



Vidya Prasarak Mandal, Gadhinglaj's

DR. GHALI COLLEGE, GADHINGLAJ.

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Website: ghalicollege.edu.in

NAAC Reaccredited ' B ' Grade
(Third Cycle)

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DATE: / /202

Institutional Policy on Energy, Environment and Green Campus

Introduction:

A green campus is the place where environment and education holds hands together to envision a promising future. Institute has higher sensitivity and responsibility in maintaining cleanliness and implementing green concepts in the campus. The participation of students and other stake holders are inevitable in maintaining the green campus. The institute ensures green campus through Environment Cell, Green Club, NCC and NSS. We implement following practices towards establishment and maintenance of clean and green campus and adopt green initiatives.

Objectives:

- 1) To make environment friendly exercise in academic and administrative operation of the college.
- 2) To aware stakeholders for environment protection.
- 3) To follows standard norms for environment concern prescribes by the governing body of the college and local administrative agency.
- 4) To conduct environment, energy and green audit by appointed agencies.
- 5) To campaign regarding environment protection in society through various activities.

Scope:

- 1) Daily cleaning of all the class rooms and corridors must be performed by assigned non-teaching staff members.
- 2) The cleanliness drives should be organized for cleaning of playground and other places in campus.
- 3) All the waste materials are segregated according to their category.
- 4) Segregated decaying material is used for vermicomposting.
- 5) Plastic bags are banned and the usages of cloths bags are encouraged inside the campus.
- 6) To reduce air pollution, students and staff member's vehicles made to park their vehicles outside the campus. Also we promote use of E-bike. Likewise we established the E-bike charging station.
- 7) Rain water harvesting.
- 8) Installation of solar panels to conserve non-renewable resources.
- 9) Beautification of college campus, botanical garden and Nakshatravan and bird house for injured bird is maintained properly.
- 10) To conduct Environment, Green and energy Audit on regular intervals.



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DR. GHALI COLLEGE
GADHINGLAJ
Affiliated to Shivaji University



DR.GHALI COLLEGE, GADHINGLAJ

Criterion: 7

Institutional Values and Best Practices

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

POLICY DOCUMENT ON ENVIRONMENT AND ENERGY

USAGE

2018-2023

Dr. S. A. Masti

(Co-ordinator IQAC)



Principal
Principal
Dr. Ghali College
Gadhinglaj, Dist. Kolhapur

Environment Policy (Usage Certificate)

As per the Indian Green Building Standards

Prepared by

External Expert: Ar. Nahida Abdulla

(ASSOCHAM GEM Certified Professional – Registration no. 22/718)

Greenvio Solutions

An environmental and architectural design consultancy (Socio-environ responsibility)

Motto: Developing Healthy and Sustainable Environments

greenviosolutions@gmail.com

Website: <https://thegreenviosolutions.co.in/>



Proposed for the prestigious

Vidya Prasarak Mandal's

Dr. Ghali College

Gadhinglaj, Bhadgaon Road, Gadhinglaj - 416 502, Maharashtra, India

Date of preparation of policy: 07 November 2023

Policy no: GV/ PL/ 11-23/ZG-2

Environment Policy

DISCLAIMER – This policy has been prepared by team 'Greenvio Solutions' based on audit. The inferences are used as a base in formulating the policy. The implementation is dependent on Institutional capabilities. Thus, presented plan of action is a feasible document to be practiced by the stakeholders.

Policy statement

The said policy is applicable for the **academic year 2020-2021 and 2021-2022**. The study helps to denote positive and negative aspects of the site context w.r.t. ecological parameters.



Figure 1: Mapping the Green cover in premises

Policy motive (Green cover)

- ⇒ The College has a team that **maintains 40-50% greenery and landscape** of the shared premises.
- ⇒ The site shall **increase the amount of green cover in the form of green roof, and vertical gardening as and when possible.**
- ⇒ Currently the nos. of plantations stands at 109, as the building is located in a shared campus, the green cover is used for multiple purposes and recreational activities. Though there is a dedicated botanical garden, ample measures to increase green cover within premises shall be undertaken.

Policy objectives

- ⇒ Regularize site context study as a consistent activity.
- ⇒ Explore opportunity for carbon sequestration study of environment.

Policy implementation

- ⇒ Increase **stakeholder sensitization** about:
 - Eco-sensitive zones in and around campus
 - First hand measure on local scale to improve the environmental ambience
 - Environment related materials in the library
 - Green practice initiatives for societal development
 - Invite organizations to educate masses about eco-friendly opportunities.
- ⇒ **Increase the green cover along courtyards and duct areas through vertical plantations** after discussion with external experts **to increase the green cover by 40-45%**
- ⇒ **Fire & Life safety practices** enhanced with cooperation of stakeholders and local government.
- ⇒ **Explore opportunities to increase the vertical gardening using waste plastic bottles at multiple locations in premises.**
- ⇒ **Undertake green zone development activities in nearby villages.**

Policy history

The Indian and International Green Building Standards were referred to draft this policy.

Energy Policy (Usage Certificate)

As per the Indian Green Building Standards

Prepared by

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Date of preparation of policy: 07 November 2023

Policy no: GV/ PL/ 11-23/ ZG-1

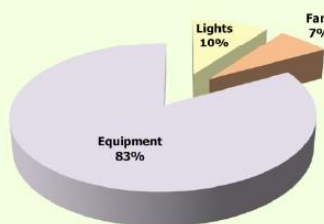
Energy Policy

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Policy statement

The said policy is applicable for the **academic year 2020-2021 and 2021-2022**. The study emphasizes on the existing consumption patterns, strategies adopted, and inferences that can improve power and utilization pattern.

Policy usage (Energy loads)



The calculated electrical load (power consumption) Of the premises is **1,30,979 kWh** (electrical study)

The adjacent graph shows **equipment consume 83%** while the **lights consume 10%** whereas the **fans consume 7%** of total calculated electrical energy.

Figure 1: Summary of the calculated electrical consumption

Policy objectives

- Regularize the energy usage as a consistent activity.
- **Increase the energy consumption** for **renewable mode** as alternate sources of energy.
- Undertake sensor based facilities in some spaces to march towards smart campus facilities.
- Spread awareness **about renewable energy strategies to stakeholders - nearby villagers.**

Policy implementation

- Increase **stakeholder sensitization** about importance of energy conservation.
- **The usage of renewable energy sources to utilize maximum energy as possible.**
- **Reduce the conventional lights consumption** which stand at **6,660 kWh out of the 13,065 kWh consumed by lights** further replace the same with energy efficient appliances to make the premises a 100% energy efficient appliance premises.
- **The air conditioning loads stand at zero at present, this highlights the importance of natural ventilation reliant campus,** efforts shall be taken to maintain the same.
- **Reduce the conventional fans consumption** which stand at **7,775 kWh out of the 9,011 kWh consumed by fans** further replace the same with energy efficient appliances to make the premises a 100% energy efficient appliance premises.

Policy history

The AICTE Environment Policy 2020 was referred to draft this policy.

Green Building Management Policy

As per the Indian Green Building Standards

Prepared by

External Expert: Ar. Nahida Abdulla

(ASSOCHAM GEM Certified Professional – Registration no. 22/718)

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Date of preparation of policy: 07 November 2023

Policy no: GV/ PL/ 11-23/ ZG-3

Green Building Management Policy

DISCLAIMER – This policy has been prepared by team 'Greenvio Solutions' based on audit. The inferences are used as a base in formulating the policy. The implementation is dependent on Institutional capabilities. Thus, presented plan of action is a feasible document to be practiced by the stakeholders.

The said policy is applicable for the **academic year 2020-2021 and 2021-2022.**

- ➔ Take certain provisions for **Green Building parameters** to be implemented in a cost-effective manner through consultancy with corporates.
- ➔ **Social practices through green management** - Continue the number of practical and virtual activities under social welfare and community development initiatives for the students and staff, develop green-oxi-breakout-waste-eco zones in & around campus.
- ➔ **Water Management** - The water conservation measures of water efficient appliances, water harvesting etc. for conservation shall be extended to nearby villagers etc.
- ➔ **Waste Management** – Adequate measures shall be taken towards organic, paper, e-waste and plastic waste management through sensitization programs and actual activities for students and nearby villagers.
- ➔ Join hands with local municipal corporations on local, regional, national and international level to develop substantial programmes for **community development** and village beautification through eco-friendly techniques.
- ➔ Increase the **environmental interventions** in the educational programmes and document-reflect-collect first hand review through multiple platforms consistently.
- ➔ Educate the students to undertaken initiatives for the **socio-environmental welfare** for nearby localities and adopted areas.