


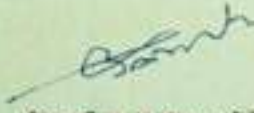


Date: 19/6/2023

## GREEN AUDIT CERTIFICATE

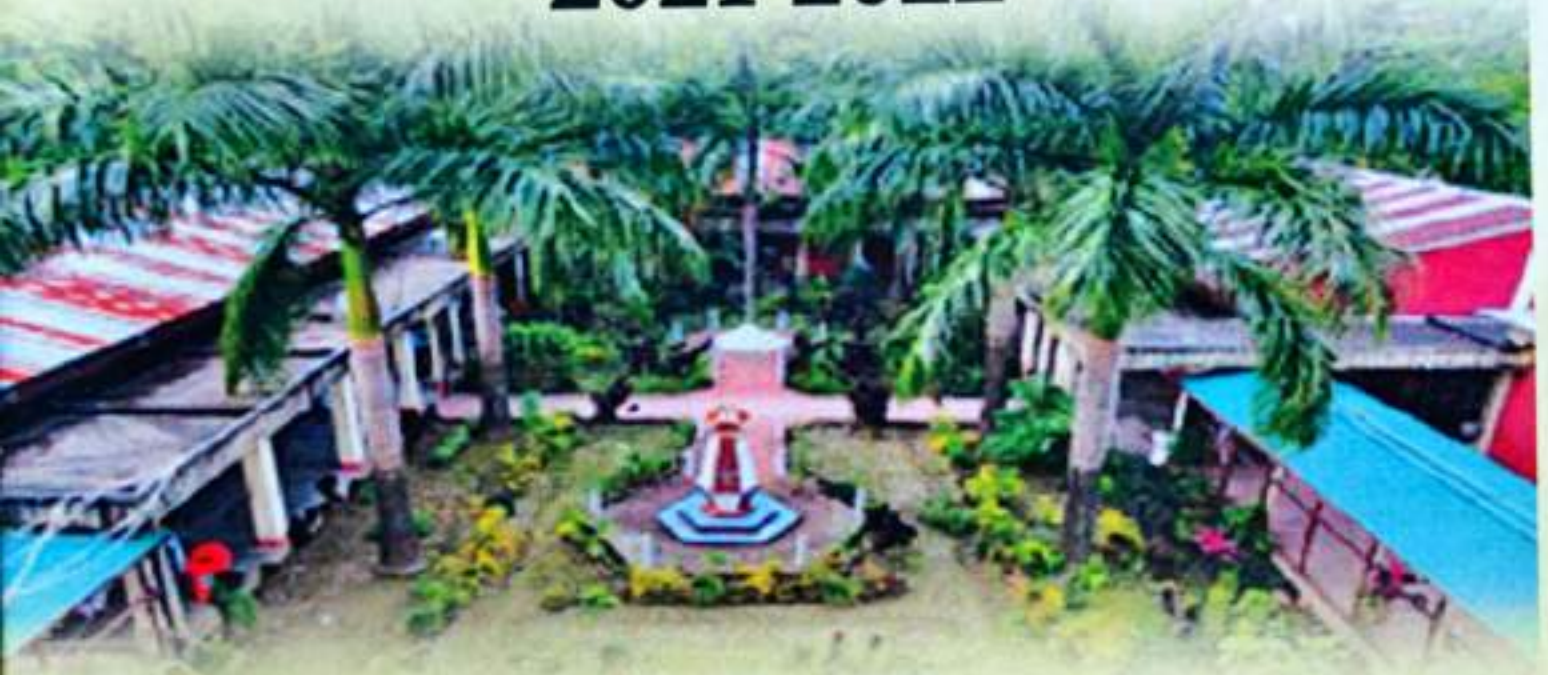
This is to certify that the **GANESH LAL CHOUDHURY COLLEGE, Barpeta Road, Assam** has conducted the Green Audit for the year **2021-2022** to highlight and to assess the impact of green initiatives for maintaining the campus eco-friendly.

  
(Dr. Jaya Biswas Kunda)  
Principal, Ganesh Lal Choudhury College  
Barpeta Road, Assam

  
(Prof. P. P Baruah)  
Chairperson, Green Audit committee  
Gauhati University



# **GREEN AND ENERGY AUDIT REPORT 2021-2022**



**GANESH LAL CHOUDHURY COLLEGE**  
Barpeta Road, Barpeta -781315, Assam

# **GREEN AND ENERGY AUDIT REPORT 2021-22**



**GANESH LAL CHOUDHURY COLLEGE**  
Barpeta Road, Barpeta -781315, Assam

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## **GL Choudhury College Green and Energy Audit-2022**

### **Audit Team**

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## ACKNOWLEDGEMENT

The recent disruptions in climatic activities have compelled human beings to think about the sustainable practices and policies to be adapted in every aspect of life. Considering the importance of a sustainable environment in the work place, the University Grants Commission of India has initiated a “Green Campus Clean Campus” mission for all higher educational institutions of the country and hence, the National Assessment and Accreditation Council (NAAC) perhaps made “Environmental Consciousness” as one of the mandatory criteria for grading educational institutes in India.

G L Choudhury College, Barpeta Road is therefore committed to create an ecologically sound campus by implementing few eco-friendly practices. The present report is the recent Green Audit Report of the College which looks forward to identify the environment related issues in the College campus and to monitor the environmental management practices adopted by the College. A few suggestions are also made accordingly to meet the gap areas for higher levels of environmental protection in the College campus and its vicinity. It is hoped that the report will certainly receive due attention of the concerned authority and the College shall implement the green practices whatever suggested for better future of all stakeholders of the G L Choudhury College, Barpeta Road.

Dr Jaya Biswas Kunda, Principal, G L Choudhury College, Barpeta Road deserves the appreciation for her initiative in conducting the Green Audit for the college. The Audit team is thankful to all the students, officiating members of Offices and faculty members of the college for their support and co-operation to compile and complete this report on time. Special thanks are due to all the members of Audit team of G L Choudhury College, Barpeta Road for their untiring support during the audit process in collating data for the report.

**Dr. Partha Pratim Baruah**

Auditor

G L Choudhury College Green Audit-2022

&

Professor, Department of Botany, Gauhati University,

Guwahati-781014, Assam

## ABOUT G L CHOUDHURY COLLEGE, BARPETA ROAD

G L Choudhury College, Barpeta Road was established at the heart of the Barpeta Road Town as an undergraduate, co-educational institution in the year 1990 to cater the need of higher education in the greater Barpeta- Howly and Sorbhog areas of erstwhile Kamrup District of Assam. The college is situated at a distance of 25 km away from the district head quarter Barpeta and well connected by road and Rail from any parts of the country.

G L. Choudhury College was accorded affiliation by the University of Gauhati in 1997 and recognized by UGC under 2(f) and 12(B) of UGC as per UGC Act of 1956. The College was provincialized by the Govt. of Assam on 01-01-2013 under the Assam Venture Educational Institution (Provincialisation of Services) Act 2011, as amended in 2012. Presently, the college has 16 Departments imparting various programmes at both HS and undergraduate level. The college has 42 numbers of teaching faculty and 17 numbers of non-teaching staff with a strength of approximately 1,996 (HS:652; UG:1344) students. The college also has a hostel for the female students. The serene beauty and eco-friendly campus of the College with beautiful garden, plantation plots and play ground is conducive to the pursuit of academic activities.



**Plate 1: G L Choudhury College, Barpeta Road Campus**

The sustained endeavour and efforts of the College towards quality education and the focus on all round development of the educationally weaker section of the society is commendable. The college was accredited by the National Assessment and Accreditation Council (NAAC) in the year 2017 and is now preparing for second cycle of the accreditation.

## GREEN AUDIT AT G L CHOUDHURY COLLEGE, BARPETA ROAD

Participating in the "Green Campus, Clean Campus" mission launched by the University Grants Commission for all higher educational institution of India and in compliance with the 'Environmental Consciousness', a mandatory criterion of National Assessment and Accreditation Council (NAAC), the sustainability and sustainable development policies are kept on the agenda of G L Choudhury College, Barpeta Road. Green Audit is one of the steps taken up by the College in order to record, document, analyse and report the environmental constituents of the Campus through an impartial and inclusive method of auditing. It is anticipated that Green Auditing shall help the College in preserving the rich floral and faunal diversity in and around the campus; garnering interest and creating awareness among the stakeholders.

G L Choudhury College, Barpeta Road is committed to responsible stewardship of resources and to demonstrate leadership in sustainable academic practices for a better tomorrow with the policy goals of Green Audit as follows:

- Identification and documentation of the eco-friendly practices for a sustainable college campus
- Increasing awareness among all stakeholders for sustainable use of available resources.
- Collection of baseline data on different components of environment before converting into threat to the college and the society.

To achieve the aforementioned goals, the present audit endeavours towards the following objectives:

- ❖ To identify current and emerging environmental issues.
- ❖ To monitor environmental management practices.
- ❖ To create awareness among the various stakeholders of the College.
- ❖ To prepare a status report on environmental compliances



## **AUDIT STAGE**

Green auditing is the process of identifying and determining whether the College maintains eco-friendly and sustainable practices. As an effective ecological tool, it helps to create a culture of sustainability as an administrative policy throughout an organization and it needs to be implemented through regular identification, quantification, documenting, reporting and monitoring of environmentally important components.

Green auditing in G L Choudhury College, Barpeta Road began with the formation of the Green Audit team incorporating faculty members and researchers of Gauhati University and G L Choudhury College, Barpeta Road. The audit team visited the campus on regular basis and monitored different facilities from the audit perspectives and, simultaneously made the assessment of the status of the green cover of the Institution followed by waste management practices and energy conservation strategies, etc. Data collection was done by onsite visit through structured questionnaires in different sectors such as water, energy, waste, biodiversity status. The data were collated accordingly and analysed to prepare this Green Audit report of G L Choudhury College, Barpeta Road. The Audit team was led by Prof. Partha Pratim Baruah, Department of Botany, Gauhati University and Chairperson, Gauhati University Green Audit Committee (2019-2022).

## **METHODOLOGY ADOPTED**

The methodology adopted to conduct the Green Audit of G L Choudhury College, Barpeta Road had the following components

- On site field visits by the Green Audit Team at and when necessary.
- Data collections were done through distribution of structured questionnaires amongst different stakeholders and interviews with the executives, official staffs and general students.
- The water quality analysis was done at the District Level Water Testing Laboratory, PHE, Barpeta
- Different standard taxonomic and ecological protocols were followed to document and estimate the floral and faunal account for biodiversity audit.

## POST AUDIT STAGE LAND USE AND LAND COVER

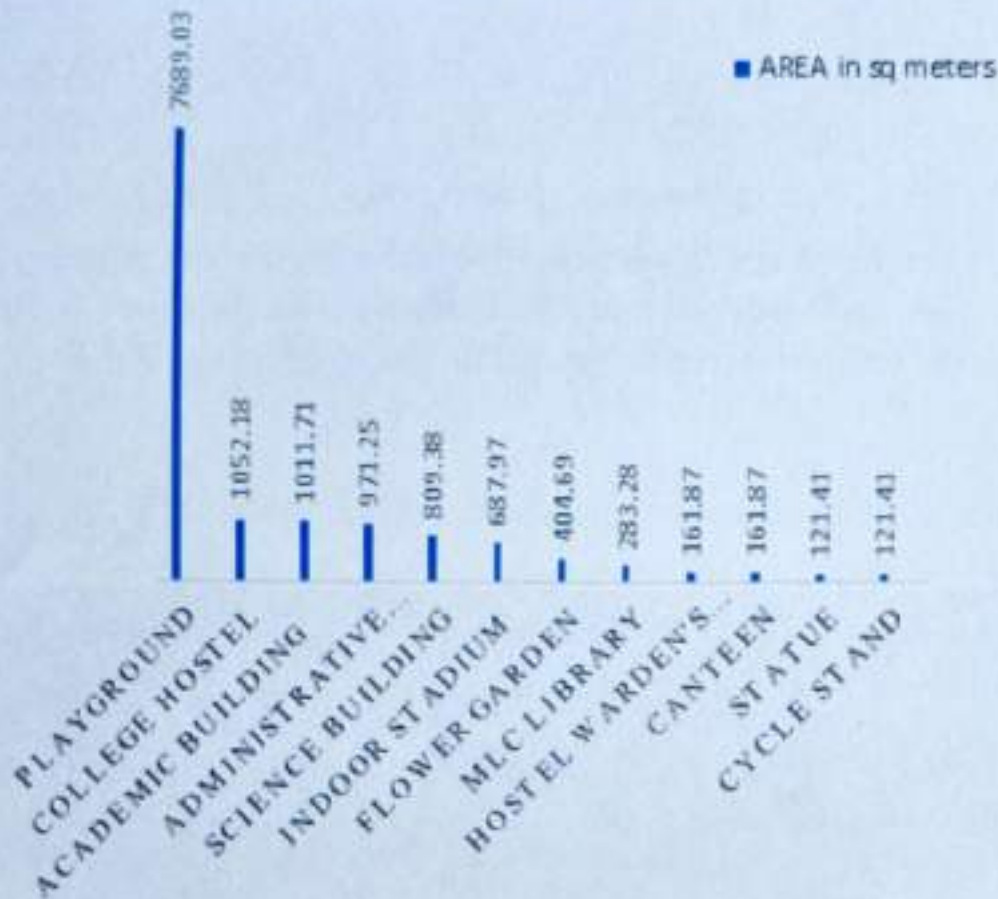
Located within a populated Barpeta Road township, the College campus is a flat piece of land with a total area of 21610.21 m<sup>2</sup> (5.33 Acres) of land with having demarcated and dedicated spaces for one gardens and two multi sports play facilities.

Regular plantations since the inception of the College make it lush green campus. The trees not only support as sound barriers, but also house a wide spectrum of epiphytic orchids and pteridophytes. Organized plantations in the campus are seen which is a commendable green practice of the College. The drainage system was found to be standard and all drains of the college dictate towards the municipality storm drain located backside of the college. Inundation is a recurring problem in the college campus which put hinderance in maintaining the gardens.

**Table 1': Land use -Land cover Analysis in the College Campus**

<b>CATEGORIES OF LAND USE</b>	<b>AREA (m<sup>2</sup>)</b>
Playground	7689.03
College Hostel	1052.18
Academic Building	1011.71
Administrative Building	971.25
Science Building	809.38
Indoor stadium	687.97
Flower Garden	404.69
MLC Library	283.28
Hostel warden's quarter	161.87
Canteen	161.87
Statue	121.41
Cycle stand	121.41
<b>Total</b>	<b>13476.05</b>

## FIG1: LAND USE LAND COVER ANALYSIS OF THE COLLEGE CAMPUS



### Observations

- Organised plantation along the buildings and dedicated garden blocks with mixed plantation are commendable green initiatives of the College.
- Disturbance is less in dedicated green areas/gardens.
- Avenue trees including sound barriers do not receive due attention.
- Though inundation is an acute problem during rainy season, maintenance of garden and plantation are well attended by the stakeholders.
- The drainage links are suitably managed to dictate the harvested rain water and excess surface runoff towards the storm drains of the town.

## Suggestions and Recommendations

- A task force is to be constituted for monitoring and maintaining the gardens.
- Timely pruning of avenue trees and sound-braking trees is suggested to increase aesthetic beauty of the campus.
- Post plantation of saplings needs to be monitored.
- Considering the land resources and quality of the soils, the authority may think of initiating inundation tolerant fruit cultivation in the vacant spaces which may open up a new avenue for income generation for the college.

Plate 2 : Map of the campus (Source Goggle Earth-2022)

