

ENVIRONMENTAL MONITORING REPORT

FOR



G L CHOUDHURY COLLEGE
BARPETA ROAD, BARPETA, ASSAM-781315

Conducted By



ENVIRO-TESTING-SERVICES
NOONMATI, GUWAHATI-781020, ASSAM
MAY -2023

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May-2023

01	17-06-2023	Issued For G. L. Choudhury College Barpeta Road, Barpeta, Assam-781315		
No.	Date	Description	Checked	Approved
ETS, ENVIRO-TESTING-SERVICES Guwahati		A Report on Environmental Monitoring		
			Job No. : ETS/GLC/EMR/01 dated 19/06/2023 Doc: Final Report	



ETS-GUWAHATI

ENVIRO-TESTING-SERVICES

Accredited by SPCB Assam, ISO 9001, ISO 45001, MSME

Bljoy Nagar, House No - 35, Noonmati, Guwahati - 781020, Assam

Telephone : 91(0) 3612551788, 919435492765, Email : envirotesting2011@gmail.com

Ref: ETS/GLC/EMR/01/2023

Date: 19th June 2023

COMPLETION CERTIFICATE

This is an Environmental Monitoring report compiled on the basis of field survey and field investigation of various environmental components such as Micro meteorological Quality, Ambient Air Quality, Soil Quality and Noise Quality.

The present work was carried out at the request of the Principal, G L Choudhury College, Barpeta Road, Assam-781315 vide order number GLC /Environmental Monitoring /Invitation/2023 Dated 18.04.2023. The findings of the study carried out during the period of May 2023 are presented in this report. All the Analysis of Environmental Quality Parameters is done at the laboratories of Enviro Testing Services, Noonmati, Guwahati. The Laboratory is duly recognised by State Pollution Control Board, Assam, ISO 9001 :2015; ISO 45001:2018 and MSME.

For Enviro Testing Services



(Dr. Hrishikesh Sarma)
Ex. Director, ETS, Guwahati

Date: 19.06.2023



ETS-GUWAHATI

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ACKNOWLEDGEMENT

Environmental Assessment Team thanks Dr. Dr. Jaya Biswas Kunda, Principal, G L Choudhury College for assigning this important work of Environment Monitoring. We appreciate the cooperation to us for completion of the study.

Our special thanks go to the faculty of G L Choudhury College:

Mr. Kalyan Ch. Talukdar, Coordinator, IQAC.

Dr. Jyotismita Dutta, Asst. Prof. Dept. of Botany

We are also thankful to other staff members who were actively involved while collecting the data and conducting field survey

Date: 19.06.2023

For Enviro Testing Services



(Dr. Hrishikesh Sarma)
Ex. Director, ETS, Guwahati

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1.0 Introduction of the Institute

G L Choudhury College is one of the premier institutions in lower Assam. The college was established in 1990. The building and the infrastructural facilities are a reflection of the utmost sacrifice and inspiration of Late Mohan Lal Choudhury, the donor. Apart from the Late Choudhury, this institution has bloomed into a popular academic institution for higher education owing to the laborious and undaunted contributions of some prominent citizens and educationists.

Undoubtedly it is one of the prominent academic nerve centers for the students of Barpeta Road and its adjoining areas. It has produced a lot of Arts Graduates till date. Some of them have shined exceptionally well and are holding responsible jobs in different disciplines. While some others have shone excellently in business. In keeping with the tradition, G.L. Choudhury College has always encouraged a cosmopolitan culture that embraces within its bosom students from all the castes, creeds and communities coming from the surrounding areas and every nook and corners of the state as well.



2.0 Objective of the Study

The Environmental Monitoring work of G L Choudhury college campus is carried out with the following principle objectives

- (i) Present status of Micro meteorology,
- (ii) Ambient air Quality
- (iii) Noise Quality, and
- (iv) Soil Quality

3.0 Methodology

Methodology includes

- (i) Physical inspection of the campus
- (ii) Collection of various environmental samples
- (iii) Data analysis

4.0 Present Environmental Status

4.1 Present status of Micrometeorology,

Monitoring Station	Date	GPS Coordinate	
Micrometeorology	20.05.2022	N 26.494155°	E 90.968132°

Table 1: Micrometeorological Study at G L Choudhury College

S/N	Parameters	Unit	Metrological Data	
1	Temperature	°C	Min	23
			Max	34
2	Relative Humidity	%	10.30am	83
			16.30pm	74
3	Wind Speed	Km/hr	10.30am	3.2
			16.30pm	2.4
4	Wind Direction	-	10.30am	W
			16.30pm	SW

3.2 Ambient Air Quality

The average results obtained in the month of May 2023 at G L Choudhury College are presented in Tables 2.

Monitoring Station	Date	GPS Coordinate	
Ambient Air Quality	20.05.2023	N 26.494155 ^o	E 90.968132 ^o

Table 2: Ambient Air Quality at G L Choudhury College

AMBIENT AIR QUALITY						
Duration (24 Hour)			Average			
S/N	Parameters	Unit	Concentration	Limit	Weather Condition*	Test Method
1	Particulate Matter (PM10)	µg/m ³	71.2	100	Clear	IS5182(23)
2	Particulate Matter (PM2.5)	µg/m ³	48.6	60		CPCB Guideline
3	Sulphur Dioxide (SO ₂)	µg/m ³	9.8	80		IS5182(2)
4	Nitrogen Dioxide(NO ₂)	µg/m ³	12.6	80		IS5182(vi)
5	Ammonia (NH ₃)	µg/m ³	8.4	400		Indophenol Blue Method
6	Hydrocarbon (HC)	mg/m ³	0.36	-		CPCB Guideline
7	Carbon Monoxide (CO)**	mg/m ³	0.41	04		CPCB Guideline

** Carbon Monoxide (CO) Limit is One Hour Average

The Parameters Monitored and analyzed on the specific date are found to be within the **National Ambient Air Quality Standards (NAAQS)**

3.3 Noise Quality study

In the present study, the noise level measurements were recorded using a precision sound level meter (Envirotech SLM100) with a measuring range between 0-150 dB. The instrument is calibrated before the measurements are recorded. The microphone was placed at 1.0 m from the facades of house, away from any reflecting surface and 1.2 m above the ground. In each location, adequate number of samples was taken at 10-minute intervals. The noise levels were recorded during day time and meteorological conditions: no wind no rain.

Table 3: Noise Quality at G L Choudhury College

S/N	Locations	GPS Co-ordinate		Daytime SPL(dB) [6 am to 10 pm]		CPCB Limit SPL(dB)
				Leq	Range	
1	College Main Gate	N 26.494392°	E 90.96976°	66.8	56.3-71.4	75
2	Near Principal Office	N 26.494092°	E 90.969996°	49.7	40.2-53.3	
3	Near Science Block	N 26.494004°	E 90.969613°	60.1	49.6-67.1	
4	Near MLC Statue	N 26.493727°	E 90.969528°	55.4	53-67.2	
5	Playground	N 26.493903°	E 90.969129°	61.3	54.6-70.1	
6	Near Library	N 26.49366°	E 90.969539°	60.4	51.8 – 68.3	

The Noise Level Monitored (Table 3) and analyzed is found to be within the CPCB Prescribed Limit

3.4 Quality of Soil in the Study Area

Soil sample is collected from the college campus as follows.

Sr.No.	Sampling Locations	GPS Co-ordinate	
1	Near Garden Area	N 26.49366°	E 90.969539°

It was analyzed for the most relevant physical and chemical parameters. It may be noted from the results of analysis that of the soil sample have slightly acidic pH. The presence of N, P, K and organic matter content is considerable.

Table 4: Results of Soil Quality Monitoring at G L Choudhury College

S/N	Parameters	[S1]
1	PH (1: 2)	6.8
2	Conductance (ms)	0.42
3	Sand (%)	86.2
	Silt (%)	1.4
	Clay (%)	12.4
4	Water Holding Capacity (%)	44.8
5	Bulk Density (gcm^{-3})	1.2
6	Cation Exchange capacity (meq/kg)	0.38
7	Nitrogen (%)	0.07
8	Potassium (mg/kg)	24.3
9	Sodium (mg/kg)	26.8
10	Calcium (g/kg)	18.6
11	Magnesium (mg/kg)	22.4
12	Phosphorous (mg/kg)	8.1
13	Organic matter (%)	0.68
14	Sodium Absorption Ratio (SAR)	1.7
15	Zinc (mg/kg)	16.2
16	Copper (mg/kg)	6.1



Meteorology and Ambient Air Monitoring at G L Choudhury College



Noise and Soil Sampling at different locations of the G L C College

Photographs of Environmental Monitoring at G L Choudhury College

This is to Certify that the Management System of
ENVIRO TESTING SERVICES

**BIJAY NAGAR, NOONMATI, GUWAHATI - 781020,
ASSAM, INDIA**

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope of operations:

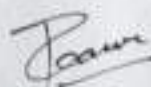
**ENVIRONMENTAL ASSESSMENT, MANAGEMENT AND
MONITORING FOR SOIL, WATER, AIR, FLORA
AND FAUNA.**

Certificate No.: 09110783A

<u>Date of initial registration</u>	<u>Date of this Certificate</u>	<u>Surv. audit on or before/ Certificate expiry</u>	<u>Recertification Due</u>
24 August 2022	24 August 2022	23 August 2023	23 August 2025

Accreditation

This Certificate remains valid subject to satisfactory surveillance audits.



Director



ICL/FM-001/REV06

For verifications and updated information concerning this present certificate visit to www.iclcert.com
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E-mail: info@iclcert.com Website: www.iclcert.com
Contact No. +91-9319332223



Certificate

This is to Certify that

ENVIRO TESTING SERVICES

Bijay Nagar, Noonmati, Guwahati - 781020,
Assam, India

has been found in Compliance with requirements of
Occupational Health and Safety Management Systems

ISO 45001:2018

for the following scope:

Environment Work Deals With Testing of Soil,
Water and Air.

Certificate No. : OHSMS/025225/1221
Original Certificate Date : 08-December-2021
Issue Date : 08-December-2021
Expiry Date : 07-December-2024

To check this certificate status visit:
<http://uas1.uk.com/certifiedorganization.html>

Authorised Signature

Quality Control Certification

UK Office: 1929, Chynoweth House,
Trevissome Park, Truro-TR46UN, Cornwall, UK

India Office: 2nd Floor, Aman Market,
Narela Mandi, Delhi - 110 040, India



*Quality Control Certification (QCC) accredited by "UASL, England, UK". This certificate remains the property of "QCC" to whom it must be returned on request.



Pollution Control Board, Assam

(Department of Environment & Forests, Government of Assam)

অসম প্ৰদূষণ নিয়ন্ত্ৰণ পৰিষদ

(অসম চনকানন বন আৰু পৰিবেশ বিভাগ)



No.WB/GUWT-2445/13-14/200

Dated Guwahati the 09th March, 2023

OFFICE ORDER

In exercise of the powers conferred under section 17(2) of the Water (Prevention & Control of Pollution) Act, 1974 and section 17(2) of the Air (Prevention & Control of Pollution) Act, 1981, the Pollution Control Board, Assam is pleased to renew the recognition of the Laboratory for a period of six (6) months in favour of **M/s. Enviro Testing Services, Bijoynagar, House No. 35, Noonmati, Guwahati-22, Kamrup (M), Assam** awarded vide Pollution Control Board, Assam order No. WB/GUWT-2445/13-14/198 dtd 19.02.2022. This Renewal of recognition is awarded subject to the following terms & conditions for the purpose of analyzing certain parameters discharged from the industries or any other institutions.

Terms & Conditions:

1. The recognition shall be valid till 08th September, 2023.
2. The recognition may be revoked or withdrawn subject to the violation of the following conditions :-
 - i. The laboratory shall carry out analysis only for the parameters authorized by the Board as mentioned in the certificate of approval.
 - ii. The laboratory shall carry out analysis of samples as per IS, APHA code of Federal Regulation and should specify the method in the analysis report.
 - iii. The laboratory will keep a proper record of receipt of samples, the reading of each and every parameter analyzed and calculation of results of all parameters on permanent register and will subject to inspect by the Board.
 - iv. The samples collected should be analyzed within seven (7) days from the date of collection and copy of the same along with the brief inspection report to be sent to Pollution Control Board, Assam.
 - v. The accredited laboratory will collect samples as required by the process, which will be divided in two parts. One part will be analyzed, while the other part will be preserved for thirty days. For air samples, the used thimbles and filter papers will be preserved for six (6) months so that the Board can check randomly and verify the credibility.
 - vi. The Board officials may visit laboratory for checking preserved samples at random.
 - vii. The Laboratory must submit information on whether ETPs/APCDs installed by the respective unit was running or not along with test report. At the time of collection samples by the Laboratory, all the processes of the unit should invariably be running. The analysis report should generally reflect site conditions and capacity at which the industry was running at the time of sampling.
 - viii. Records pertaining to inventory of the chemicals/ reagents shall be kept properly on a permanent register and will be subject to inspection by the Board.
 - ix. Laboratory will submit details of staff involved in sampling and testing and the person coming for collection of sample should have authority letter of Laboratory.
 - x. Any change in address, staff or other additions/ alterations in the facilities of the laboratory should immediately be reported to this office within fifteen (15) days.

Contd....p/2

৩১/৩/২৩

Head Office : Bamunimaidam, Guwahati - 781021, Assam : India.

Phone : 2652774 & 2550258 : Fax : 0361-2550259 : Gram : POLLUTIONCONTROL

E-mail : membersecretary@pcbassam.org; Website : www.pcbassam.org

Regional Offices at : Dibrugarh, Golaghat, Sibsagar, Tezpur, Guwahati, Bongaigaon, Nagaon & Silchar.



Pollution Control Board, Assam

(Department of Environment & Forests : : Government of Assam)

অসম প্ৰদূষণ নিয়ন্ত্ৰণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

-2-

- xi. Prior information is to be given to the concerned Regional Officers and Head Office for collection of sample and Regional Officers/Field Officer will associate during the sampling.
 - xii. The approval shall be suspended or cancelled if the Board has reason to believe that the data reported by the Laboratory is repeatedly erroneous. Further the Laboratory and its key personnel shall be liable to be proceeded against for imposition of penalty in case the Board has reason to believe that the data reported by the Laboratory is intentionally manipulated.
 - xiii. If it is found that the aforementioned Laboratory has any involvement with any of the industry against whom allegations have been made forging of Board's Authority, will result in withdrawal of recognition apart from other legal proceeding as provided under existing laws.
 - xiv. If the laboratory failed to achieve the satisfactory performance regarding testing of the coded samples supplied by the Pollution Control Board, Assam will result in withdrawal of recognition.
 - xv. The instruments/equipment should be always kept in working and perfectly calibrated condition.
 - xvi. The Laboratory has to submit a brief plan on safety measures undertaken for risk management pertaining to the work environment.
 - xvii. In legal matters, the analytical reports of the above laboratories will not be binding to the Board and such reports generated by the State Board will always prevail over.
 - xviii. Regarding compliance of occupiers, Board's analytical report and opinion will stand final over the reports and opinion of the aforesaid laboratory.
 - xix. Board will have every right to accept or reject the analytical and other reports submitted by the aforesaid laboratory without assigning any reason thereof.
 - xx. National Accreditation Board for Testing and Calibration Laboratories (NABL) is mandatory at the time of Next renewal of recognition i.e from the year 2023 onward.
3. This order will remain valid for six (6) month with effect from the date of issue of this order subject to the outcome of Hon'ble Gauhati High Court Order in WP(C)/8468/2018. But the said recognition may also be withdrawn at any time in case of violation of any of the aforementioned conditions or any of the conditions mentioned in Annexure-A(i) & (ii) or for any other unlawful activities, which are not proper under the law of the land.
4. This order has been passed as per the approval of the Competent Authority.


(Shantanu K) Dutta
Member Secretary

Memo No. WB/GUW/T-2445/13-14/200-A
Copy to: 2422

Dated Guwahati the 09th March, 2023

1. The ACES, Central Laboratory, PCBA for information and necessary action.
2. M/s. Enviro Testing Services, Bijoy Nagar, House No.35, Noonmati, Guwahati-22, Kamrup (M) for information and necessary action.

Member Secretary

LIST OF PARAMETERS MENTIONED BELOW:-

A. Water & Waste Water

SL No	Parameters	SL No	Parameters
1	pH	27	Ammonical Nitrogen
2	Temperature	28	TKN
3	TSS	29	Phosphate
4	Zinc	30	Iron
5	BOD	31	Lead
6	COD	32	Copper
7	Total Dissolved Solids	33	Nickel
8	Chloride	34	Cr (Total & Hexa)
9	Sulphate	35	Cadmium
10	Oil & Grease	36	Aluminium
11	Sodium	37	Manganese
12	Phenol	38	Arsenic
13	Odour	39	Insecticides
14	Turbidity	40	Total Acidity
15	Alkalinity	41	DO
16	Conductivity	42	Cobalt
17	Total Hardness	43	Vanadium
18	Calcium hardness	44	Molybdenum
19	Magnesium Hardness	45	Silver
20	Nitrate	46	Hydrazine
21	Sulphite	47	Barium
22	Fluoride	48	Colour
23	Residual Chloride	49	Anionic Detergent
24	Boron	50	Mercury
25	Free Ammonia	51	Selenium
26	Sulphide	52	Nitrite

B. Bacteriology & Bio-Assay

Sl. No	Parameters
1	Total Coliform
2	Fecal Coliform

C. Noise Parameter

Noise Level Monitoring - Noise in dB(A)

M. S. S. S.
 Addl. Chief Env. Scientist
 Pollution Control Board
 Bemunimaidam, Chennai

D. Ambient Air Parameters

Sl. No	Parameters	Sl. No	Parameters
1	Oxides of Sulphur	8	Benzene
2	Oxides of Nitrogen	9	Benzo (a) Pyrene
3	PM 10	10	Arsenic
4	PM 2.5	11	Nickel
5	Ozone	12	Total Hydrocarbon
6	Lead	13	Formaldehyde
7	Carbon Monoxide	14	Ammonia

E. Stack Parameters

Sl. No	Parameters	Sl. No	Parameters
1	Oxides of Sulphur	7	Nickel
2	Oxides of Nitrogen	8	Hydrogen Sulphide
3	Particulate Matter	9	Carbon Dioxide
4	Oxygen	10	Hydrogen Fluoride (HF)
5	Carbon Monoxide	11	Vanadium
6	Hydrochloric Acid Vapour & Mist (HCl)	12	Chlorine

F. Parameters For Soil Analysis

Sl. No	Parameters	Sl. No	Parameters
1	pH	9	Phosphorous
2	Soil Type	10	Manganese
3	Water Holding Capacity	11	Nitrogen
4	Iron	12	Sodium
5	Organic Matter	13	Potassium
6	Copper	14	SAR
7	Nickel	15	Boron
8	Chlorides	16	Zinc

G. Fugitive Emission (LEL-CH₄),

Light Intensity (Lux Meter),
VOC

H. Work Zone Monitoring**I. Waste Sludge Parameters (Non Hazardous & Hazardous)**

M. Jayaram
Addl. Chief Env.
Pollution Control
Chidambaram, Gu...



भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-AS-16-0015132

NAME OF ENTERPRISE

ENVIRO TESTING SERVICES

TYPE OF ENTERPRISE *

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	29/04/2023

MAJOR ACTIVITY

SERVICES

SOCIAL CATEGORY OF
ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	ENVIRO TESTING SERVICES

OFFICIAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	-	Name of Premises/ Building	BJJOY NAGAR,
Village/Town	Kamrup,	Block	-
Road/Street/Lane	NOONMATI,	City	Assam,
State	ASSAM	District	KAMRUP, Pin 781020
Mobile	9435732705	Email:	envirotesting2011@gmail.com

DATE OF INCORPORATION /
REGISTRATION OF ENTERPRISE

15/12/2001

DATE OF COMMENCEMENT OF
PRODUCTION/BUSINESS

15/12/2001

NATIONAL INDUSTRY
CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	70 - Activities of head offices; management consultancy activities	7010 - Activities of head offices	70100 - Activities of head offices	Services
2	70 - Activities of head offices; management consultancy activities	7020 - Management consultancy activities	70200 - Management consultancy activities	Services
3	71 - Architecture and engineering	7110 - Architectural and engineering	71100 - Architectural and engineering	Services

	activities; technical testing and analysis	activities and related technical consultancy	activities and related technical consultancy	
4	71 - Architecture and engineering activities; technical testing and analysis	7120 - Technical testing and analysis	71200 - Technical testing and analysis	Services
5	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities N.E.C.	74904 - Security consulting	Services

DATE OF UDYAM REGISTRATION

29/04/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

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For any assistance, you may contact:

1. District Industries Centre: DIC KAMRUP (ASSAM)

2. MSME-DFO: GUWAHATI (ASSAM)

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