

GREEN & ENVIRONMENT AUDIT REPORT

2024



LALIT CHANDRA BHARALI COLLEGE
MALIGAON, GUWAHATI, ASSAM

The Audit Team

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CERTIFICATE

This is to certify that the present green audit report of Lalit Chandra Bharali College, Maligaon, Guwahati-11 was prepared during the period June, 2023 to May, 2024. The audit team assessed the water, soil and air quality, water consumption and management, waste management, carbon foot print, green campus and green agenda in curriculum and practises and the policies and efforts of the college to maintain an eco-friendly campus.

 20/05/24

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Background

Green audit is the tool of management system used methodologically for protection and conservation of the environment. It is also used for the sustenance of the environment. The audit suggests different standard parameters, methods and projects for environmental protection. It can be adopted by any industry, organization, institute and even by housing complex. The green audit is useful to detect and monitor sources of environment pollution and it emphasizes on management of all types of wastes, monitoring of energy consumption, monitoring of quality and quantity of water, monitoring of hazards, safety of stakeholders and even the management of disasters.

Green audit is the need of the present times when the world is challenged with environmental threats and constant pressure of sustenance of the ecosystems. The concept of a green audit mainly focuses on the efficient use of energy and water, minimize waste generation or pollution and also enhancing the economic efficiency of resource use and recording, identification, reporting and quantification of the floral and faunal diversity.

As per the National Environment Policy 2006, Government of India has made green audit mandatory to each industry. It has been recognized that the maintenance of the healthy environment is not the responsibility of the state alone. It is the responsibility of every citizen and thus a spirit of partnership is to be realized through the environment management of the country. The process of environmental audit was formalised by the Supreme Audit Institution (SAI) according to the guidelines given in Manual of Standard Orders (MSO) issued by Authority of the Controller and Auditor General of India 2002.

By realizing the need of responsibility towards environment, NAAC, an autonomous body under UGC has added the concept of environmental audit in accreditation methodologies of universities and colleges. Any responsible educational institution focuses its activities towards the reduction of emissions, procures a cost effective and secure supply of energy, encourages and enhance energy and water conservation, promotes environment-friendly action plan, reduce wastes, and integrates environmental considerations into all its contracts and services.

Here an attempt is being made to assess the environmental quality in and around L.C.B. college campus thereby preparing a comprehensive environmental audit of the college campus. The prime thrust areas included during the auditing are air quality, water, energy, waste, green campus and carbon foot print. Effort is also being made to formulate management strategies for optimum utilization of various resources.

Objectives of green audit:

The objectives of the present green audit are to assess the environmental quality of the L.C.B.. college campus and its adjoining areas and formulate the management strategies and to nurture environment friendly management of the institution. The specific objectives of the environmental audit are:

1. To study the water consumption and management pattern of the college
2. To quantify the waste generation (solid and e-waste) and the management plans initiated for the same in the College campus.

3. To assess the carbon foot print of the college
4. To recommend future environment management plans for the college
5. To create a database for initiating corrective actions and future plans.
6. To assess whether the curriculum of the institution include environmental education and practises

The study will thus try to recognize the initiatives taken by the organization towards environment. It is also expected to provide baseline information to enable the institution to evaluate and manage environmental change, threat and risk thereby to recognize, diagnose and resolve the environmental problems.

Green and Environmental policies in practice

The Green and Environment audit conducted for the period July-September 2021, audited the water, soil and air quality, water consumption and management, waste management, carbon foot print, green campus and green agenda in curriculum and practises and the policies and efforts of the college to maintain an eco-friendly campus. They also made some recommendations for the future management of the environment of the College. Following actions are already taken on the basis of the recommendations:

1. A few beds of indigenous medicinal and aromatic herbs are been planted as demonstration plots.
2. Potted plants are grown to compensate for the lack of open areas in the college campus.
3. Leaking water taps are repaired and students and other stack holders are made aware of preciousness of water by displaying "Save Water" signage in the campus.

4. Plastic free zone in the college is being promoted to reduce the use of plastics as much as possible.
5. Use of paper is minimised by encouraging e-media.
6. The college disposes solid waste through Guwahati Municipal Corporation facilities.
7. Harvested rainwater of the college is purified in a customised sand-coal filter and put to use for hand-washing or gardening purpose.
8. Use of fossil fuel generator is minimised by using solar energy backups.
9. Green and Eco Club is formed and students are enrolled with a purpose to make them aware regarding environment.

Recommendation

On the basis of the assessment of the Audit Team for the period June, 2023-May, 2024 on quality of water, soil air ,waste management, carbon foot print, green campus and green agenda in curriculum and practises and the policies and efforts of the college to maintain an eco-friendly campus following recommendations are made:

1. The audit team recommends that initiatives be taken to increase the green cover in the campus. Inside the boundary of the college, some fruit bearing plants may be planted.
2. The college may take initiative for plantation in the degraded areas of the two adjoining hills. This may help in restoring the greenery of the degraded hills.
3. The audit team recommends that bird watching camp, butterfly photography and similar activities be initiated under expert guidance to raise the awareness of students about their surroundings.
5. The college may observe world water day, world ozone day and such other events to raise the awareness of stakeholders on various environmental issues.

Compostable solid waste (kitchen and garden) may be converted into compost and may be used in the garden or sold out as a resource generation scheme. The college may initiate measures for the same.

7. The College is recommended to initiate E-Waste management strategy for proper disposal of E-Waste through approved agency.

8. The Audit team recommends that the staff may reduce private vehicle use and develop car-pooling culture or promote use of public transport.

9. The students may also be discouraged to use two-wheelers.