

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI**

M.A. NO. 1027 of 2015 & M.A. NO. 216 of 2015

In

O.A. No. 19 of 2014

IN THE MATTER OF:

DR. KASHMIRA KAKATI

...Applicant

Versus

Union of India &Ors.

...Respondents

INDEX

Sl. No	Particulars	Page Nos
1.	Updated Compliance Report of the Respondent no. 8 i.e Coal India Ltd. along with supporting Affidavit	1-11
2.	<u>ANNEXURE A-1 (Colly.)</u> A copy of the various reports prepared by the M/s GREENZONE, laboratory for the month of January-March/ April, 2024	12-278
3.	<u>ANNEXURE A-2</u> A copy of Abandoned Mine Plan of Baragolai Colliery dated 09.07.2010	279-282
4.	<u>ANNEXURE A-3</u> A copy of Notice of closure dated 24.06.2010	283
5.	<u>ANNEXURE A-4</u> A copy of the Notice of Closure/Abandonment as per Regulation 5 of Coal Mines Regulation 2017 being letter No. 35/TGP/449/Agent (T) dated 24.09.2021	284-286

DATE: 16.07.2024

PLACE: New Delhi

DRAWN AND FILED BY:




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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI

M.A. NO. 1027 of 2015 & M.A. NO. 216 of 2015

In

O.A. No. 19 of 2014

IN THE MATTER OF:

DR. KASHMIRA KAKATI

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...Respondents

UPDATED COMPLIANCE REPORT OF THE RESPONDENT NO. 8

HEREIN

TO,
THE HON'BLE CHAIRMAN AND
THE HON'BLE MEMBERS OF THE
NATIONAL GREEN TRIBUNAL

MOST RESPECTFULLY SHOWETH

1. That the answering Respondent herein is the Respondent No.8 i.e., Coal India Ltd (hereinafter referred to as "the Respondent" or "CIL" or "Coal India" as the context may require). It is submitted that Coal India Limited is the Country's largest state-owned coal mining corporate and contributes to 79% of total domestic coal production and 75% of total coal-based generation. CIL contributes to 55% of total power generation and meets 40% of the primary commercial energy requirements of the country.

2. That the present updated compliance may be read part and parcel of the Reply/ Objections to the Report filed by the Ministry of Environment and Forests and Compliance Report submitted by the Answering Respondent No.8 dated 12.09.2023, and the contents of which has not been repeated herein for the sake of brevity.
3. This Hon'ble Court *vide* its order dated 08.04.2024 had directed the Respondents in the above-caption matter to file its reply/ updated reply/ status report within three weeks as a last opportunity. The present updated compliance report is being filed by the answering Respondent No.8, in compliance of the above-mentioned order of this Hon'ble Court.
4. It is reiterated that the current operating mines of the Respondent No.8 are not located in any Reserve Forest and are located far away from the elephant corridors thereby, having no consequential impact on the elephant population. The nearest mine of Respondent No.8, i.e. Tikak OCP, which is a non-functioning mine, is about 13 km away from nearest Elephant Corridor being, Golai Elephant Corridor. It is pertinent to mention here that no movement or occurrence of elephant habitat has ever been seen near the vicinity of mining areas of Respondent No.8, nor has any man -animal conflict been recorded near the mines of the Respondent No.8. That the same was observed by this Hon'ble Court in its final order and judgment dt. 08.12.2017, wherein the Hon'ble Court had recorded that Applicant herein, has not disputed this statement.

5. That presently, North-Eastern Coalfields, a body under the Respondent No.8 has only one operational mine i.e., Tikak Extension OCP of Tikak Colliery. There are 4 Nos of Settling tanks for settling of coal particles and soil particles carried in the water from coal stock yard. The dosing with soda ash and hydrated lime is done in settling tank to reduce the acidity within permissible limit. It has a mechanized ETP at the discharge point of settling tanks, where discharge from stock yard is treated using Lime, Alum and Bleaching powder, prior to discharge in natural stream. The treated effluent was tested in Pollution Control Board Assam or CPCB or MOEF&CC recognized laboratory, and the water quality is found to conform to permissible limit mentioned in GSR 422 (E) dated 19thMay, 1993 and 31st December 1993 Notification and as amended.

CURRENT UPDATED COMPLIANCES OF THE RESPONDENT NO.8

1. It is submitted at the outset that the discharges are treated with quick lime and soda ash to neutralize the toxic elements in its discharge to the natural drain system. It is submitted that the water which is collected in the collection pits has not undergone any of the treatment procedures that have been detailed in the various affidavits filed by the answering Respondent and is the raw, untreated water which then proceeds to the settling tanks, undergoes necessary chemical treatments, then through the Effluent Treatment Plant and finally the remaining discharge is neutralized with heavy water flow in the natural

drainage system like rivers and nalas during monsoon period due to high natural water to mine discharge volumetric ratio. Moreover, due to the fact that the location of mines in higher altitude, the treated discharge is carried by natural drainage away from the reserve forest to the low-lying plain areas which has no effect on plants and wildlife of the forest areas.

2. That further, M/s GREENZONE, laboratory recognised under by Pollution Control Board, Assam has conducted tests in different sites of Respondent No.8.
3. That M/s GREENZONE, in its Test Report from January to March/ April, 2024, had tested the Effluent Waters, Ambient Air Samples and Ambient Noise Level of different sites in Tikak Colliery and found that all the samples were within the permissible limit mentioned in GSR 422 (E) dated 19thMay, 1993 and 31st December, 1993 Notification and as amended.
4. That the following sites were also tested by the M/s Greenzone Laboratory: -
 - i. Water, Air and Noise samples from Tipong Colliery
 - ii. Water, Air and Noise samples from Tirap OCP
 - iii. Water, Air and Noise samples from Ledo OCP
 - iv. Water, Air and Noise samples from Baragolai Colliery
 - v. Water, Air and Noise samples from Railway Siding Tirap Colliery

- vi. Water, Air and Noise samples from Railway Siding Tikak Colliery

A copy of the various reports prepared by the M/s GREENZONE Laboratory is marked herewith as “**ANNEXURE P-1**”

That all these samples were also found to be within the permissible limit mentioned in GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 Notification and as amended.

5. Temperature is an important parameter in the Environmental Standards of Effluent Water for several reasons:

- a) **Aquatic Life:** The temperature of water affects the dissolved oxygen levels, which are crucial for the survival of aquatic organisms. Higher temperatures reduce the solubility of oxygen in water, which can harm or kill aquatic life.
- b) **Chemical Reactions:** Temperature influences the rate of chemical reactions in water. Higher temperatures can accelerate these reactions, potentially leading to increased toxicity of pollutants.
- c) **Thermal Pollution:** Discharge of effluent at higher temperatures can cause thermal pollution, which disrupts the local aquatic ecosystem by altering species composition, increasing metabolic rates of organisms, and causing thermal shock to aquatic life.
- d) **Water Quality:** Temperature affects various physical, chemical, and biological processes in water. It influences the pH, conductivity, and solubility of gases and minerals, which are essential factors for maintaining water quality.

6. Central Pollution Control Board (CPCB) sets specific limits for the temperature of effluent water to mitigate these adverse effects and ensure the protection of water bodies and aquatic. Several types of industries in India are required to regulate the temperature of their effluent to meet environmental standards set by the Central Pollution Control Board (CPCB). These industries includes:

- a) **Thermal Power Plants:** Power plants generate a significant amount of heat during electricity production. Cooling water used in the process is often discharged at higher temperatures, necessitating regulation to prevent thermal pollution.
- b) **Steel and Metal Industries:** These industries use high temperatures in their manufacturing processes, leading to hot effluents that need to be cooled before discharge.
- c) **Chemical and Petrochemical Industries:** The production processes in these industries involve exothermic reactions and high temperatures, resulting in heated wastewater.
- d) **Textile Industry:** Dyeing and finishing processes in the textile industry often involve heated water, which needs to be treated and cooled before being released into the environment.
- e) **Pulp and Paper Industry:** The production of pulp and paper involves the use of hot water and steam, leading to effluents that require temperature regulation.
- f) **Food and Beverage Industry:** Processes like pasteurization and sterilization in the food and beverage industry generate heated effluents that must be managed properly.

g) **Pharmaceutical Industry:** Various processes in the pharmaceutical industry involve high temperatures, resulting in hot effluents that need to be cooled.

In NEC's coal mine there is no process that involves heating of water. Effluent water is generated generally from pumped-out water of mine sumps, washing of mine machinery, and surface runoff from the mine area, therefore temperature regulation is not required in the mines of NEC.

7. It is submitted that the Tirap Colliery mining operations were in non-forest land. That the mining has been in operation since long before the enactment of Environment Protection Act, 1986. That the consent to operate is applied for and issued every year by Pollution Control Board, Assam. The mine is currently non-operational since June, 2020. It is submitted that the discharge of Tirap Colliery, a discontinued mine is passed through settling tanks for settling of coal particles and soil particles and dosing with Soda Ash and Hydrated Lime is done to reduce the acidity within permissible limit. The treated effluent was tested in Pollution Control Board Assam or CPCB or MOEF&CC recognized laboratory, and the water quality is found to conform to permissible limits mentioned in GSR 422 (E) dated 19 May 1933, and 31st December, 1993 Notification and as amended.

8. It is submitted that Ledo OCP is an abandoned mine. The Notice of Closure/ Abandonment as per Regulation 5 of the Coal Regulations 2017 has been submitted to the concerned authorities on 02.11.2022. The final mine closure activities are in progress. (*Annexure A-2/ Page 170-171 of Compliance Report dated 12.09.2023*).
9. It is submitted that Tikak Opencast Project was conceptualized over Baragolai Underground Mine which was started in 1909 and later the area was converted to mining lease by the then Provincial Government of Assam. The area of the project was located in Saleki Proposed Reserve Forest, but the area under reference has now been converted to Government Revenue Land after notification of Saleki Reserve Forest on 05.01.2022 (*Annexure A-3/Pg.172-173 of Compliance Report dated 12.09.2023*) and notified in the Assam Gazette dated 16.12.2022. That the “Description of Boundaries (Schedule B)” mentioned in the afore-mentioned notifications do not include the mines of the Respondent No.8. Thus, it is exempted from the area declared to be a Reserved Forest. Notably, the EC was issued by MOEF&CC in 1995, when the FC Act, 1980 did not apply in Nationalized leases.
10. It is further submitted Tikak OCP mine is presently discontinued and is now a part of a larger Proposed Project i.e Tikak West Expansion OCP. The Project Report for Tikak West Expansion OCP was

approved by the CIL Board in the meeting held on 16.04.2020. After the notification dated 05.01.2022, the land use status of Tikak West Expansion OCP has now been changed and preparation of a revised project report is under progress. The project, Tikak West Expansion OCP has not been implemented/operationalized yet. Statutory clearances including EC and FC have not been obtained yet.

11. It is submitted that the Baragolai Colliery (Underground Mine) is a closed mine. That as per the abandoned mine plan (AMP), the mine work was stopped on 01.11.2008. Thereafter, a notice of closure dated 24.06.2010 was submitted to the concerned authority. It is pertinent to mention herein that as per the 'Guidelines for the Management of Mines Discontinued/Abandoned/ Closed before the year 2009' issued by the Ministry of Coal vide F. No. MPS/02/2022-MPS dated 28.10.2022 (*Annexure P-6/Pg.396-400 of Compliance Report dated 12.09.2023*) a Final Mine Closure Report has been prepared, and the approval of the Final Mine Closure Plan is being obtained.

A copy of Abandoned Mine Plan of Baragolai Colliery dated 09.07.2010 is annexed herewith as **"ANNEXURE P-2"**

A copy of Notice of closure dated 24.06.2010 is annexed herewith as **"ANNEXURE P-3"**

12. It is submitted that Tipong Colliery, an underground mine started in 1924, however, presently, no coal mining is being done and it is an abandoned mine. That the Notice of Closure/Abandonment as per Regulation 5 of Coal Mines Regulation 2017 has been submitted to the concerned authority vide letter No. 35/TGP/449/Agent (T) dated 24.09.2021. Presently, final mine closure activities are in progress for the same.

A copy of the Notice of Closure/Abandonment as per Regulation 5 of Coal Mines Regulation 2017 being letter No. 35/TGP/449/Agent (T) dated 24.09.2021 is annexed herewith as **"ANNEXURE P-4"**

13. That the answering Respondent accordingly seeks to submit that the present Original Application may please be dismissed and appropriate orders may be passed as this Hon'ble Court may deem fit.

DATE: 15.07.2024

PLACE: New Delhi

Through




ISHAAN GEORGE, VISHNU T. MENON & ARCHIT JAIN
Advocates for Respondent No. 8
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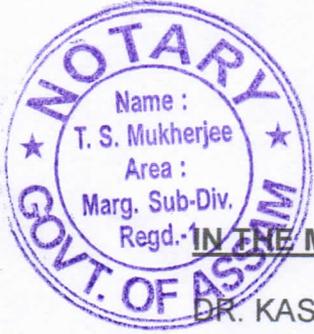
BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH AT NEW DELHI

M.A. NO. 1027 OF 2015 & M.A. NO. 216 OF 2015

IN

O.A NO. 19 OF 2014

SI. No. 4321/24
Date...15.7.24



IN THE MATTER OF:

DR. KASHMIRA KAKATI

...APPLICANT

Versus

UNION OF INDIA & ORS.

...RESPONDENTS

AFFIDAVIT

I, Shri Ketholelhou Mere, General Manager, North Eastern Coalfields, Coal India Limited, Margherita, Assam and authorized signatory of Respondent No.8 herein, do hereby solemnly affirm and state as follows: -

1. That I am the authorized signatory of Respondent No.8 in the aforesaid matter, and I am well acquainted with the facts and circumstances of the case and as such I am competent to swear to this affidavit.
2. I state that I have gone through accompanying the application/ updated compliance report at Pages 1 to 10 filed, which has been drafted by my counsel as per my instruction. I state that all the contents stated therein are true and correct to the best of my knowledge and nothing material has been concealed therefrom.
3. I state that the Annexure P/1 to P/4 at pages 12 to 278 Enclosed with the Application/ updated compliance report are the true copies of the respective originals.

Ketholelhou Mere

DEPONENT

VERIFICATION

I, Shri Ketholelhou Mere, the deponent above named do hereby verify that the contents of the above affidavit are true and correct and believe that no part of it is false and nothing material has been concealed therefrom.

Verified at Margherita on this the 15th July day of, 2024.

Ketholelhou Mere
Signed before me on oath DEPONENT

T. S. Mukherjee

T. S. MUKHERJEE
NOTARY
Margherita Sub-Division
Govt. of Assam



M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

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ANNEXURE A-1
1909



12

TIKAK EXTENSION
JAN to APRIL 2024

AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: TE/24/01/00007

Sample ID No: GZ/TE-308/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak Extension OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	41.0	mg/l	Max 250
03	SS (Suspended Solids)	53.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

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.

** End of Report**

AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: AN/24/01/00005
Sample ID No: GZ/AN-216/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	73	66	70.32	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	69	64	67.22	70

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Authorized Signatory:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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.

**** End of Report ****



M/s. GREENZONE

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Pollution Control Board, Assam



AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: AN/24/01/00003
Sample ID No: GZ/AN-214/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

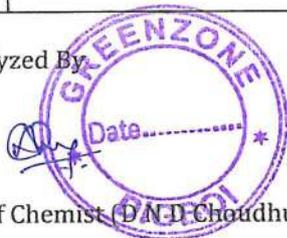
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	74	65	70.19	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	68	63	66.22	70

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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.

**** End of Report ****



M/s. GREENZONE

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TEST REPORT

Report No: AN/24/01/00004

Sample ID No: GZ/AN-215/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extention OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak Extention OCP)	54	45	51.09	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak Extention OCP)	46	36	42.01	45

Analyzed By

Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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.

** End of Report **



M/s. GREENZONE

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TEST REPORT

Report No: AN/24/01/00006

Sample ID No: GZ/AN-217/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	54	46	51.32	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	44	36	41.77	45

Analyzed By

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

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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.

** End of Report **



M/s. GREENZONE

Recognised By
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AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No:AN/24/01/00007

Sample ID No: GZ/AN-218/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	53	47	50.55	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	43	36	40.32	45

Analyzed By

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

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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.

**** End of Report****



M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

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AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: TE/24/01/00005

Sample ID No: GZ/TE-306/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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)	31.0	mg/l	Max 250
03	SS (Suspended Solids)	38.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

Technical Manager
Greenzone, Digboi
Technical Manager (Pratim Hazarika)

NOTE:

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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.

**** End of Report****





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TEST REPORT

Report No: TE/24/01/00006

Sample ID No: GZ/TE-307/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	29.0	mg/l	Max 250
03	SS (Suspended Solids)	47.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:


Quality Manager
 Greenzone, Digboi
 Quality Manager (Pulakesh Dung)


Technical Manager
 Greenzone, Digboi
 Technical Manager (Priyanka Hazarika)

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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**** End of Report ****

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TEST REPORT

Report No: DW/24/01/00022

Sample ID No: GZ/DW-192/24

Date of Report: 05/02/2024

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Tube Well Water of Samukjan Village (Tikak Extension OCP)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 22/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	1	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	6.7	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	39.7	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.16	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	5.5	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	155.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	22.6	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	16.0	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	2.6	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.5	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	16.0	mg/l	Max 200	Max 600	IS:3025, Part 23

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By

 **Quality Manager**
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

 **Technical Manager**
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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.
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End of Report

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TEST REPORT

Report No: AAQ/24/01/00033

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-210/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Kolpara Gaon, Near Panchayat office (Tikak extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 22/01/2024	End Date 23/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.15	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	42.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	23.55	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By  Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:  Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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End of Report

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TEST REPORT

Report No: AAQ/24/01/00034

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-211/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Mine Area(Near Workshop) (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 22/01/2024	End Date 23/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	19.35	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	53.24	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	23.66	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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End of Report

TEST REPORT

Report No: AAQ/24/01/00035

Date of Report: 05/02/2024

Sample ID No: GZ/AAQ-212/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Malugaon No. 2 (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 23/01/2024	End Date 24/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.45	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	51.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.57	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit ,*MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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****End of Report****

TEST REPORT

Report No: AAQ/24/01/00036

Date of Report: 05/02/2024

Sample ID No: GZ/AAQ-213/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 23/01/2024	End Date 24/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.45	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	48.75	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.85	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

 Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

 Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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****End of Report****



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TEST REPORT

Report No: TE/24/01/00025
Sample ID No: GZ/TE-326/24

Date of Report: 07/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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)	36.0	mg/l	Max 250
03	SS (Suspended Solids)	32.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D.N. Choudhury)

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report****

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TEST REPORT

Report No: TE/24/01/00026

Date of Report: 07/02/2024

Sample ID No: GZ/TE-327/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	32.0	mg/l	Max 250
03	SS (Suspended Solids)	41.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N Choudhury)



Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report ****



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TEST REPORT

Report No: AN/24/01/00018
Sample ID No: GZ/AN-229/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	52	42	50.75	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	47	34	41.45	45

Analyzed By



Chief Chemist (B.N. Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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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TEST REPORT

Report No: AN/24/01/00019
Sample ID No: GZ/AN-230/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	72	67	69.75	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	69	62	66.54	70

Analyzed By



Chief Chemist (D.N.Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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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****End of Report ****



M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

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TEST REPORT

Report No: AN/24/01/00020
Sample ID No: GZ/AN-231/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	53	44	50.25	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	43	35	40.55	45

Analyzed By



Chief Chemist (D. N. Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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.

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TEST REPORT

Report No:AN/24/01/00021

Sample ID No: GZ/AN-232/24

Date of Report: 08/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	54	44	49.75	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	44	33	39.65	45

Analyzed By



Chief Chemist (D. N. Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

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.

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TEST REPORT

Report No: TE/24/01/00027

Date of Report: 07/02/2024

Sample ID No: GZ/TE-328/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

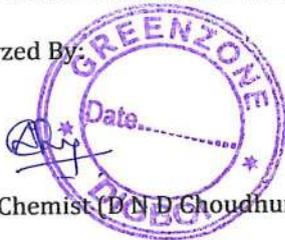
Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak Extension OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	35.0	mg/l	Max 250
03	SS (Suspended Solids)	26.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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.
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1930



33

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TEST REPORT

Report No: AN/24/02/00006
Sample ID No: GZ/AN-242/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

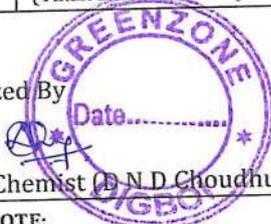
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	53	45	49.56	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	43	33	38.4	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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.
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1931



34

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TEST REPORT

Report No: AN/24/02/00005
Sample ID No: GZ/AN-241/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	74	67	71.5	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	69	63	66.79	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

*Technical Manager
Greenzone, Digboi*

Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: TE/24/02/00007

Date of Report: 24/02/2024

Sample ID No: GZ/TE-346/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

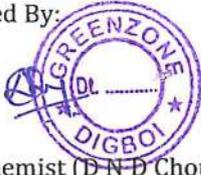
Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of ETP (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	38	mg/l	Max 250
03	SS (Suspended Solids)	29	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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TEST REPORT

Report No: TE/24/02/00005

Date of Report: 24/02/2024

Sample ID No: GZ/TE-344/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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)	32.0	mg/l	Max 250
03	SS (Suspended Solids)	39.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00006

Date of Report: 24/02/2024

Sample ID No: GZ/TE-345/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	36.0	mg/l	Max 250
03	SS (Suspended Solids)	45.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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1935



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TEST REPORT

Report No: AN/24/02/00004
Sample ID No: GZ/AN-240/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	44	52.3	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	44	37	41.6	45

Analyzed By



Chief Chemist (D N-D Choudhury)

Reviewed and Authorized By:

Protim
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No:AN/24/02/00007

Sample ID No: GZ/AN-243/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	54	46	49.6	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	44	34	39.5	45

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:



Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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**** End of Report****

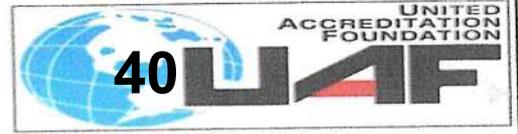


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1937



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TEST REPORT

Report No: AN/24/02/00018
Sample ID No: GZ/AN-254/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

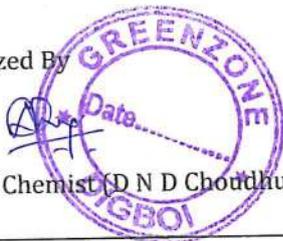
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	53	44	50.2	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	43	32	38.41	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: AN/24/02/00016
Sample ID No: GZ/AN-252/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

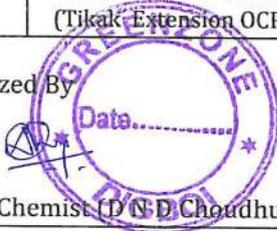
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	73	66	70.15	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	69	62	65.8	70

Analyzed By



Chief Chemist (D. D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: AN/24/02/00017

Sample ID No: GZ/AN-253/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

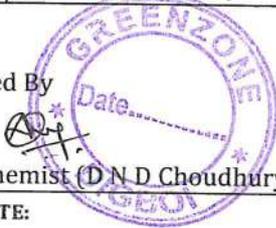
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	54	44	50.6	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	44	36	39.4	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: TE/24/02/00023

Date of Report: 07/03/2024

Sample ID No: GZ/TE-362/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

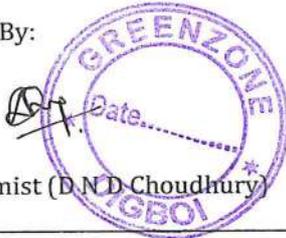
Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak Extension OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34	mg/l	Max 250
03	SS (Suspended Solids)	27	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report****



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TEST REPORT

Report No: TE/24/02/00021

Date of Report: 07/03/2024

Sample ID No: GZ/TE-360/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	37.0	mg/l	Max 250
03	SS (Suspended Solids)	35.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: TE/24/02/00022

Date of Report: 07/03/2024

Sample ID No: GZ/TE-361/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	38.0	mg/l	Max 250
03	SS (Suspended Solids)	41.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Signature and stamp of Technical Manager

Technical Manager(Protim Hazarika)

NOTE:

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1943



46

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TEST REPORT

Report No: AN/24/03/00020
Sample ID No: GZ/AN-278/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon, Near Panchayat Office (Tikak extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

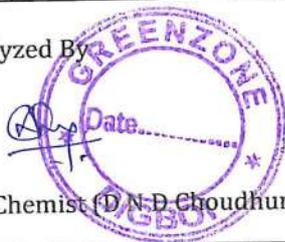
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon, Near Panchayat Office (Tikak OCP)	54	46	50.80	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon, Near Panchayat Office (Tikak OCP)	43	37	40.55	45

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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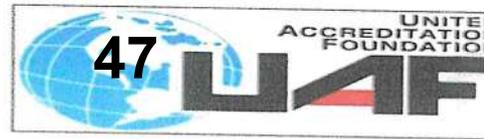
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TEST REPORT

Report No: AN/24/02/00015
Sample ID No: GZ/AN-251/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	54	45	51.8	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	43	36	40.15	45

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No:AN/24/03/00023
Sample ID No: GZ/AN-281/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

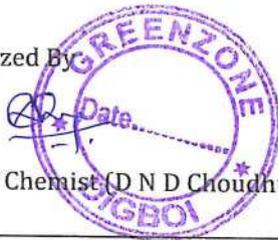
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	53	43	48.56	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	43	30	37.37	45

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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1946



49

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TEST REPORT

Report No: AN/24/03/00021
Sample ID No: GZ/AN-279/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	74	66	70.80	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	69	62	65.93	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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TEST REPORT

Report No: AN/24/04/00004
Sample ID No: GZ/AN-292/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	45	49.95	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	43	36	40.15	45

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No:AN/24/04/00007

Sample ID No: GZ/AN-295/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	54	42	48.66	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	44	31	38.60	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

✓
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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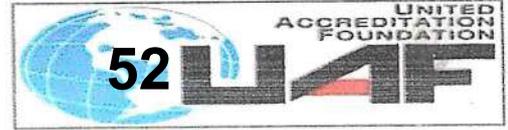
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1949



52

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TEST REPORT

Report No: TE/24/03/00033
Sample ID No: GZ/TE-404/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak Extension OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	6.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	38	mg/l	Max 250
03	SS (Suspended Solids)	30	mg/l	Max 100
04	Oil & Grease	1.1	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D.N.V. Choudhary)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00031
Sample ID No: GZ/TE-402/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	44.0	mg/l	Max 250
03	SS (Suspended Solids)	78.0	mg/l	Max 100
04	Oil & Grease	1.2	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

[Signature]
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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1951



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TEST REPORT

Report No: TE/24/03/00032
Sample ID No: GZ/TE-403/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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)	38.0	mg/l	Max 250
03	SS (Suspended Solids)	52.0	mg/l	Max 100
04	Oil & Grease	1.1	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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55

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TEST REPORT

Report No: AN/24/03/00022
Sample ID No: GZ/AN-280/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	54	43	49.00	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	43	32	38.14	45

Analyzed By

Date

[Signature]

Chief Chemist (D N B Choudhury)

Reviewed and Authorized By:

[Signature] Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

- Results reported are valid at the time of and under the prevailing conditions of measurement.
- Results refer only to the particular parameters tested.
- Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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** End of Report **

TEST REPORT

Report No: AAQ/24/03/00007
Sample ID No: GZ/AAQ-232/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Kolpara Gaon, Near Panchayat Office (Tikak Extension ocp)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 08/03/2024	End Date 09/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.32	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	44.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.12	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , * MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard
Remarks: Nil

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone Digboi
Technical Manager (Protim Hazarika)

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.

End of Report

TEST REPORT

Report No: AAQ/24/03/00008

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-233/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Mine Area (Near Workshop) (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 08/03/2024	End Date 09/03/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.35	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	51.45	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	9.85	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.54	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



Technical Manager (Protim Hazarika)

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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End of Report

TEST REPORT

Report No: AAQ/24/03/00010

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-235/23

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 09/03/2024	End Date 10/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.30	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	44.54	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.2	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.6	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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End of Report

TEST REPORT

Report No: AAQ/24/03/00009

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-234/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Malugaon No. 2 (Tikak Extension OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 09/03/2024	End Date 10/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

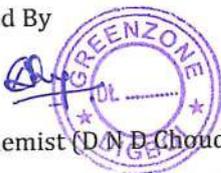
Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	19.80	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	43.25	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	9.85	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	23.54	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL:0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL:0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL:0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL:0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL:0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit, *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: TE/24/03/00009

Date of Report: 23/03/2024

Sample ID No: GZ/TE-380/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain(Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	36.0	mg/l	Max 250
03	SS (Suspended Solids)	45.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D.N.B.Choudhury)

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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**** End of Report****





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61

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TEST REPORT

Report No: TE/24/03/00010

Date of Report: 23/03/2024

Sample ID No: GZ/TE-381/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	39.0	mg/l	Max 250
03	SS (Suspended Solids)	41.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00011

Date of Report: 23/03/2024

Sample ID No: GZ/TE-382/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak Extension OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34	mg/l	Max 250
03	SS (Suspended Solids)	27	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Technical Manager
Greenzone, Digboi
Technical Manager (Pratim Hazarika)

NOTE:

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63

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TEST REPORT

Report No:AN/24/03/00008

Sample ID No: GZ/AN-266/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Residential Colony of Tikak Colliery (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	52	45	48.6	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Residential Colony of Tikak Colliery(Tikak Extension OCP)	44	31	37.6	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pratima Hazarika
Technical Manager
Technical Manager (Pratima Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00007
Sample ID No: GZ/AN-265/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

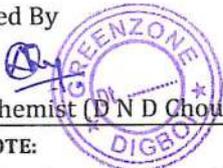
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	53	45	51.2	55

(Night Time)

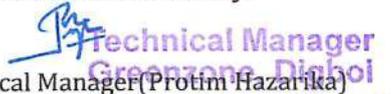
Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	42	33	40.6	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



Technical Manager (Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report ****



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TEST REPORT

Report No: AN/24/03/00006

Sample ID No: GZ/AN-264/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	74	67	71.4	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	68	63	66.7	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Prati
**Technical Manager
Greenzone Digboi**

Technical Manager(Protim Hazarika)

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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66

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TEST REPORT

Report No: AN/24/03/00005

Sample ID No: GZ/AN-263/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	47	50.2	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	44	38	42.3	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

- Results reported are valid at the time of and under the prevailing conditions of measurement.
- Results refer only to the particular parameters tested.
- Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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**** End of Report ****



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67

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TEST REPORT

Report No: AN/24/04/00005

Sample ID No: GZ/AN-293/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area(Near Workshop) (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	74	67	71.41	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area(Near Workshop) (Tikak Extension OCP)	68	61	64.93	70

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

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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M/s. GREENZONE

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TEST REPORT

Report No: AN/24/04/00006
Sample ID No: GZ/AN-294/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Malugaon No.2 (Tikak Extension OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	53	44	49.03	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Malugaon No.2 (Tikak Extension OCP)	42	31	37.31	45

Analyzed By

Date.....*



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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.
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** End of Report **



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TEST REPORT

Report No: TE/24/04/00006
Sample ID No: GZ/TE-421/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

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	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	48	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.8	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.3	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	1.3	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	5.4	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	9.8	mg/l	Max. 30
12.	Chemical Oxygen Demand	40.0	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)	0.002	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.146	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)	0.6	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)	0.34	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.6	mg/l	Max. 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/04/00005

Sample ID No: GZ/TE-420/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: K-Drift Drain (Near Agent Office) (Tikak Extension OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

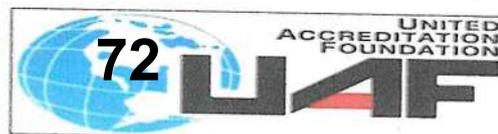
Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 &31.12.1993
1.	Colour and Odor	3HU& Agreeable	--	--
2.	Suspended Solids	74	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.2	--	5.5-9.0
5.	Temperature	24 <2%ofAmbient Temperature	°C	Shall not exceed 5°C above the receiving water temperature
6.	Oil & Grease	1.3	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	1.1	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	5.2	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	10.4	mg/l	Max. 30
12.	Chemical Oxygen Demand	42.0	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)	0.0182	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)	0.7	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)	0.28	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.8	mg/l	Max. 10

Analyzed By



Chief Chemist (D.N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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**** End of Report ****



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Tikak ocp
JAN to APRIL 2024

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TEST REPORT

Report No: TE/24/01/00007

Sample ID No: GZ/TE-308/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	41.0	mg/l	Max 250
03	SS (Suspended Solids)	53.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report****



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TEST REPORT

Report No: AN/24/01/00001

Sample ID No: GZ/AN-212/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

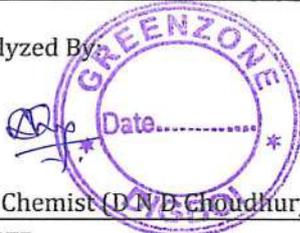
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	73	67	70.55	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	68	63	66.22	70

Analyzed By:



Chief Chemist (D.N.P. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report ****



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TEST REPORT

Report No: AN/24/01/00002
Sample ID No: GZ/AN-213/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	52	44	48.36	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	44	37	40.68	45

Analyzed By:

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi

Technical Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/01/00004
Sample ID No: GZ/AN-215/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	54	45	51.09	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	46	36	42.01	45

Analyzed By

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00001

Date of Report: 27/01/2024

Sample ID No: GZ/TE-302/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Mine Raw Water Before Coal Stock Yard (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	124.0	mg/l	Max 250
03	SS (Suspended Solids)	123.0	mg/l	Max 100
04	Oil & Grease	2.4	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:


Quality Manager
 Greenzone, Digboi
 Quality Manager (Pulakesh Dung)


Technical Manager
 Greenzone, Digboi
 Technical Managera(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00002

Date of Report: 27/01/2024

Sample ID No: GZ/TE-303/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia , Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Near Coal Dump before ETP (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	121.0	mg/l	Max 250
03	SS (Suspended Solids)	119.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:

Quality Manager
 Greenzone, Digboi
 Quality Manager (Pulakesh Dung)

Technical Manager
 Greenzone, Digboi
 Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00003

Date of Report: 27/01/2024

Sample ID No:GZ/TE-304/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

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)	39.0	mg/l	Max 250
03	SS (Suspended Solids)	61.0	mg/l	Max 100
04	Oil & Grease	1.3	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Protim
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00004

Date of Report: 27/01/2024

Sample ID No:GZ/TE-305/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	36.0	mg/l	Max 250
03	SS (Suspended Solids)	62.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:


Quality Manager
 Greenzone, Digboi
 Quality Manager (Pulakesh Dung)


Technical Manager
 Greenzone, Digboi
 Technical Manager(Protim Hazarika)

NOTE:

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** End of Report **

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TEST REPORT

Report No: AAQ/24/01/00029

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-206/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam			
Sample Description	Type: Ambient Air Sample	Source: Mine Area (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 19/01/2024	End Date 20/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.35	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	44.25	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.20	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	26.32	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

[Signature]
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

[Signature]
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00030

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-207/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Namdang Mine (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 19/01/2024	End Date 20/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.65	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	48.75	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	8.95	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	20.35	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00031

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-208/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Coal Dump (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 20/01/2024	End Date 21/01/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.44	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	43.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.35	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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****End of Report****

TEST REPORT

Report No: AAQ/24/01/00032

Date of Report: 03/02/2024

Sample ID No: GZ/AAQ-209/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Namghar (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 20/01/2024	End Date 21/01/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.65	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	52.45	µg /m ³	100 (24 Hours Average)
03	11.25	10.14	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	25.74	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit, * MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00033

Sample ID No: GZ/AAQ-210/24

Date of Report: 03/02/2024

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Kolpara Gaon, Near Panchayat Office (Tikak ocp)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 22/01/2024	End Date 23/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.15	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	42.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	23.55	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

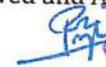
NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

 Quality Manager
Greenzone, Digboi

Reviewed and Authorized By:

 Technical Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Technical Manager(Protim Hazarika)

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TEST REPORT

Report No: DW/24/01/00022

Date of Report: 05/02/2024

Sample ID No: GZ/DW-192/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Tube Well Water of Samukjan Village (Tikak OCP)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 22/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	1	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	6.7	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	39.7	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.16	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	5.5	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	155.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By

Pulakesh Dung
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	22.6	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	16.0	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	2.6	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.5	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	16.0	mg/l	Max 200	Max 600	IS:3025, Part 23

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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TEST REPORT

Report No: TE/24/01/00021
Sample ID No: GZ/TE-322/24

Date of Report: 07/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Mine Raw Water Before Coal Stock Yard (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	115.0	mg/l	Max 250
03	SS (Suspended Solids)	119.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N Choudhury)

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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TEST REPORT

Report No: TE/24/01/00022

Date of Report: 07/02/2024

Sample ID No: GZ/TE-323/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia , Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Near Coal Dump before ETP (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	126.0	mg/l	Max 250
03	SS (Suspended Solids)	128.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

Analyzed By



Chief Chemist (D. N. Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: TE/24/01/00023

Sample ID No: GZ/TE-324/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

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)	42.0	mg/l	Max 250
03	SS (Suspended Solids)	56.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N Choudhury)

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: TE/24/01/00024

Sample ID No: GZ/TE-325/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	39.0	mg/l	Max 250
03	SS (Suspended Solids)	66.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: AN/24/01/00016

Sample ID No: GZ/AN-227/24

Date of Report: 08/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	51	45	47.25	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	45	38	41.35	45

Analyzed By:



Chief Chemist (D.N Choudhury)

Reviewed and Authorized By:



Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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M/s. GREENZONE

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TEST REPORT

Report No: AN/24/01/00017
Sample ID No: GZ/AN-228/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	73	66	71.25	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	71	62	66.45	70

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

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.

**End of Report **



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TEST REPORT

Report No: AN/24/01/00018

Sample ID No: GZ/AN-229/24

Date of Report: 08/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	52	42	50.75	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	47	34	41.45	45

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Lab Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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**** End of Report ****



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TEST REPORT

Report No: TE/24/01/00027

Sample ID No: GZ/TE-328/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	35.0	mg/l	Max 250
03	SS (Suspended Solids)	26.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report****

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TEST REPORT

Report No: AN/24/01/00015
Sample ID No: GZ/AN-226/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

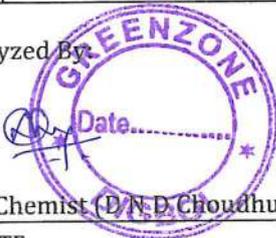
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	74	68	71.8	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	69	64	67.22	70

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00003
Sample ID No: GZ/AN-239/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

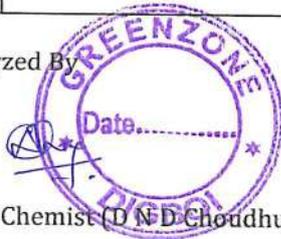
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	74	66	70.56	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	69	64	68.4	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Signature
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00007

Sample ID No: GZ/TE-346/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	38	mg/l	Max 250
03	SS (Suspended Solids)	29	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00001

Date of Report: 24/02/2024

Sample ID No: GZ/TE-340/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Mine Raw Water Before Coal Stock Yard (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	121.0	mg/l	Max 250
03	SS (Suspended Solids)	115.0	mg/l	Max 100
04	Oil & Grease	2.6	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

By
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00002

Sample ID No: GZ/TE-341/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Near Coal Dump before ETP (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	128.0	mg/l	Max 250
03	SS (Suspended Solids)	118.0	mg/l	Max 100
04	Oil & Grease	2.5	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00003

Date of Report: 24/02/2024

Sample ID No:GZ/TE-342/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	44.0	mg/l	Max 250
03	SS (Suspended Solids)	59.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00004

Date of Report: 24/02/2024

Sample ID No:GZ/TE-343/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	43.0	mg/l	Max 250
03	SS (Suspended Solids)	69.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00001
Sample ID No: GZ/AN-237/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	74	67	70.6	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	68	63	66.2	70

Analyzed By:



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By: ✓

Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00002
Sample ID No: GZ/AN-238/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	53	43	46.7	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	44	36	40.4	45

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi.

Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: AN/24/02/00004

Sample ID No: GZ/AN-240/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenszone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	44	52.3	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	44	37	41.6	45

Analyzed By



Chief Chemist (D N D-Choudhury)

Reviewed and Authorized By: ✓

Technical Manager
Greenszone, Digboi
Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: AN/24/02/00013
Sample ID No: GZ/AN-249/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	51	46	47.6	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	44	38	41.55	45

Analyzed By:



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

[Signature]
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: AN/24/02/00015
Sample ID No: GZ/AN-251/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	54	45	51.8	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	43	36	40.15	45

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00012

Sample ID No: GZ/AN-248/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	73	68	69.6	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	69	64	67.5	70

Analyzed By:



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00014

Sample ID No: GZ/AN-250/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	74	67	70.8	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	68	62	67.5	70

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00023

Sample ID No: GZ/TE-362/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34	mg/l	Max 250
03	SS (Suspended Solids)	27	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00017

Sample ID No: GZ/TE-356/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Mine Raw Water Before Coal Stock Yard (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	125.0	mg/l	Max 250
03	SS (Suspended Solids)	104.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

Analyzed By




Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



 Technical Manager
 Greenzone, Digboi
 Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00018
Sample ID No: GZ/TE-357/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Near Coal Dump before ETP (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	118.0	mg/l	Max 250
03	SS (Suspended Solids)	109.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00019

Sample ID No:GZ/TE-358/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	46.0	mg/l	Max 250
03	SS (Suspended Solids)	62.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



 Date.....

Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:


 Technical Manager
 Greenzone, Digboi
 Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00020

Sample ID No:GZ/TE-359/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	48.0	mg/l	Max 250
03	SS (Suspended Solids)	72.0	mg/l	Max 100
04	Oil & Grease	2.5	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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TEST REPORT

Report No: AAQ/24/03/00004

Date of Report: 19/03/2024

Sample ID No: GZ/AAQ-229/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Namdang Mine (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 06/03/2024	End Date 07/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

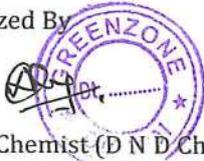
Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.35	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	45.45	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	9.85	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.30	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit, *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/03/00003

Date of Report: 19/03/2024

Sample ID No: GZ/AAQ-228/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Mine Area (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 06/03/2024	End Date 07/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

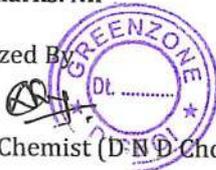
Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.56	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	46.25	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.20	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.32	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/03/00005
Sample ID No: GZ/AAQ-230/24

Date of Report: 19/03/2024
Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Coal Dump (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 07/03/2024	End Date 08/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.65	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	44.26	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	9.75	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.54	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , * MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard
Remarks: Nil

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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End of Report

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TEST REPORT

Report No: AAQ/24/03/00006

Date of Report: 19/03/2024

Sample ID No: GZ/AAQ-231/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Namghar (Tikak OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 07/03/2024	End Date 08/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.65	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	49.54	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	8.75	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	23.57	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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End of Report

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TEST REPORT

Report No: AAQ/24/03/00007

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-232/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Kolpara Gaon, Near Panchayat Office (Tikak ocp)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 08/03/2024	End Date 09/03/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.32	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	44.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.12	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , * MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard
Remarks: Nil

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Pratima Hazarika
Technical Manager

Technical Manager (Pratima Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00005

Sample ID No: GZ/AN-263/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	47	50.2	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	44	38	42.3	45

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Prof
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00003
Sample ID No: GZ/AN-261/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	54	45	47.2	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	43	37	41.3	45

Analyzed By:

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00002

Sample ID No: GZ/AN-260/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	74	69	70.8	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	70	65	68.4	70

Analyzed By:

Reviewed and Authorized By:



Chief Chemist (D.N.D Choudhury)

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00006
Sample ID No: GZ/TE-377/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Near Coal Dump before ETP (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	133.0	mg/l	Max 250
03	SS (Suspended Solids)	112.0	mg/l	Max 100
04	Oil & Grease	2.7	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



Technical Manager (Pratim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00008
Sample ID No:GZ/TE-379/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	40.0	mg/l	Max 250
03	SS (Suspended Solids)	67.0	mg/l	Max 100
04	Oil & Grease	2.6	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Protim Hazarika
Technical Manager
Greenzone, Digboi

Chief Chemist (D N D Choudhury)

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00004

Sample ID No: GZ/AN-262/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	74	65	69.85	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	69	63	68.4	70

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00007

Date of Report: 23/03/2024

Sample ID No:GZ/TE-378/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	41.0	mg/l	Max 250
03	SS (Suspended Solids)	58.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00005

Date of Report: 23/03/2024

Sample ID No: GZ/TE-376/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: Mine Raw Water Before Coal Stock Yard (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	129.0	mg/l	Max 250
03	SS (Suspended Solids)	135.0	mg/l	Max 100
04	Oil & Grease	2.8	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N B Choudhury)

Technical Manager
Greenzone, Digboi
Technical Managera(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00011
Sample ID No: GZ/TE-382/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34	mg/l	Max 250
03	SS (Suspended Solids)	27	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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** End of Report**



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TEST REPORT

Report No: AN/24/03/00020
Sample ID No: GZ/AN-278/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	54	46	50.80	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	43	37	40.55	45

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00019

Sample ID No: GZ/AN-277/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

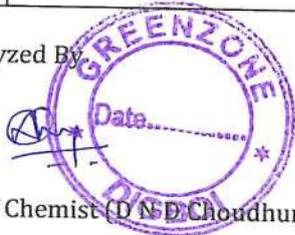
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	74	66	70.80	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	68	64	66.29	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00033

Sample ID No: GZ/TE-404/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Tikak OCP)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	6.7	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	38.0	mg/l	Max 250
03	SS (Suspended Solids)	30.0	mg/l	Max 100
04	Oil & Grease	1.1	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

Chief Chemist (D N D Choudhury)

NOTE:

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TEST REPORT

Report No: TE/24/03/00027

Sample ID No:GZ/TE-400/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

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)	48.0	mg/l	Max 250
03	SS (Suspended Solids)	94.0	mg/l	Max 100
04	Oil & Grease	BDL	mg/l	Max 10

BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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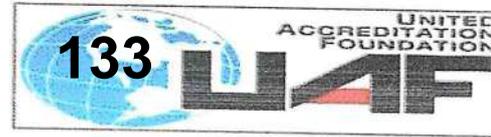
**** End of Report ****



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TEST REPORT

Report No: TE/24/03/00030

Sample ID No:GZ/TE-401/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream Namdang River (Tikak OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	Quantity Drawn : 3 L	Analysis Protocol: IS 3025

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)	60.0	mg/l	Max 250
03	SS (Suspended Solids)	92.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

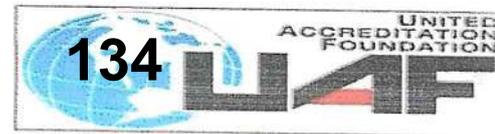
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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TEST REPORT

Report No: AN/24/03/00017
Sample ID No: GZ/AN-275/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	73	70	71.89	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	69	64	67.22	70

Analyzed By:



Chief Chemist (D.N.D/Chandhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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- Results refer only to the particular parameters tested.
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TEST REPORT

Report No: AN/24/03/00018
Sample ID No: GZ/AN-276/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq (dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	53	44	49.88	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq (dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	44	36	41.06	45

Analyzed By:



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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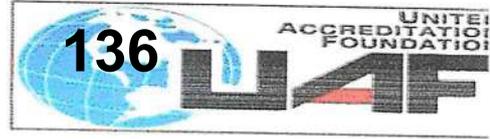


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TEST REPORT

Report No: TE/24/03/00028

Sample ID No: GZ/TE-399/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: Near Coal dump Before ETP (Tikok OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	86.0	mg/l	Max 250
03	SS (Suspended Solids)	118.0	mg/l	Max 100
04	Oil & Grease	2.6	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Proton Nazarika)

NOTE:

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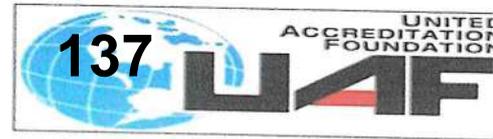
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TEST REPORT

Report No: TE/24/03/00027
Sample ID No: GZ/TE-398/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: Mine Raw water Before Coal Stock Yard (Tikok OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	78.0	mg/l	Max 250
03	SS (Suspended Solids)	116.0	mg/l	Max 100
04	Oil & Grease	3.1	mg/l	Max 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

[Signature]
Technical Manager
Greenzone, Digboi
Technical Manager*(Profim Hazarika)

NOTE:

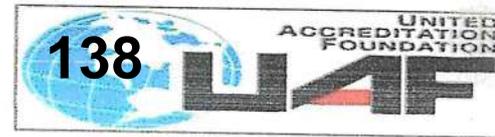
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TEST REPORT

Report No: AN/24/04/00001
Sample ID No: GZ/AN-289/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	74	69	72.22	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tikak OCP)	68	63	66.22	70

Analyzed By:



Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Chief Chemist (D.N.D Choudhury)

Technical Manager (Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: AN/24/04/00004
Sample ID No: GZ/AN-292/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring Source: Kolpara Gaon , Near Panchayat Office (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	53	45	49.95	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Kolpara Gaon ,Near Panchayat Office (Tikak OCP)	43	36	40.15	45

Analyzed By:

Date:
*
GREENZONE

Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/04/00003
Sample ID No: GZ/AN-291/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Coal Dump (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	73	65	69.36	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Coal Dump (Tikak OCP)	68	63	66.22	70

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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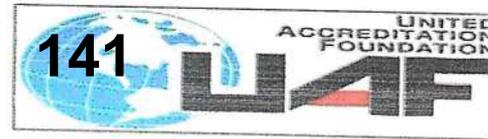
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TEST REPORT

Report No: AN/24/04/00002
Sample ID No: GZ/AN-290/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Namghar (Tikak OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	54	43	49.00	55

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Namghar (Tikak OCP)	40	45	43.22	45

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/01/00008
Sample ID No: GZ/AN-219/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	73	66	70.32	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	69	63	67.11	70

Analyzed By:

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00037

Date of Report:05/02/2024

Sample ID No: GZ/AAQ-214/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Settling Tank (Railway Siding Tikak Colliery)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 24/01/2024	End Date 25/01/2024	Ambient Temperature 23°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.44	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	52.45	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	9.75	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.35	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks : Nil

Analyzed By

Pulakesh
Quality Manager
Greenzone, Digboi

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00027
Sample ID No: GZ/TE-328/24

Date of Report: 07/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Treated Water of ETP (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	2HU & Odourless		--
02	Suspended Solids	26.0	mg/l	100
03	Particulate size of suspended solids	22 Micron		Shall pass 850 Micron IS sieve
04	pH	6.3		5.5-9.0
05	Temperature	21°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.8	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.5	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	11.8	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	13.0	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	35.0	mg/l	Max. 250
13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr ⁺⁶)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	BDL	mg/l	Max. 2.0
19	Copper (as Cu)	0.006	mg/l	Max. 3.0
20	Zinc (as Zn)	0.122	mg/l	Max. 5.0



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21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.05	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.4	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.31	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.6	mg/l	Max. 10

****BDL-Below Detectable Limit**

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Lab Director (Jiten Gogoi)

Lab. Director
Greenzone, Digboi

NOTE:

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****End of Report****



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TEST REPORT

Report No: AN/24/01/00022
Sample ID No: GZ/AN-233/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

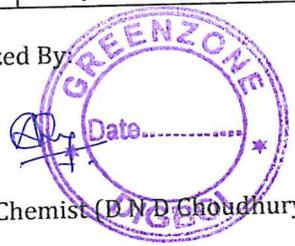
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	74	67	71.45	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	68	62	65.55	70

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/02/00008

Sample ID No: GZ/AN-244/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	74	67	71.6	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	69	64	66.7	70

Analyzed By:



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

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.
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TEST REPORT

Report No: AN/24/02/00019
Sample ID No: GZ/AN-255/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

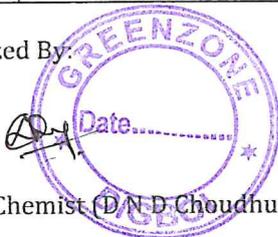
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	73	68	72.5	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	68	62	65.4	70

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:



Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00009

Sample ID No: GZ/AN-267/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	72	65	70.3	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	66	61	64.2	70

Analyzed By:



Chief Chemist (D N/D Choudhury)

Reviewed and Authorized By:

PT
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

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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**** End of Report ****

TEST REPORT

Report No: AAQ/24/03/00011

Date of Report:23/03/2024

Sample ID No: GZ/AAQ-236/23

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Settling Tank (Railway Siding Tikak Colliery)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 11/03/2024	End Date 12/03/2024	Ambient Temperature 24°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.54	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	54.26	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	26.35	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit, * MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks : Nil

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D.N.D Choudhury)



Technical Manager (Pratima Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00024

Sample ID No: GZ/AN-282/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	73	64	69.25	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	67	60	64.15	70

Analyzed By:



Chief Chemist (N. D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/04/00008
Sample ID No: GZ/AN-296/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Settling Tank (Railway Siding Tikak Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	74	63	69.14	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Settling Tank (Railway Siding Tikak Colliery)	66	61	64.22	70

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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Baragolai
JAN 2024

TEST REPORT

Report No: DW/24/01/00024

Date of Report: 05/02/2024

Sample ID No: GZ/DW-194/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam	
Sample Description	Type: Drinking Water	Source: Tube-Well Water nearby Colony (Baragolai Colliery)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 24/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	2	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	7.3	--	6.5 – 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	46.7	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.16	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	5.6	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	165.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By

Reviewed and Authorized By:

Quality Manager,
Greenzone, Digboi

Technical Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Technical Manager (Protim Hazarika)

NOTE:

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SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	22.8	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	18.0	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	3.8	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.7	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	20.0	mg/l	Max 200	Max 600	IS:3025, Part 23

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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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2052



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TEST REPORT

Report No: TE/24/01/00019

Sample ID No: GZ/TE-320/24

Date of Report: 05/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Nullah Near NH 38 (Baragolai Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 24/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	2HU & Odourless	---	--
02	Suspended Solids	46.0	mg/l	100
03	Particulate size of suspended solids	21 Micron	--	Shall pass 850 Micron IS sieve
04	pH	6.4	--	5.5-9.0
05	Temperature	21°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.8	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.3	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	11.8	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	11	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	32	mg/l	Max. 250

****BDL-Below Detectable Limit**

Analyzed By

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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- Results refer only to the particular parameters tested.
- Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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2053



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13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr +6)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.003	mg/l	Max. 2.0
19	Copper (as Cu)	0.006	mg/l	Max. 3.0
20	Zinc (as Zn)	0.130	mg/l	Max. 5.0
21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.07	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.6	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.35	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.8	mg/l	Max. 10

****BDL-Below Detectable Limit**

Analyzed By

**Quality Manager
Greenzone, Digboi**

Reviewed and Authorized By

**Technical Manager
Greenzone, Digboi**

Quality Manager(Pulakesh Dung)

Technical Manager(Protim Hazarika)

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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TEST REPORT

Ledo ocp

JAN 2024

Report No: TE/24/01/00017

Sample ID No: GZ/TE-318/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

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 (Ledo OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 14/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	2 HU & Odourless	---	--
02	Suspended Solids	36.0	mg/l	100
03	Particulate size of suspended solids	21 Micron	--	Shall pass 850 Micron IS sieve
04	pH	6.4	--	5.5-9.0
05	Temperature	22°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.5	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.4	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	9.5	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	12	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	26.0	mg/l	Max. 250

✓



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13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr +6)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.006	mg/l	Max. 2.0
19	Copper (as Cu)	0.004	mg/l	Max. 3.0
20	Zinc (as Zn)	0.127	mg/l	Max. 5.0
21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.05	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.8	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.33	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.7	mg/l	Max. 10

****BDL-Below Detectable Limit**

Analyzed By

Quality Manager
Greenzone, Digboi
Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Pratim Hazarika)

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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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.

**** End of Report ****

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TEST REPORT

Report No: AN/24/01/00012
Sample ID No: GZ/AN-223/24

Date of Report: 05/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Ledo OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Ledo OCP)	74	67	70.45	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Ledo OCP)	68	63	64.75	70

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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** End of Report **

TEST REPORT

Report No: DW/24/01/00023

Date of Report: 05/02/2024

Sample ID No: GZ/DW-193/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Tube-Well Water of Sipegaon (Ledo OCP)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 22/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	2	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	7.1	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	33.6	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.17	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	5.8	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	169.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By

Reviewed and Authorized By:


Quality Manager
Greenzone, Digboi
Quality Manager(Pulakesh Dung)


Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	21.0	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	16.5	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	7.2	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.4	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	17.0	mg/l	Max 200	Max 600	IS:3025, Part 23

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By


Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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****End of Report****

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TEST REPORT

Report No: AAQ/24/01/00045

Sample ID No: GZ/AAQ-222/24

Date of Report: 10/02/2024

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Pit No.1 Mine Area (Ledo OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 30/01/2024	End Date 31/01/2024	Ambient Temperature 19°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

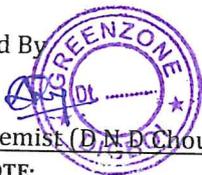
Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	19.4	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	48.9	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.3	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	19.4	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: NIL

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Pulakesh Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

NOTE:

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End of Report



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TEST REPORT

Report No: AAQ/24/01/00046

Sample ID No: GZ/AAQ-223/24

Date of Report: 10/02/2024

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Ambient Air Sample Heavy Metal	Source: Pit No.1 Mine Area (Ledo OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 30/01/2024	End Date 31/01/2024	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit
01	Mercury (as Hg)	BDL (MDL:0.001)	µg /m ³	-
02	Chromium (as Cr)	BDL (MDL:0.001)	µg /m ³	-

*BDL : Below Detection Limit ,

*MDL: Minimum Detection Limit

Analyzed By



Chief. Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

NOTE:

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2. Results refer only to the particular parameters tested.
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Tirup R. Siding

TEST REPORT

JAN to APR - 2024

Report No: AN/24/01/00011

Sample ID No: GZ/AN-222/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	73	65	69.45	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	69	62	65.35	70

Analyzed By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

Reviewed and Authorized By: ✓

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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****End of Report****

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TEST REPORT

Report No: TE/24/01/00015
Sample ID No: GZ/TE-316/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Near Entrance Gate (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	4HU & Odourless	---	--
02	Suspended Solids	21.0	mg/l	100
03	Particulate size of suspended solids	22 Micron	--	Shall pass 850 Micron IS sieve
04	pH	6.4	--	5.5-9.0
05	Temperature	23°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.3	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.5	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	8.5	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	14	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	36	mg/l	Max. 250

**BDL-Below Detectable Limit

Analyzed By

Pulakesh Dng
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dng)

Reviewed and Authorized By:

Protim Hazarika
Quality Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr +6)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.009	mg/l	Max. 2.0
19	Copper (as Cu)	0.003	mg/l	Max. 3.0
20	Zinc (as Zn)	0.120	mg/l	Max. 5.0
21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.06	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.5	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.45	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.5	mg/l	Max. 10

****BDL-Below Detectable Limit**

Analyzed By

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report ****



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TEST REPORT

Report No: TE/24/01/00035

Date of Report: 07/02/2024

Sample ID No: GZ/TE-336/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source:	Near Entrance Gate (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	3HU & Odourless	---	--
02	Suspended Solids	23.0	mg/l	100
03	Particulate size of suspended solids	21 Micron	--	Shall pass 850 Micron IS sieve
04	pH	6.5	--	5.5-9.0
05	Temperature	21°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.4	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.4	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	8.8	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	16	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	39	mg/l	Max. 250
13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr ⁺⁶)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.007	mg/l	Max. 2.0
19	Copper (as Cu)	0.004	mg/l	Max. 3.0
20	Zinc (as Zn)	0.122	mg/l	Max. 5.0

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21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.06	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.5	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.46	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.5	mg/l	Max. 10

**BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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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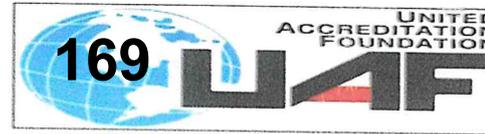
**End of Report **



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TEST REPORT

Report No: AN/24/01/00025
Sample ID No: GZ/AN-236/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	71	64	67.20	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	68	60	63.40	70

Analyzed By:



Chief Chemist (D. N. Choudhury)

Reviewed and Authorized By:



Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00044

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-221/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 29/01/2024	End Date 30/01/2024	Ambient Temperature 20°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.5	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	53.6	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.6	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	26.9	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit, *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (P.N.D. Choudhury)

Reviewed and Authorized By:

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

NOTE:

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TEST REPORT

Report No: AN/24/02/00011

Sample ID No: GZ/AN-247/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

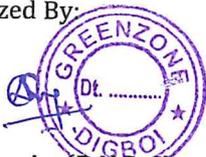
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	74	66	68.6	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	68	61	64.2	70

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00014

Date of Report: 24/02/2024

Sample ID No: GZ/TE-353/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source: Near Entrance Gate (Railway Siding Tirap Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	35	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.5	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°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	0.8	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	9.4	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	9.6	mg/l	Max. 30
12.	Chemical Oxygen Demand	25.0	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)	0.002	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.068	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)	0.5	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	1.3	mg/l	Max. 10

Analyzed By



Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00031

Date of Report: 07/03/2024

Sample ID No: GZ/TE-370/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source: Near Entrance gate (Railway siding Tirap Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Unit	Limit as per GSR 422(E),19.05.1993 & 31.12.1993
1.	Colour and Odor	2HU & Agreeable	--	--
2.	Suspended Solids	39	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.3	--	5.5-9.0
5.	Temperature	24<2°ofAmbient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.9	mg/l	Max. 10
7.	Total residual chlorine	Nil mg/l	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	1.4 mg/l	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	9.8 mg/l	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil mg/l	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	7.8 mg/l	mg/l	Max. 30
12.	Chemical Oxygen Demand	29.0 mg/l	mg/l	Max. 250
13.	Arsenic(As)	BDLmg/l	mg/l	Max. 0.2
14.	Mercury(Hg)	BDL mg/l	mg/l	Max. 0.01
15.	Lead(Pb)	BDL mg/l	mg/l	Max. 0.1
16.	Cadmium(Cd)	BDLmg/l	mg/l	Max. 2.0
17.	Hexavalent Chromium(Cr ⁺⁶)	BDLmg/l	mg/l	Max. 0.1
18.	Total Chromium (Cr)	BDLmg/l	mg/l	Max. 2.0
19.	Copper (Cu)	0.004mg/l	mg/l	Max. 3.0





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20.	Zinc(Zn)	0.108 mg/l	mg/l	Max. 5.0
21.	Selenium(Se)	BDL mg/l	mg/l	Max. 0.05
22.	Nickel (Ni)	BDLmg/l	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL mg/l	mg/l	Max. 0.2
24.	Fluoride(F)	BDL mg/l	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	0.5 mg/l	mg/l	Max. 5.0
26.	Sulphide(S)	BDL mg/l	mg/l	Max. 2.0
27.	Phenoile Compounds(C ₆ H ₅ OH)	BDLmg/l	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)	BDLmg/l	mg/l	Max. 2.0
30.	Iron (Fe)	0.32 mg/l	mg/l	Max. 3.0
31.	Vanadium (V)	BDL mg/l	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.2 mg/l	mg/l	Max. 10

Analyzed By:



Quality Manager (Pulakesh Dang)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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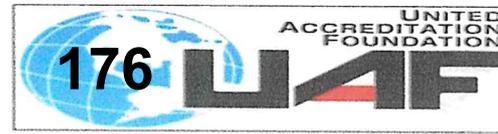


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TEST REPORT

Report No: AN/24/02/00022
Sample ID No: GZ/AN-258/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

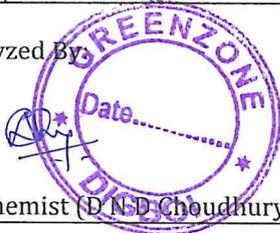
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	73	66	70.57	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	69	62	65.8	70

Analyzed By



Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Chief Chemist (D.N.D.Choudhury)

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00012
Sample ID No: GZ/AN-270/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

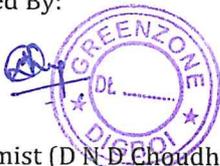
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	73	67	70.8	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	68	63	66.3	70

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By: ✓

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/03/00018

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-243/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 14/03/2024	End Date 15/03/2024	Ambient Temperature 24°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

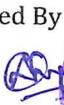
Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.84	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	54.21	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.36	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By




Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:



Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00019

Sample ID No: GZ/TE-390/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source: Near Entrance gate (Railway siding Tirap Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	2 HU & Agreeable	--	--
2.	Suspended Solids	34.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.3		5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°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	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.6 mg/l	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	7.8 mg/l	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil mg/l	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	9.8 mg/l	mg/l	Max. 30
12.	Chemical Oxygen Demand	28.0 mg/l	mg/l	Max. 250
13.	Arsenic(As)	BDLmg/l	mg/l	Max. 0.2
14.	Mercury(Hg)	BDL mg/l	mg/l	Max. 0.01
15.	Lead(Pb)	BDL mg/l	mg/l	Max. 0.1
16.	Cadmium(Cd)	BDLmg/l	mg/l	Max. 2.0
17.	Hexavalent Chromium(Cr ⁺⁶)	BDLmg/l	mg/l	Max. 0.1
18.	Total Chromium (Cr)	BDLmg/l	mg/l	Max. 2.0
19.	Copper (Cu)	0.002mg/l	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.086 mg/l	mg/l	Max. 5.0
21.	Selenium(Se)	BDL mg/l	mg/l	Max. 0.05
22.	Nickel (Ni)	BDLmg/l	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL mg/l	mg/l	Max. 0.2
24.	Fluoride(F)	BDL mg/l	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	0.4 mg/l	mg/l	Max. 5.0
26.	Sulphide(S)	BDL mg/l	mg/l	Max. 2.0
27.	Phenoile Compounds(C ₆ H ₅ OH)	BDLmg/l	mg/l	Max. 1.0
28.	Bio-assay Test	90% survival of fish after 96 hours in 100%effluent	mg/l	90% survival of fish after 96 hours in 100%effluent
29.	Manganese (Mn)	BDLmg/l	mg/l	Max. 2.0
30.	Iron (Fe)	0.33 mg/l	mg/l	Max. 3.0
31.	Vanadium (V)	BDL mg/l	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.4 mg/l	mg/l	Max. 10

Analyzed By



 Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:


 Technical Manager
 Greenzone, Digboi
 Technical Manager (Protim Hazarika)

NOTE:

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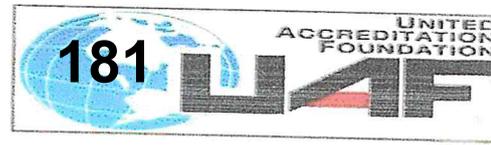
**** End of Report ****



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TEST REPORT

Report No: AN/24/03/00027
Sample ID No: GZ/AN-285/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	74	66	70.36	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	69	62	65.93	70

Analyzed By:



Reviewed and Authorized By:



**Technical Manager
Greenzone, Digboi**
Technical Manager (Protim Hazarika)

Chief Chemist (D.N.D. Choudhury)

NOTE:

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****End of Report****



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TEST REPORT

Report No: TE/24/03/00041

Sample ID No: GZ/TE-412/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source: Near Entrance Gate (Railway Siding Tirap Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	1HU & Agreeable	--	--
2.	Suspended Solids	34.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.8	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.6	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)	9.2	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	13.6	mg/l	Max. 30
12.	Chemical Oxygen Demand	44.0	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)	0.084	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)	0.4	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)	0.33	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.4	mg/l	Max. 10



Analyzed By

Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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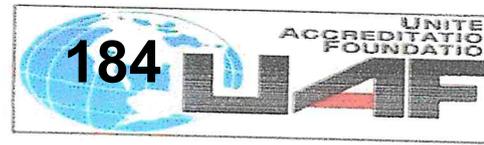
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TEST REPORT

Report No: TE/24/04/00015
Sample ID No: GZ/TE-430/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water	Source: Near Entrance Gate (Railway Siding Tirap Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	3H& Agreeable	--	--
2.	Suspended Solids	38.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.9	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°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	0.6	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	6.8	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	13.2	mg/l	Max. 30
12.	Chemical Oxygen Demand	46.0	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)	0.002	mg/l	Max. 3.0



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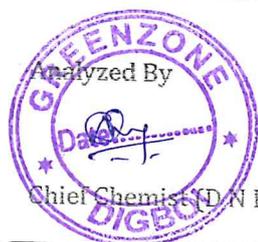
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20.	Zinc(Zn)	0.068	mg/l	Max. 5.0
21.	Selenium(Se)	BDL	mg/l	Max. 0.05
22.	Nickel (Ni)	BDL	mg/l	Max. 3.0
23.	Cyanide (CN)	BDL	mg/l	Max. 0.2
24.	Fluoride(F)	BDL	mg/l	Max. 2.0
25.	Dissolved Phosphates (P)	0.4	mg/l	Max. 5.0
26.	Sulphide(S)	BDL	mg/l	Max. 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)	0.38	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.5	mg/l	Max. 10



Analyzed By

Date: / /

Chief Chemist (D. N. D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/04/00011

Sample ID No: GZ/AN-299/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Near Workshop (Manager Office) (Railway Siding Tirap Colliery)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

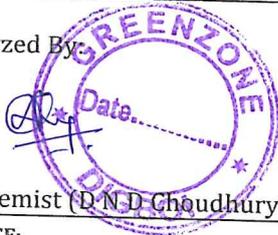
(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	74	63	70.57	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Near Workshop (Manager Office) (Railway Siding Tirap Colliery)	68	61	64.93	70

Analyzed By:



Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**

Chief Chemist (D.N.D. Choudhury)

Technical Manager(Protim Hazarika)

NOTE:

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187

TIRAP OCP
JAN 10 APRIL 2024

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TEST REPORT

Report No: TE/24/01/00009
Sample ID No:GZ/TE-310/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	29.0	mg/l	Max 250
03	SS (Suspended Solids)	44.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

Technical Manager
Greenzone, Digboi
Technical Manager (Pram Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/01/00008

Date of Report: 27/01/2024

Sample ID No: GZ/TE-309/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: West mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	5.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	145.0	mg/l	Max 250
03	SS (Suspended Solids)	105.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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** End of Report**



M/s. GREENZONE

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TEST REPORT

Report No: TE/24/01/00010

Date of Report: 27/01/2024

Sample ID No: GZ/TE-311/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: East mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	5.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	39.0	mg/l	Max 250
03	SS (Suspended Solids)	69.0	mg/l	Max 100
04	Oil & Grease	2.3	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

[Signature]
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/01/00010
Sample ID No: GZ/AN-221/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

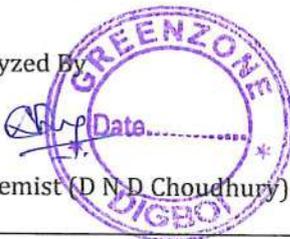
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	74	67	71.32	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)	Limits L _{eq} (dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	68	64	66.61	70

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Authorized Signatory:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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** End of Report **



M/s. GREENZONE

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TEST REPORT

Report No: AN/24/01/00009
Sample ID No: GZ/AN-220/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	12/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	73	65	69.56	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	68	64	66.61	70

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Authorized Signatory:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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** End of Report **



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TEST REPORT

Report No: TE/24/01/00011

Sample ID No: GZ/TE-312/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	28.0	mg/l	Max 250
03	SS (Suspended Solids)	41.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

Analyzed By

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report ****



M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

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TEST REPORT

Report No: TE/24/01/00012

Date of Report: 27/01/2024

Sample ID No:GZ/TE-313/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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)	37.0	mg/l	Max 250
03	SS (Suspended Solids)	49.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:

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

Protim
Technical Manager
Greenzone, Digboi
 Technical Manager(Protim Hazarika)

NOTE:

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**** End of Report ****



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TEST REPORT

Report No: TE/24/01/00013
Sample ID No:GZ/TE-314/24

Date of Report: 27/01/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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	6.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	22.0	mg/l	Max 250
03	SS (Suspended Solids)	61.0	mg/l	Max 100
04	Oil & Grease	1.4	mg/l	Max 10

Analyzed By

Quality Manager
Greenzone, Digboi
Quality Manager (Polakesh Dung)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report ****



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TEST REPORT

Report No: TE/24/01/00014

Sample ID No:GZ/TE-315/24

Date of Report: 27/01/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 12/01/2024	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)	26.0	mg/l	Max 250
03	SS (Suspended Solids)	49.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By

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

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report ****

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TEST REPORT

Report No: AAQ/24/01/00038

Date of Report: 05/02/2024

Sample ID No: GZ/AAQ-215/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Tirap East Mine (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 24/01/2024	End Date 25/01/2024	Ambient Temperature 22°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.65	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	53.45	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.25	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	25.33	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

 Quality Manager
Greenzone, Digboi

Reviewed and Authorized By:

 Technical Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00039

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-216/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Tirap West Mine (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 25/01/2024	End Date 26/01/2024	Ambient Temperature 20°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.5	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	56.3	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.2	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.6	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

NOTE:

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TEST REPORT

Report No: DW/24/01/00027

Date of Report: 08/02/2024

Sample ID No: GZ/DW-197/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Drinking Water of Residential Area (Tirap OCP)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 25/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	2	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	6.7	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	43.8	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.18	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	7.2	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	155.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

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

NOTE:

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SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	24.5	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	16.5	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	5.6	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.5	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	22.0	mg/l	Max 200	Max 600	IS:3025, Part 23

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager (Pulakesh Dung)

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TEST REPORT

Report No: AAQ/24/01/00040

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-217/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam			
Sample Description	Type: Ambient Air Sample	Source: Sipegaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 25/01/2024	End Date 26/01/2024	Ambient Temperature 20°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	19.6	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	55.7	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.3	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.8	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

NOTE:

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TEST REPORT

Report No: TE/24/01/00029

Sample ID No:GZ/TE-330/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	26.0	mg/l	Max 250
03	SS (Suspended Solids)	40.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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2. Results refer only to the particular parameters tested.
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**** End of Report ****

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TEST REPORT

Report No: TE/24/01/00030
Sample ID No:GZ/TE-331/24

Date of Report: 07/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: East Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	46.0	mg/l	Max 250
03	SS (Suspended Solids)	73.0	mg/l	Max 100
04	Oil & Grease	2.8	mg/l	Max 10

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:



Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: TE/24/01/00031

Sample ID No: GZ/TE-332/24

Date of Report: 10/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	25.0	mg/l	Max 250
03	SS (Suspended Solids)	43.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N. Choudhury)

Reviewed and Authorized By:



Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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** End of Report **

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TEST REPORT

Report No: TE/24/01/00032

Date of Report: 07/02/2024

Sample ID No:GZ/TE-333/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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)	32.0	mg/l	Max 250
03	SS (Suspended Solids)	46.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D. N. Choudhury)



Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: TE/24/01/00033

Sample ID No:GZ/TE-334/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	26.0	mg/l	Max 250
03	SS (Suspended Solids)	64.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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** End of Report **

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TEST REPORT

Report No: TE/24/01/00034

Sample ID No: GZ/TE-335/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

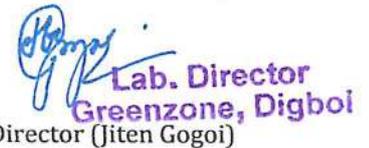
Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	pH	5.8	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	22.0	mg/l	Max 250
03	SS (Suspended Solids)	45.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By



Chief Chemist (D.N. Choudhury)

Reviewed and Authorized By:



Lab Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: AN/24/01/00023
Sample ID No: GZ/AN-234/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	72	66	70.54	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	68	62	64.40	70

Analyzed By



Chief Chemist (D.N Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

NOTE:

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TEST REPORT

Report No: AN/24/01/00024
Sample ID No: GZ/AN-235/24

Date of Report: 08/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	26/01/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	71	64	66.80	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	67	61	63.40	70

Analyzed By



Chief Chemist (D N Choudhury)

Reviewed and Authorized By:


Lab. Director
Greenzone, Digboi
Lab Director (Jiten Gogoi)

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TEST REPORT

Report No: TE/24/01/00028

Sample ID No: GZ/TE-329/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: West mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 26/01/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	138.0	mg/l	Max 250
03	SS (Suspended Solids)	112.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Signature
Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00041

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-218/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Ledo Gaon, Pero Field (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 27/01/2024	End Date 28/01/2024	Ambient Temperature 21°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.6	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	49.5	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.6	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	26.5	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

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

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00042

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-219/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam			
Sample Description	Type: Ambient Air Sample	Source: Pacha Gaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 27/01/2024	End Date 28/01/2024	Ambient Temperature 21°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.6	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	52.4	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.7	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.4	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

NOTE:

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TEST REPORT

Report No: AAQ/24/01/00043

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-220/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Malamkhan Gaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 29/01/2024	End Date 30/01/2024	Ambient Temperature 20°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.2	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	50.8	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.6	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	20.8	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Quality Manager
Greenzone, Digboi
Quality Manager (Pulakesh Dung)

NOTE:

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TEST REPORT

Report No: AN/24/02/00009
Sample ID No: GZ/AN-245/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

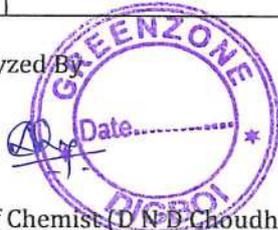
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	74	64	70.88	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	68	63	66.22	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00008

Date of Report: 24/02/2024

Sample ID No:GZ/TE-347/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: West Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	144.0	mg/l	Max 250
03	SS (Suspended Solids)	119.0	mg/l	Max 100
04	Oil & Grease	2.4	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00009

Date of Report: 24/02/2024

Sample ID No:GZ/TE-348/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	23.0	mg/l	Max 250
03	SS (Suspended Solids)	41.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00010

Date of Report: 24/02/2024

Sample ID No:GZ/TE-349/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: East Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	53.0	mg/l	Max 250
03	SS (Suspended Solids)	84.0	mg/l	Max 100
04	Oil & Grease	2.9	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00011

Date of Report: 24/02/2024

Sample ID No:GZ/TE-350/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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)	39.0	mg/l	Max 250
03	SS (Suspended Solids)	48.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00012

Date of Report: 24/02/2024

Sample ID No:GZ/TE-351/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	29.0	mg/l	Max 250
03	SS (Suspended Solids)	69.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D.N.D Choudhury)

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: TE/24/02/00013

Sample ID No:GZ/TE-352/24

Date of Report: 24/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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)	26.0	mg/l	Max 250
03	SS (Suspended Solids)	47.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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.

** End of Report **





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TEST REPORT

Report No: TE/24/02/00015

Date of Report: 24/02/2024

Sample ID No: GZ/TE-354/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of STP,Dehing Colony Guest House (Margherita Residential)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	23.0	mg/l	Max 250
03	SS (Suspended Solids)	32.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

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.

**** End of Report****



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TEST REPORT

Report No: TE/24/02/00016
Sample ID No: GZ/TE-355/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 09/02/2024	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	6.6	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	21.0	mg/l	Max 250
03	SS (Suspended Solids)	39.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

Analyzed By



Chief Chemist (DIPD) Choudhury

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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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TEST REPORT

Report No: AN/24/02/00010
Sample ID No: GZ/AN-246/24

Date of Report: 24/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	09/02/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	73	68	72.6	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	69	66	68.4	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager (Pratim Hazarika)

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.

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TEST REPORT

Report No: AN/24/02/00021
Sample ID No: GZ/AN-257/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

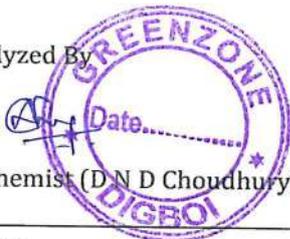
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	73	67	70.46	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	69	64	67.6	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

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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** End of Report **

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TEST REPORT

Report No: AN/24/02/00020
Sample ID No: GZ/AN-256/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	23/02/2024

ANALYSIS REPORT

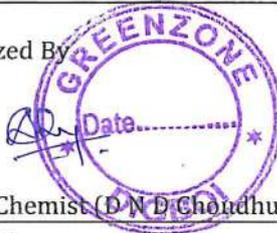
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	74	65	70.51	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	69	62	65.4	70

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

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.
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TEST REPORT

Report No: TE/24/02/00024

Sample ID No:GZ/TE-363/24

Date of Report: 07/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: West Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	132.0	mg/l	Max 250
03	SS (Suspended Solids)	121.0	mg/l	Max 100
04	Oil & Grease	2.2	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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.
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TEST REPORT

Report No: TE/24/02/00025

Date of Report: 07/03/2024

Sample ID No:GZ/TE-364/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	29.0	mg/l	Max 250
03	SS (Suspended Solids)	43.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00026

Date of Report: 07/03/2024

Sample ID No:GZ/TE-365/24

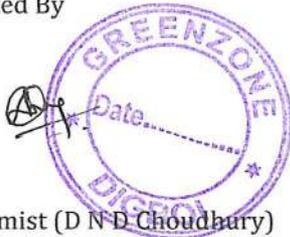
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: East Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	5.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	48.0	mg/l	Max 250
03	SS (Suspended Solids)	77.0	mg/l	Max 100
04	Oil & Grease	2.4	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00027

Date of Report: 07/03/2024

Sample ID No: GZ/TE-366/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	23.0	mg/l	Max 250
03	SS (Suspended Solids)	42.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/02/00028
Sample ID No:GZ/TE-367/24

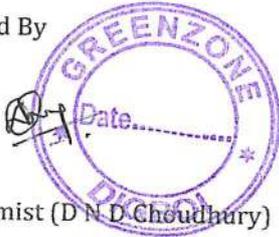
Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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)	41.0	mg/l	Max 250
03	SS (Suspended Solids)	45.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

- Results reported are valid at the time of and under the prevailing conditions of measurement.
- Results refer only to the particular parameters tested.
- Remnant sample will be destroyed after 20 days from the date of receipt of sample.
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TEST REPORT

Report No: TE/24/02/00029

Date of Report: 07/03/2024

Sample ID No:GZ/TE-368/24

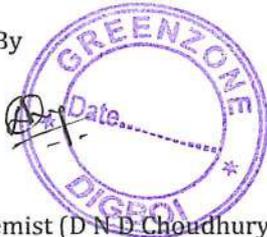
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	33.0	mg/l	Max 250
03	SS (Suspended Solids)	64.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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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TEST REPORT

Report No: TE/24/02/00030
Sample ID No:GZ/TE-369/24

Date of Report: 07/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 23/02/2024	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	6.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	31.0	mg/l	Max 250
03	SS (Suspended Solids)	51.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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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TEST REPORT

Report No: AN/24/03/00011

Sample ID No: GZ/AN-269/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	74	66	72.4	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	68	63	66.5	70

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:



Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00010
Sample ID No: GZ/AN-268/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	08/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	74	64	72.3	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	68	62	64.3	70

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Signature
Technical Manager
Greenzone, Digboi

Technical Manager (Protim Hazarika)

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.

** End of Report **



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TEST REPORT

Report No: TE/24/03/00018

Sample ID No:GZ/TE-389/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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)	29.0	mg/l	Max 250
03	SS (Suspended Solids)	49.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00017

Sample ID No:GZ/TE-388/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	27.0	mg/l	Max 250
03	SS (Suspended Solids)	64.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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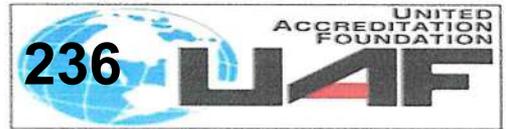
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236

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TEST REPORT

Report No: TE/24/03/00016

Sample ID No:GZ/TE-387/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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)	34.0	mg/l	Max 250
03	SS (Suspended Solids)	47.0	mg/l	Max 100
04	Oil & Grease	1.7	mg/l	Max 10

Analyzed By



Chief Chemist (D N B Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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237

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TEST REPORT

Report No: TE/24/03/00014
Sample ID No:GZ/TE-385/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: East Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	56.0	mg/l	Max 250
03	SS (Suspended Solids)	94.0	mg/l	Max 100
04	Oil & Grease	2.8	mg/l	Max 10

Analyzed By

Reviewed and Authorized By:



Protim Hazarika
Technical Manager
Greenzone, Digboi

Chief Chemist (D N D Choudhury)

Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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2135



238

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TEST REPORT

Report No: TE/24/03/00015

Date of Report: 23/03/2024

Sample ID No: GZ/TE-386/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	20.0	mg/l	Max 250
03	SS (Suspended Solids)	37.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00012

Sample ID No:GZ/TE-383/24

Date of Report: 23/03/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Un-Treated)	Source: West Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	5.1	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	149.0	mg/l	Max 250
03	SS (Suspended Solids)	116.0	mg/l	Max 100
04	Oil & Grease	2.5	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

 Technical Manager
Greenzone, Digboi

Technical Manager(Protim Hazarika)

NOTE:

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240

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TEST REPORT

Report No: TE/24/03/00013
Sample ID No:GZ/TE-384/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 08/03/2024	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	6.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	21.0	mg/l	Max 250
03	SS (Suspended Solids)	44.0	mg/l	Max 100
04	Oil & Grease	1.9	mg/l	Max 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

*Technical Manager
Greenzone, Digboi*

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AAQ/24/03/00013

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-238/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Tirap West Mine (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 12/03/2024	End Date 13/03/2024	Ambient Temperature 25°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.24	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	53.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	24.54	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

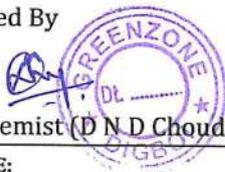
*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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End of Report

TEST REPORT

Report No: AAQ/24/03/00012

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-237/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Tirap East Mine (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 11/03/2024	End Date 12/03/2024	Ambient Temperature 25°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	20.45	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	49.85	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.50	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	25.35	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab Director, Greenzone, Digboi

Lab Director (Jiten Gogoi)

NOTE:

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End of Report*

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TEST REPORT

Report No: AAQ/24/03/00014

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-239/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Sipegaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 12/03/2024	End Date 13/03/2024	Ambient Temperature 24°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.41	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	52.74	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.35	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.65	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Reviewed and Authorized By

Chief Chemist (D N D Choudhury)

Technical Manager (Pratim Hazarika)

NOTE:

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End of Report

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TEST REPORT

Report No: AAQ/24/03/00015
Sample ID No: GZ/AAQ-240/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Ledo Gaon, Pero Field (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 13/03/2024	End Date 14/03/2024	Ambient Temperature 25°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	23.54	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	53.65	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	12.45	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.33	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Reviewed and Authorized By:



Chief Chemist (D N D Choudhury)

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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****End of Report****

TEST REPORT

Report No: AAQ/24/03/00016
Sample ID No: GZ/AAQ-241/24

Date of Report: 23/03/2024
Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Pacha Gaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 13/03/2024	End Date 14/03/2024	Ambient Temperature 24°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	21.85	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	55.24	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	11.36	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.33	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By

Reviewed and Authorized By:

Chief Chemist (D N D Choudhury)

Technical Manager (Protim Hazarika)

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.

End of Report

TEST REPORT

Report No: AAQ/24/03/00017

Date of Report: 23/03/2024

Sample ID No: GZ/AAQ-242/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Malamkhan Gaon (Tirap OCP)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 14/03/2024	End Date 15/03/2024	Ambient Temperature 24°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	19.85	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	52.45	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	8.95	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	22.35	µg /m ³	80 (24 Hours Average)
05	Ozone(as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

*BDL : Below Detection Limit , *MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: Nil

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Profim Hazarika)

NOTE:

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****End of Report****



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TEST REPORT

Report No: TE/24/03/00036

Date of Report: 05/04/2024

Sample ID No: GZ/TE-407/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: East Mine Raw water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	5.3	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	72.0	mg/l	Max 250
03	SS (Suspended Solids)	84.0	mg/l	Max 100
04	Oil & Grease	1.8	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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TEST REPORT

Report No: TE/24/03/00034

Sample ID No: GZ/TE-405/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Untreated)	Source: West Mine Raw water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	5.2	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	59.0	mg/l	Max 250
03	SS (Suspended Solids)	82.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

**BDL-Below Detectable Limit

Analyzed By:



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Prof. Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00026
Sample ID No: GZ/AN-284/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

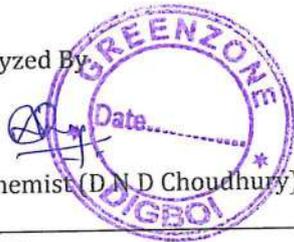
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	73	67	70.55	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	67	64	65.68	70

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: AN/24/03/00025

Sample ID No: GZ/AN-283/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	22/03/2024

ANALYSIS REPORT

Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	73	63	68.75	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	69	61	65.56	70

Analyzed By



Chief Chemist (D.N.D. Ghoudhury)

Reviewed and Authorized By:

Protim
**Technical Manager
Greenzone, Digboi**

Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00035

Date of Report: 05/04/2024

Sample ID No:GZ/TE-406/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent Water (Treated)	Source: Treated Water of Neutralization Pond (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	6.5	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	34.0	mg/l	Max 250
03	SS (Suspended Solids)	32.0	mg/l	Max 100
04	Oil & Grease	1.1	mg/l	Max 10

Analyzed By



Chief Chemist (B.N.D. Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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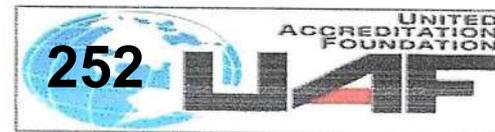
** End of Report **



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TEST REPORT

Report No: TE/24/03/00037

Date of Report: 05/04/2024

Sample ID No: GZ/TE-408/24

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Effluent Water (Treated)	Source: East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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	6.4	--	5.5-9.0
02	COD (Chemical Oxygen Demand)	28.0	mg/l	Max 250
03	SS (Suspended Solids)	36.0	mg/l	Max 100
04	Oil & Grease	BDL	mg/l	Max 10

BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D. N. D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00038

Sample ID No:GZ/TE-409/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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)	68.0	mg/l	Max 250
03	SS (Suspended Solids)	82.0	mg/l	Max 100
04	Oil & Grease	2.1	mg/l	Max 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/03/00039

Sample ID No:GZ/TE-410/24

Date of Report: 05/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia, Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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)	24.0	mg/l	Max 250
03	SS (Suspended Solids)	34.0	mg/l	Max 100
04	Oil & Grease	BDL	mg/l	Max 10

BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D N B Choudhury)

Reviewed and Authorized By:

Protim Hazarika
**Technical Manager
Greenzone, Digboi**
Technical Manager(Protim Hazarika)

NOTE:

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**** End of Report ****

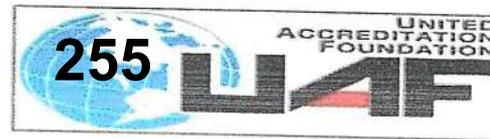




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TEST REPORT

Report No: TE/24/03/00040
Sample ID No:GZ/TE-411/24

Date of Report: 05/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 22/03/2024	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)	34.0	mg/l	Max 250
03	SS (Suspended Solids)	38.0	mg/l	Max 100
04	Oil & Grease	1.6	mg/l	Max 10

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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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TEST REPORT

Report No: AN/24/04/00009
Sample ID No: GZ/AN-297/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Mine Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

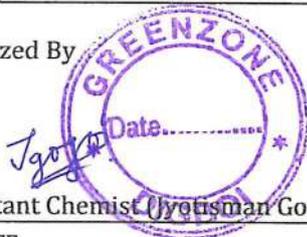
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	73	64	69.28	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits Leq(dB-A) (As per CPCB Guidelines)
1.	Mine Area (Tirap OCP)	68	60	64.56	70

Analyzed By



Assistant Chemist (Jyotisman Gogoi)

Reviewed and Authorized By:



Technical Manager(Protim Hazarika)

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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TEST REPORT

Report No: AN/24/04/00010
Sample ID No: GZ/AN-298/24

Date of Report: 12/04/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam
Sample Description	Type: Ambient Noise Level Monitoring
	Source: Coal Dump Area (Tirap OCP)
Sample collected by	Greenzone Representative
Sample Collection Particulars	05/04/2024

ANALYSIS REPORT

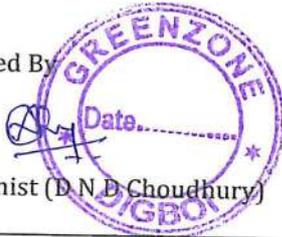
Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq (dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	74	66	70.80	75

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)	Limits
					Leq (dB-A) (As per CPCB Guidelines)
1.	Coal Dump Area (Tirap OCP)	66	62	64.82	70

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/04/00008

Sample ID No: GZ/TE-423/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water (Untreated)	Source: West mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	5HU & Agreeable	--	--
2.	Suspended Solids	78.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.2	--	5.5-9.0
5.	Temperature	24 < 2° of Ambient Temperature	°C	Shall not exceed 5°C above the receiving water temperature
6.	Oil & Grease	1.4	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	1.2	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen (NH ₃)	11.4	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	19.4	mg/l	Max. 30
12.	Chemical Oxygen Demand	56.0	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)	0.006	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.184	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)	1.2	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	mg/l	90% survival of fish after 96 hours in 100%effluent
29.	Manganese (Mn)	BDL	mg/l	Max. 2.0
30.	Iron (Fe)	0.38	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.6	mg/l	Max. 10



Analyzed By

Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/04/00009

Sample ID No: GZ/TE-424/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source:Treated Water of Neutralisation Pond(Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	1HU& Agreeable	--	--
2.	Suspended Solids	28.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.3	--	5.5-9.0
5.	Temperature	24<2°ofAmbient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.0	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.6	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	8.2	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	10.6	mg/l	Max. 30
12.	Chemical Oxygen Demand	32.0	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)	0.002	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.054	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)	0.6	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)	0.28	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.2	mg/l	Max. 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/04/00010

Sample ID No: GZ/TE-425/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam		
Sample Description	Type: Effluent water (Untreated)	Source: East Mine Raw Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	88.0	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.3	--	5.5-9.0
5.	Temperature	24 < 2° of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	2.1	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)	9.4	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	28.4	mg/l	Max. 30
12.	Chemical Oxygen Demand	76.0	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)	0.006	mg/l	Max. 3.0

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20.	Zinc(Zn)	0.134	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)	1.2	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)	0.34	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.1	mg/l	Max. 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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TEST REPORT

Report No: TE/24/04/00011

Sample ID No: GZ/TE-426/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED , Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Effluent water (Treated)	Source:East Mine Treated Water (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	32.0	mg/l	100
3.	Particulate size of suspended solids	< 20 Micron	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.3	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	BDL	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.6	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	9.4	mg/l	Max. 30
12.	Chemical Oxygen Demand	24.0	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)	0.002	mg/l	Max. 3.0

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20.	Zinc(Zn)	0.052	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)	0.5	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	1.1	mg/l	Max. 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

NOTE:

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**** End of Report ****



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TEST REPORT

Report No: TE/24/04/00012

Sample ID No: GZ/TE-427/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Sipe Gaon Nallah Wtaer (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	78	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.7	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°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	1.8	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	6.2	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	17.2	mg/l	Max. 30
12.	Chemical Oxygen Demand	62.0	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)	0.0184	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)	0.32	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.6	mg/l	Max. 10

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Protim Hazarika
Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

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TEST REPORT

Report No: TE/24/04/00013

Sample ID No: GZ/TE-428/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Upstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	Quantity Drawn : 3 L	

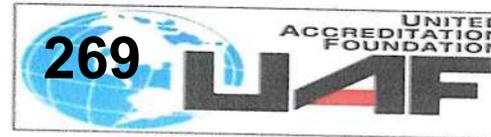
ANALYSIS REPORT

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	32	mg/l	100
3.	Particulate size of suspended solids	<20	Micron	Shall pass 850 Micron IS sieve
4.	pH	6.0	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	BDL	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	0.6	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	5.8	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	6.8	mg/l	Max. 30
12.	Chemical Oxygen Demand	22.0	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)	0.002	mg/l	Max. 3.0



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20.	Zinc(Zn)	0.0154	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)	0.5	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)	0.32	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	0.8	mg/l	Max. 10

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Technical Manager
Greenzone, Digboi
Technical Manager (Protim Hazarika)

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TEST REPORT

Report No: TE/24/04/00014

Sample ID No: GZ/TE-429/24

Date of Report: 12/04/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Downstream of Tirap River (Tirap OCP)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 05/04/2024	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	34	mg/l	100
3.	Particulate size of suspended solids	< 20	Micron	Shall pass 850 Micron IS sieve
4.	pH	5.8	--	5.5-9.0
5.	Temperature	24<2°of Ambient Temperature	°C	Shall not exceed 5°c above the receiving water temperature
6.	Oil & Grease	1.3	mg/l	Max. 10
7.	Total residual chlorine	Nil	mg/l	Max. 1.0
8.	Ammonical Nitrogen as N	1.0	mg/l	Max. 50
9.	Total Kjeldahl Nitrogen(NH ₃)	5.2	mg/l	Max. 100
10.	Free ammonia (NH ₃)	Nil	mg/l	Max. 5.0
11.	Biochemical Oxygen Demand	6.4	mg/l	Max. 30
12.	Chemical Oxygen Demand	28.0	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)	0.002	mg/l	Max. 3.0

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20.	Zinc(Zn)	0.0168	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)	0.8	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)	0.36	mg/l	Max. 3.0
31.	Vanadium (V)	BDL	mg/l	Max. 0.2
32.	Nitrate Nitrogen	1.2	mg/l	Max. 10



Reviewed and Authorized By:


Technical Manager
Greenzone, Digboi
Technical Manager(Protim Hazarika)

NOTE:

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2. Results refer only to the particular parameters tested.
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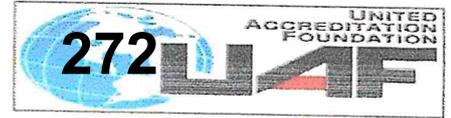
**** End of Report ****



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Pollution Control Board, Assam



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TIPONG Colliery
JAN 2024

TEST REPORT

Report No: DW/24/01/00044

Sample ID No: GZ/DW-214/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam	
Sample Description	Type: Drinking Water	Source: Tube-well Water of Sipegaon (Tipong Colliery)
Sample collected by	Greenzone Representative	
Sample Collection Particulars	Date - 28/01/2024	Analysis Protocol: IS-3025

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
01	Colour (Hazen Units)	1	Hazen Units	5	15	IS:3025, Part 4
02	Odour	Odourless	--	Agreeable	Agreeable	IS:3025, Part 5
03	Turbidity, NTU	0	NTU	Max 1	Max 5	IS:3025, Part 10
04	pH	6.6	--	6.5 - 8.5	No Relaxation	IS:3025, Part 11
05	Total Hardness (as CaCO ₃),	49.1	mg/l	Max 200	Max 600	IS:3025, Part 21
06	Iron (as Fe)	0.28	mg/l	Max 0.30	No Relaxation	IS:3025, Part 53
07	Chloride (as Cl)	5.3	mg/l	Max 250	1000	IS:3025, Part 32
08	Free Residual Chlorine	BDL (MDL:0.1)	mg/l	Min 0.2	1	IS:3025, Part 26
09	Fluoride (as F)	BDL (MDL:0.01)	mg/l	Max 1.0	Max 1.5	IS:3025, Part 60
10	Total Dissolved Solids	159.0	mg/l	Max 500	Max 2000	IS:3025, Part 16

* BDL : Below Detection Limit , MDL: Minimum Detection Limit

* Limits as per Drinking Water Standard IS 10500:2012

Analyzed By:



Chief Chemist (D.N.D. Choudhury)

Reviewed and Authorized By:

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

NOTE:

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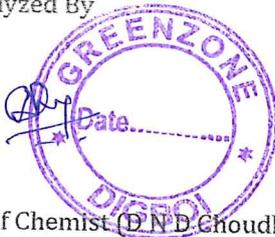
AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

SL No.	Parameters	Results	Unit	*Requirement (Acceptable Limits)	*Permissible Limit in the absence of Alternate Source	Method of Test
11	Calcium (as Ca)	27.4	mg/l	Max 75	Max 200	IS:3025, Part 40
12	Magnesium (as Mg)	19.4	mg/l	Max 30	Max 100	IS:3025, Part 46
13	Sulphate (as SO ₄)	8.4	mg/l	Max 200	Max 400	IS:3025, Part 24
14	Nitrate (as NO ₃)	0.4	mg/l	Max 45	No Relaxation	IS:3025, Part 34
15	Phenolic Compound C ₆ H ₅ OH	BDL (MDL:0.001)	mg/l	Max 0.001	Max 0.002	IS:3025, Part 43
16	Total Arsenic (as As)	BDL (MDL:0.01)	mg/l	Max 0.01	Max 0.05	IS:3025, Part 37
17	Lead (as Pb)	BDL (MDL:0.01)	mg/l	Max 0.01	No Relaxation	IS:3025, Part 47
18	Total Alkalinity (as CaCO ₃)	22.0	mg/l	Max 200	Max 600	IS:3025, Part 23

*BDL: Below Detection Limit, MDL: Minimum Detection Limit

*Limits as per Drinking Water Standard IS 10500:2012

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Pulakesh
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

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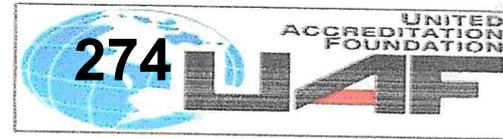
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TEST REPORT

Report No: TE/24/01/00038

Sample ID No: GZ/TE-339/24

Date of Report: 07/02/2024

Contract No-GEMC-511687745288609 Dtd-14/04/2023

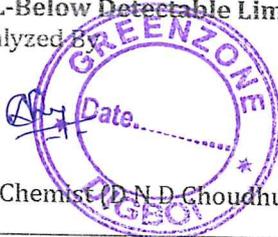
Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Russian Colony River (Tipong Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 28/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	4 HU & Odourless	---	--
02	Suspended Solids	50.0	mg/l	100
03	Particulate size of suspended solids	27 Micron	--	Shall pass 850 Micron IS sieve
04	pH	5.9	--	5.5-9.0
05	Temperature	20°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.8	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.8	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	15.6	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	11	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	31	mg/l	Max. 250

**BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D.N.D.Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

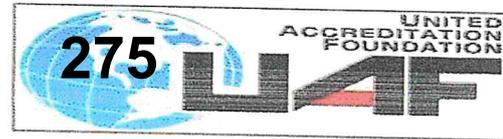
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13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr +6)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.004	mg/l	Max. 2.0
19	Copper (as Cu)	0.007	mg/l	Max. 3.0
20	Zinc (as Zn)	0.152	mg/l	Max. 5.0
21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.07	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.7	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.45	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.6	mg/l	Max. 10

**BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D N D Choudhury)

Reviewed and Authorized By:

Jiten Gogoi
Lab. Director
Greenzone, Digboi

Lab Director(Jiten Gogoi)

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** End of Report **

AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: TE/24/01/00037
Sample ID No: GZ/TE-338/24

Date of Report: 07/02/2024
Contract No-GEMC-511687745288609 Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181,Dist. Tinsukia ,Assam		
Sample Description	Type: Surface Water	Source: Up-Stream Tipong River (Tipong Colliery)	
Sample collected by	Greenzone Representative		
Sample Collection Particulars	Start Date 28/01/2024	Quantity Drawn : 3 L	

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per GSR 422(E).19.05.1993 & 31.12.1993
01	Colour and Odor	3 HU & Odourless	---	--
02	Suspended Solids	41.0	mg/l	100
03	Particulate size of suspended solids	25 Micron	--	Shall pass 850 Micron IS sieve
04	pH	6.3	--	5.5-9.0
05	Temperature	19°C	°C	Shall not exceed 5°C above the receiving water temperature
06	Oil & Grease	1.6	mg/l	Max. 10
07	Total residual chlorine	BDL	mg/l	Max. 1.0
08	Ammonical Nitrogen as N	1.8	mg/l	Max. 50
09	Total Kjeldahl Nitrogen (as NH ₃)	12.8	mg/l	Max. 100
10	Free ammonia (as NH ₃)	BDL	mg/l	Max. 5.0
11	Biochemical Oxygen Demand (as BOD)	13	mg/l	Max. 30
12	Chemical Oxygen Demand (as COD)	28	mg/l	Max. 250

**BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D. N. D. Choudhury)

Reviewed and Authorized By:

Jiten Gogoi Lab. Director
Greenzone, Digboi

Lab Director (Jiten Gogoi)

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AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

13	Arsenic (as As)	BDL	mg/l	Max. 0.2
14	Mercury (as Hg)	BDL	mg/l	Max. 0.01
15	Lead (as Pb)	BDL	mg/l	Max. 0.1
16	Cadmium (as Cd)	BDL	mg/l	Max. 2.0
17	Hexavalent Chromium (as Cr +6)	BDL	mg/l	Max. 0.1
18	Total Chromium (as Cr)	0.007	mg/l	Max. 2.0
19	Copper (as Cu)	0.005	mg/l	Max. 3.0
20	Zinc (as Zn)	0.129	mg/l	Max. 5.0
21	Selenium (as Se)	BDL	mg/l	Max. 0.05
22	Nickel (as Ni)	BDL	mg/l	Max. 3.0
23	Cyanide (as CN)	BDL	mg/l	Max. 0.2
24	Fluoride (as F)	0.06	mg/l	Max. 2.0
25	Dissolved Phosphates (as P)	0.8	mg/l	Max. 5.0
26	Sulphide (as S)	BDL	mg/l	Max. 2.0
27	Phenoile Compounds (as 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 (as Mn)	BDL	mg/l	Max. 2.0
30	Iron (as Fe)	0.57	mg/l	Max. 3.0
31	Vanadium (as V)	BDL	mg/l	Max. 0.2
32	Nitrate Nitrogen	1.4	mg/l	Max. 10

**BDL-Below Detectable Limit

Analyzed By



Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

Lab. Director
Greenzone, Digboi

Lab Director(Jiten Gogoi)

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** End of Report**



M/s. GREENZONE

Recognised By
Pollution Control Board, Assam



AN ISO 9001:2015 & ISO 45001:2018 CERTIFIED LAB

TEST REPORT

Report No: AAQ/24/01/00048

Date of Report: 10/02/2024

Sample ID No: GZ/AAQ-225/24

Contract No-GEMC-511687745288609, Dtd-14/04/2023

Name & Address of Client	NORTH EASTERN COALFIELDS COAL INDIA LIMITED, Margherita-786181, Dist. Tinsukia, Assam			
Sample Description	Type: Ambient Air Sample	Source: Chali Power House (Tipong Colliery)		
Sample collected by	Greenzone Representative			
Sample Collection Particulars	Start Date 30/01/2024	End Date 31/01/2024	Ambient Temperature 20°C	Analysis Protocol: IS 5182

ANALYSIS REPORT

Sl. No.	Parameters	Results	Units	Limit as per NAAQS:2009
01	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	22.3	µg /m ³	60 (24 Hours Average)
02	Particulate Matter (size less than 10 µm) PM ₁₀	55.4	µg /m ³	100 (24 Hours Average)
03	Sulphur Dioxide (as SO ₂)	10.3	µg /m ³	80 (24 Hours Average)
04	Nitrogen Dioxide (as NO ₂)	21.6	µg /m ³	80 (24 Hours Average)
05	Ozone (as O ₃)	BDL[MDL:1.0]*	µg /m ³	100 (8 Hours Average)
06	Lead (as Pb)	BDL[MDL: 0.01]*	µg /m ³	1.0 (24 Hours Average)
07	Carbon Monoxide (as CO)	BDL[MDL:0.01]*	mg /m ³	4.0 (1 Hours Average)
08	Ammonia (as NH ₃)	BDL[MDL:5.0]*	µg /m ³	400 (24 Hours Average)
09	Benzene (as C ₆ H ₆)	BDL[MDL: 0.01]*	µg /m ³	5.0 (Annual Average)
10	Benzo(a)Pyrene (as BaP)- Particulate Phase Only	BDL[MDL: 0.1]*	ng /m ³	1.0 (Annual Average)
11	Arsenic (as As)	BDL[MDL: 0.01]*	ng /m ³	6.0 (Annual Average)
12	Nickel (as Ni)	BDL[MDL: 0.01]*	ng /m ³	20 (Annual Average)

BDL : Below Detection Limit , MDL: Minimum Detection Limit

NAAQS-National Ambient Air Quality Standard

Remarks: NIL

Analyzed By

[Signature]
Date:

Chief Chemist (D.N.D Choudhury)

Reviewed and Authorized By:

[Signature]
Quality Manager
Greenzone, Digboi

Quality Manager(Pulakesh Dung)

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****End of Report****

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2176
ANNEXURE A-2**279****NORTH EASTERN COALFIELDS**

नार्थ ईस्टर्न कोलफिल्ड्स

COAL INDIA LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

P.O. MARGHERITA - 786 181 (ASSAM)

PHONE : (03751) 220329

220339

FAX : 03751 - 220354

TELEGRAM : COALASSAM

email : gmmrg1@sancharnet.in

Ref. No. L.No. BG/3/ /10
DT: 014/10/373

Date. 09/07/10

Baragolai Colliery

From:-

The Owner,
Baragolai Colliery,
North Eastern Coal-
fields,
Coal India Limited
P.O. Margherita (786181)
Dist. Tinsukia (Assam)

To

The Dy. Director General of Mines Safety,
Eastern Zone, Sitarampur,
P.O. Sitarampur (713359)
Dist. Burdwan (West Bengal)

Sub:- Closing of Baragolai Colliery, North Eastern Coalfields, CIL,
-Submission of two true copies of abandoned mine plans under
Reg. 61(1) of the Coal Mines Regulation, 1957-Reg.

Ref:- Notice Letter No. BG/3/724/10 dt. 14.05.2010.

Dear Sir,

Reference to the above, we have sealed Baragolai Colliery of North Eastern Coalfields, CIL on 24.06.2010. The persons working in the mine are in the process of transferring to different mines/ deptt., other subsidiaries of Coal India Limited, and nobody is effected by closure of this mine.

Further, I am enclosing herewith duly filled in proforma DGMS/AMP/I alongwith two true copies of mine plans as required under DGMS circular (Legislation) 1 & 2 of 1987 and Reg. 61(1) of Coal Mines Regulation, 1957 respectively.

Thanking you,

Encls:- 1. Form No. DGMS/AMP/I
2. Two true copies of update abandoned mine plans.

Yours faithfully,

(Signature)
(N.C. JHA)
Director (Tech), CIL &
Owner, Baragolai
Colliery,
NEC, CIL.

c.c. to:-

1. The Director General of Mines Safety, for kind information, GOVT. of India, Ministry of Labour, Dhanbad, Jharkhand - 826001.
2. The Director of Mines Safety, GOVT. of India, Ministry of Labour, Guwahati Region, Camp - Digboi.
3. The Chief General Manager, NEC, CIL.

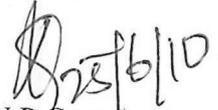
(Enclosure to DG's Technical instruction No.2 of 1987)

Mines Act 1952	Part -1	DGMS/AMP/I
(to be filled up by the owner, Agent or Manager of the mine)		
1. Name of the mine		Baragolai Colliery
2. Mineral worked		Coal
3. Part of the mine abandoned or discontinued.		Baragolai Colliery – Abandoned
4. Situation of the mine		
i) Mouza		Makum
ii) Post office		Margherita
iii) P.S (Thana)		Margherita
iv) Dist		Tinsukia
v) State		Assam
5. (a) Name of the owner at the time of abandonment.		Sri N.C.Jha, Director (Tech), CIL
(b) Postal address of the owner at the time of abandonment.		Coal Bhawan, 10, Netaji Subhash Road, Kolkata-1
6. (a) Name of the Agent,(if any) at the time of the abandonment.		Sri Nepali Prasad Gupta.
(b) Address of the Agent		Baragolai Colliery, North Eastern Coalfields,P.O-Margherita -786181,
(c) Name of the Manager,(if any) at the time of the abandonment.		Sri Robin Thounaoja.
(d) Address of the Manager		Baragolai Colliery, North Eastern Coalfields,P.O-Margherita -786181,
7. (a) Name & Qualification of the surveyor who made the original plan (if more than one surveyors have signed the plan then name of the surveyor who has signed last may be given)		Sri Hemanta Lahon Coal Mines Surveyor's Certificate of Competency.
(b) The copies submitted		Two copies of polyster film.
8. Name & address of the person now in possession of the plan, a copy of which has been submitted.		Sri Nepali Prasad Gupta. Baragolai Colliery, North Eastern Coalfields,P.O-Margherita -786181,
9. Name of the coal seam, name of vein if any		60ft seam, 20ft seam & New seam.
10. Date last survey (the position of the working at the time to be shown by dotted line on the plan)		28.05.2010
11. Date of abandonment.		24.06.2010
12. Cause of abandonment.		REASONS FOR ABANDONMENT
-		Mine working stopped since 01.11.08 due to imposition of see 22(3) of mines act 1952
-		No suitable method to work the existing reserve for higher recovery & high productivity.
-		Abandonment of mine pumping station as it was unsafe.
-		High economical loss.

FMCP-Baragolai Colliery, NEC, CIL

13. Does the accuracy of the plan depend upon the magnetic meridian, if so, have proper allowances. Plans are prepared by National Grid System based on true north.
14. Does the plan show all the particulars/details required by Reg. 58,59(1), (b) and (c) and 61 of the CMR 1957/Reg.60,61(1) (b) (c) & (d) and 63 of the MMR, 1961? Yes
15. Has a tri junction pillar or other permanent mark of location been marked on the plan? Permanent revenue pillar marked on the plan after considering the same in mine survey.
16. Has the property been surrendered? If so, to whom? Give name & address. Not applicable.
17. i) Is there any history of fire or adjoining areas? There were incidents of spontaneous heating in 60ft gosh.
ii) Degree of gassiness of abandoned seam working and rate of emission of gas. Degree-III
Rate of emission -5 to 18%
18. Has any working been made after last survey of the mine? If so, whether the extent of such workings have been shown on the plan with suitable remarks. Working is not extended after last survey.
19. Is the plan accurate within the prescribed limits? Yes

Signature



(N.P. Gupta)

Agent Baragolai Colliery,
North Eastern Coalfields,
Coal India Limited
P.O-Margherita -786181,
Dist:-Tinsukia,(Assam)

Agent एजेंट

Baragolai Colliery

बरगोलाई कलियरी

NEC/CIL एन.इ.सी./सी.आई.एल.

2179

PART-II

282

(to be filled in at Regional/Zonal office)

- 1. Remarks of Dy. Director/Director who conducted the enquiry:
 - i) Date of enquiry
 - ii) Place where enquiry was conducted.
 - iii) Full name and status of person who attended the enquiry
 - iv) Name & designation of the person who made the corrections/amendments
 - v) Whether the plan is true copy of original plan and show the position of all the working.
 - vi) Any other information of (supplementary remarks about item No.12,13,15 in particulars be given)

Date:

Signature
Director/ Dy. Director of Mines Safety.

Recommendation of Director of Mines Safety.

Date :

Signature
Director/ Dy. Director of Mines Safety.

Order of Dy. Director-General of Mines Safety.

Date:

Signature
Dy. Director-General of Mines Safety

Safety

Note of one copy each of A.M.Plan and form DGMS/AMP/I is to be retained in Zonal office and copy each of A.M.Plan and form DGMS/AMP/I is to send at H.O for record.

- i) Records in zonal office A.M.Plan record register on page..... with SI No.....

Signature Head Surveyor /Surveyor with date

Signature Staff office with date

- ii) Recorded in H.O A.M.Plan record register on page..... with SI No.....

Signature Head Surveyor (H.Q) with date

Signature Survey Supdt. (H.Q) with date



// TRUE COPY//

FIRST SCHEDULE

FORM 1

ANNEXURE A-3

(See Regulations 3,6,7,8)

283

(Notice of Opening, Closing or Change of name)

From:

Agent,
Baragolai Colliery,
North Eastern Coalfields,
Coal India Limited,
P.O. Margherita(786181)
Dist. Tinsukia(Assam).

To

1. The Chief Inspector of Mines in India, Dhanbad E.Rly.
2. Regional Inspector of Mine, Camp: Digboi, P.O. Digboi(786171)
3. District Magistrate, Rangagora Road, P.O. Tinsukia(786125)
Dist. Tinsukia(Assam).

Sir,

I have to furnish the following particulars in respect of closing, Baragolai Colliery at North Eastern Coalfields, Coal India Limited, Margherita.

-
1. In case of change of name of mine:

Old name of mine	Date of change	N.A
------------------	----------------	-----
 2. (a) Situation of the mine

Village-Baragolai, Police Station - Margherita.	
Sub-Division(Taluq) Margherita.	
District:Tinsukia.	State - Assam.

 (b) In case of a new mine,

Particulars of situation of mine;	
Post office	Telegraph office
Railway station	Rest House
(Give distance therefrom)	Means of travelling
	N.A
 3. (a) Name and postal address of:

Present	Previous	
(i) Owner -	D(T),CIL	D(T),CIL
(ii) Managing agent, if any -	CCM/CM	CCM/CM
	MEC,CIL	MEC,CIL
(iii) Agent, if any	- Sri K.P.Gupta	Sri S.S.Gagar
	Baragolai	Tipong Colliery,
	Colliery	P.O.Tipong
	P.O.Margherita.	Assam.
	Assam.	
(iv) Manager	- Sri R.Thounaoja.	Sri S.P.Dutta.
	Baragolai Colliery.	C.C.L.
	P.O. Margherita	
	Assam.	
 - (b) In case of change, date of change - N.A
-
4. Name and qualification etc. of Manager/Under Manager/Assistant Manager/Safety officer/Ventilation officer/Engineer/Surveyor whose appointment is terminated/who is appointed. N.A
-
- (b) Date of appointment/termination of appointment N.A
-
5. Date on which it is intended to open/reopen/abandon/~~discontinue~~ the mine 24.05.2010
-
6. Actual date of opening/re-opening/abandonment/~~discontinuance~~ of the mine. 24.05.2010
-

Yours faithfully,

Signature:

Designation: Owner/Agent, Baragolai Colliery

Date:

//TRUE COPY//

Baragolai Colliery
 বারগোলাই কলিয়ারী



कोल इण्डिया लिमिटेड
Coal India Limited

भारत सरकार का उपक्रम
A Government of India Undertaking
एक महारत्न कंपनी A Maharatna Company

Area Office Tinsukia
J.E.G. Office Margherita
20/10/2021
Shri U. K. Mukherjee

Margherita-786 181 (ASSAM)

Registered office: Office of the General Manager, North Eastern Coalfields, Coal India Limited, Margherita, Dist:Tinsukia, Assam: 786 181.
Corporate ID No: L23109WB1973GO1028844, Phone No: 03751-220354, E-Mail:gmmrg1@sancharnet.in ,Website:www.neccoal.co.in
Letter No. 35/TPG/449/Agent(T) Date -24.09.2021

From
(Owner, Agent or Manager)

Name- Shri U. K Mukherjee, Agent Tipong Colliery
Postal address- Office of The Agent, Tipong Colliery,
Tipong, Tinsukia
Assam
PIN:786179

Mobile Number- 9531105665
Telephone Number (Landline) – 9435751360
Email Id- ukm_35@rediffmail.com

To,

1. The Chief Inspector of Mines/ The Director General of Mines Safety, DGMS, PO- Dhanbad- 826001 , Jharkhand.
2. The Regional Inspector of Mines/ The Director of Mines Safety, Guwahati Region, Guwahati, Ganesh Mandir path, PIN-781020. Assam.
3. The District Magistrate, Office of the District Magistrate, Post & Dist- Tinsukia, Assam.

Through :- General Manager, NEC, Margherita

Sub Form 1-C- Notice of closure/ abandonment
(See Regulation 5, CMR-2017)

Dear Sir,

It has been decided to close/abandon Tipong Colliery of North Eastern Coalfields, Coal India Ltd, Post – Tipong, Dist.- Tinsukia, Assam.

As such Notice of Closure / abandonment in Form 1-C as per Regulation 5, CMR-2017 is here by submitted for kind perusal and consideration please.

This is for your kind information and perusal please.

Thanking you,

Enclosed: Form 1-C

Your faithfully,
Agent
Tipong Colliery

CC. To - Area Safety Officer (ASO, NEC)

File-TIPONG

24/09/2021

Form 1-C
Notice of closure/ abandonment
(See Regulation 5, CMR-2017)

From

(Owner, Agent or Manager)

Name- Shri U. K Mukherjee, Agent Tipong Colliery**Postal address-** Office of The Agent, Tipong Colliery,
Tipong, Tinsukia
Assam
PIN:786179**Mobile Number-** 9531105665**Telephone Number (Landline)** – 9435751360**Email Id-** ukm_35@rediffmail.com

To,

- 1 The Chief Inspector of Mines/ The Director General of Mines Safety, DGMS, PO- Dhanbad- 826001 , Jharkhand.
- 2 The Regional Inspector of Mines/ The Director of Mines Safety, Guwahati Region, Guwahati, Ganesh Mandir path, PIN-781020. Assam.
3. The District Magistrate, Office of the Magistrate, Post & Dist- Tinsukia, Assam.
 1. Name of the mine: Tipong Colliery
 2. Name of the owner/ company/ firm/ association:

SRI BINAY DAYAL, DIRECTOR TECHNICAL, CIL
 COAL BHAWAN, 4 MAR, PLOT NO. AF-III,
 ACTION AREA-IA,
 NEW TOWN, RAJARHAT, KOLKATA, SOUTH,
 24 PARAGANAS
 WEST BENGAL-700156

3. Location of the mine

Lease number(s): Tipong Colliery (UG): 4.48 Sq mile mining lease- 1158.46 Ha. (Lekhapani- Tipong pani ML),

Village/ area/ road: Tipong

Post Office: Tipong

Police Station: Lekhapani

Sub-Division (Taluk)/ Tehsil: Margherita

Railway Station (nearest): Ledo

District: Tinsukia

State: Assam

PIN: 786179

4. Labour Identification Number (LIN) : 1-8018-8176-1

5. Mine Code: 010126

6. Details of Owner, Agent, Manager:

Sl. No.	Particulars	Owner	Nominated Owner	Agent	Manager
i.	Name		SRI BINAY DAYAL	SRI U. K MUKHERJEE	SRI U. K MUKHERJEE
ii.	Father's Name		SRI BRAHMESHAR PRASAD	LT. LM MUKHERJEE	LT. LM MUKHERJEE
iii.	Aadhaar No.		-	681-579-877733	681-579-877733
iv.	Address		DIRECTOR	Village/ area/ road:	Village/ area/ road:

24/09/2021

2183

286

Village/ area/ road: Post Office: Police Station: Sub- Division: Railway Station: District: State: PIN:	TECHNICAL, CIL, COAL BHAWAN, 4 MAR, PLOT NO. AF-III, ACTION AREA-IA, NEW TOWN, RAJARHAT, KOLKATA, SOUTH 24 PARAGANAS WEST BENGAL- 700156	Tipong Post Office: Tipong Police Station: Lekhapani Sub-Division (Taluq)/ Tehsil: Margherita Railway Station (nearest): Ledo District: Tinsukia State: Assam PIN: 786179	Tipong Post Office: Tipong Police Station: Lekhapani Sub-Division (Taluq)/ Tehsil: Margherita Railway Station (nearest): Ledo District: Tinsukia State: Assam PIN: 786179
v. Mobile Number	-	+919531105665	+919531105665
vi. Telephone Number	(Landline) – 033- 23244024/ 4088	+919435751360	+919435751360
vii. Fax Number	033- 23244082		
viii. e-mail id	dt.cil@coalindia.in	ukm_35@rediffmail.com	ukm_35@rediffmail.com

7. Date on which it is intended to close/ abandon the mine: **27.10.2021**- Mine closing activity likely to be started after 1 (one) month notice period (wef.24.09.2021)as per statute to intend to close the mine as per order / instruction from the competent authority
8. Actual date of closure/ abandonment : (DD/ MM/ YYYY)-To be communicated after completion of closure/ abandonment of the mine
9. Number of Persons likely to be affected:138(anticipated minimum man power requirement after abandonment of the mine will be - 21 out of 138 and the 117 employees to be transferred to another unit of North Eastern Coalfields and other subsidiaries of Coal India Limited)
10. Reason for closure /abandonment*:
Suitable mining method for liquidation / extraction of existing coal reserve is not available due to unique geo-mining conditions.
11. Updated plan enclosed as required under Regulation 66 of CMR, 2017-Yes/ No- enclosed -i). U/ G Working plan, ii) Cross Section ,iii) Seam section. Rest of the plans and sections as per Regulation-66 of CMR-2017 will be sent after actual closure/abandonment.
If yes, please specify the Plan(s) reference number (s)-i) U/G working plan , Ref No. TPG/SUR/01/2021 U/G Date 24.09.2021 ii) Cross section ,Ref No TPG/SUR/02/2021 Date 24.09.2021 iii) Seam Section, Ref No TPG /SUR/03/2021 Date 24.09.2021.

N.B: After submission of notice in Form 1-C,under Regulation 5, CMR2017 salvaging operation of all Plant & Machinery items and other assets (underground & surface), dewatering of mine sumps (underground) will be operational till mine abandonment.

Instructions

*delete whichever is not applicable

** Optional

Yours Faithfully

Signature:

Designation: Owner/ Agent/ Manager

Date:

//TRUE COPY//

24/9/2021
M.S. D.L. / 09 3. 01. 01. 02. 07

2184

Archit Jain <archit.jain@iglawoffices.com>

Service in O.A 19/2014 and M.A 1027/2015 in the matter of "Dr. Kashmira Kakati v. Union of India & Ors" on behalf of Respondent No.8 Coal India Limited before the Hon'ble National Green Tribunal

1 message

Archit Jain <archit.jain@iglawoffices.com>

Tue, Jul 16, 2024 at 7:14 PM

To: admin@eldfindia.com

Cc: Ishaan George <ishaan.george@gmail.com>, Vishnu Menon <menon.vishnu31@gmail.com>

Respected Ma'am

Please find the Updated Compliance Report on behalf of Respondent No.8 i.e Coal India Limited.

The service is being effected on you in compliance with the Order dated 08.04.2024 of the Hon'ble National Green Tribunal.

Please treat this as service and kindly acknowledge the same.



Updated Compliance Report NGT R8.pdf

Kind Regards,

ARCHIT JAIN

Advocate

Office of Ishaan George, Advocate-on-Record

Supreme Court of India

Off- A-62, First Floor, Defence Colony, New Delhi-110024

Mob- 9636698887, 8800153770

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