	mg/l, Max	250	1000	IS:3025, Part 32
10	Dissolved Solids	192.0	mg/l, Max	500	2000	IS:3025, Part 16
11	Calcium (as Ca)	20.0	mg/l, Max	75	200	IS:3025, Part 40
12	Magnesium (as Mg)	5.8	mg/l, Max	30	100	IS:3025, Part 46
13	Sulphate (as SO ₄)	14.0	mg/l, Max	200	400	IS:3025, Part 24
14	Nitrate (as NO ₃)	1.1	mg/l, Max	45	No Relaxation	IS:3025, Part 34
15	Fluoride (as F)	BDL	mg/l, Max	1.0	1.5	IS:3025, Part 60
16	Arsenic (as As)	BDL	mg/l, Max	0.01	0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL	mg/l, Max	0.01	No Relaxation	IS:3025, Part 47
18	Phenoilc Compounds(C ₆ H ₅ OH)	BDL	mg/l, Max	0.001	0.002	IS:3025, Part 43

* BDL : Below Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

NOTE:

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Analyzed By:

Chief Chemist (D N D Choudhury)

Reviewed & Authorized by:

Quality Manager
Quality Manager (Pulakesh Dung)

End of Report