

# *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

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Proposed for the prestigious

**S. P. Mandali's**

**R. A. Podar College of Commerce and Economics (Autonomous)**

L.N. Road, Matunga, Mumbai – 400019, Maharashtra, India

Date of preparation of policy: 29 December 2023

Policy no: GV/ PL/ 12-23/ZK-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 2021-2022 and 2022-2023**. The study helps to denote aspects of the site context w.r.t. ecological parameters.

## Policy motive (Green cover)

- The site shall **increase the amount of green cover in the form of potted plantations, sapling distribution in and around the campus.**
- Detailed documentation shall be undertaken for the ecological extent (plantations) and **appropriate QR coding, plantation numbering etc. as a student activity for sensitization purposes.**

## Policy objectives

- Regularize site context study as a consistent activity.
- Understand the scope for smart and responsible environmental systems.

## Policy implementation

- Increase **stakeholder sensitization** about:
  - Scientific specifications of plantations
  - Display banner about the eco-zone for awareness in simple language
  - Eco-sensitive zones with bird and water feeders in and around campus
  - Environment related materials in the library
- **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 urban areas in coordination with government, urban local bodies and other stakeholders.**

## Policy history

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

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# Energy Policy

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## Policy statement

The said policy is applicable for the **academic year 2021-2022 and 2022-2023**. The study emphasizes on the existing consumption patterns, strategies adopted, and inferences that can improve power and utilization pattern.

## Policy usage (Energy loads)

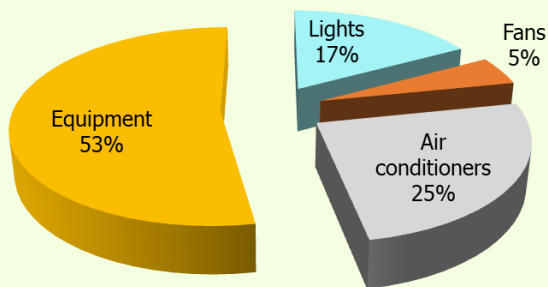


Figure 1: Summary of the calculated electrical consumption

The calculated electrical load (power consumption) Of the premises is **3,10,767 kWh** (electrical study)

The adjacent graph shows **equipment consume 53%** while the **air conditioners consume 25%** whereas the **lights consume 17%** and **fans consume 5%** of total calculated electrical energy.

## Policy objectives

- Regularize the energy usage as a consistent activity.
- Explore the opportunity to increase **renewable mode** as alternate sources of energy.
- Undertake sensor based facilities in phases to upgrade and march towards smart campus facilities.
- Spread awareness about carbon-free strategies to stakeholders.

## 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 **45,398 kWh out of the 53,181 kWh consumed by lights** further replace the same with energy efficient appliances to make the premises a 100% energy efficient appliance premises.
- **Reduce the air conditioning loads consumption** which stand at **78,553 kWh**, further devise sources to utilize natural ventilation for comfort purposes.
- **Reduce the conventional fans consumption** which stand at **12,717 kWh out of the 14,653 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.