



Parvatibai Chowgule College of Arts and Science Autonomous

Margao Goa

**POLICY ON
GREEN CAMPUS, ENVIRONMENT AND ENERGY USAGE**

2016-17



Policy Document on Green campus, Environment and Energy Usage

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Preamble

Parvatibai Chowgule College envisions a Clean and Green Campus to promote sustainable and eco-friendly practices in the campus and beyond the campus. The green campus concept offers the institution an opportunity to take the lead in redefining its environmental culture through instilling environmental ethics among students and staff. The environment and energy policy will help us to embed efficiency and environmental awareness into our everyday activities, thus helping us to realize our responsibilities and commitment to conservation of natural resources and to limit its usage.

I. Objectives

- Implement and manage green and sustainable initiatives on campus
- Monitor and reduce waste of all campus operations and activities
- Provide hands-on sustainability training and learning opportunities
- Foster a culture of sustainability awareness, action in the campus and local community
- To motivate students to adopt environment friendly practices to save electricity, save water, by making, distributing and use of paper bags, etc.

II. Practices

The Institution is committed to managing its campus in accordance with responsibilities towards promoting sustainable environment. These responsibilities can be demonstrated within the following areas;

- A. Green Environment & Clean Campus through Solid, liquid & E -Waste Management
- B. Maintenance of Water Bodies
- C. Water Conservation and Management
- D. Paperless operating procedure
- E. Landscaping with Trees and Plants
- F. Energy Use and Conservation



- G. Air Pollution Management
- H. Restricted Use of Automobiles
- I. Ban on Single-use Plastics on the Campus

A. Green Environment and Clean Campus

The students are given strict instructions to maintain the campus clean. A gardener and full-time adequate support staff are appointed for the maintenance of litter free clean and Green Campus. Solid waste is segregated as bio degradable and non-degradable and handed over to Municipal Corporation. All Departments and classrooms are provided with dustbins for dry wastage disposal. Segregation of waste into dry and wet waste from the separately allotted dustbins is done in strategic locations, thus maintaining the Campus clean and Eco- friendly. Use of sanitary disposal machine is one of the best practices adopted by the college towards eco-friendly disposal mechanisms. Food leftovers from the canteen is treated and converted into vermin-compost in the vermicompost pit.

The college adopts most scientific and eco-friendly e-waste disposal mechanisms such as Annual Maintenance Contract is maintained to periodically review the effective functioning of CPU's and

Monitors and expert recommendations are followed to dispose the same in the market. The institution has a contract for approved E-Waste Management and Disposal facility in order to dispose E-waste in scientific manner. Obsolete workable computers, printers and other equipment discarded by departments are sold as scrap. The cartridges of printers are refilled outside the college campus. UPS Batteries are recharged and repaired by the suppliers.

Students are made aware that conserving water is equivalent to conserving their future. Refilling water bottle from the water purifier is one of the best practices followed. In house - plumbers attend promptly to fix leakages and wastage of water.

Green Audit is conducted to identify, quantify, describe and priorities a framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.



B. Maintenance of Water Bodies

The institution functions with the help of ground water. There is one bore well and one open well. Besides this, college also gets water supply from local municipality every day. The institution has a good storage of ground water, drinking water and water for cleaning purpose. For drinking purpose, the Institution has an Aqua guard water purifier. Apart from the ground water and municipal water, the College has rain water harvesting pits, which function efficiently during the rainy season. It is made mandatory to clean and disinfect water holding tanks at least monthly once or more often, if required. Water filters are replaced periodically to provide the students and staff with pure drinking water.

C. Water Conservation and Management

The college has installed rainwater recharge mechanism wherein the rainwater is accumulated and deposited for reuse. The water collected is directed to a deep pit of bore-well for later use. Even the ground water is directed towards the plants. Although rainwater recharge is gaining popularity as a sustainable water saving system in urban as well as rural areas, estimating required storage area for water remains an important design challenge and so our college has designed an effective plan with multiple sunken pits which is in the process of implementation to collect rain water for storage.

D. Paperless Operating Procedure

Several initiatives are taken to minimize the usage of paper. Digital storage of documents is one such measure wherein the technology is used to a greater extent for communication among the staff and the students rather than paper communication. WhatsApp-class wise groups, Department wise groups, etc. facilitate E-communication and use of public address systems reducing usage of paper in notices and circulars. In addition to going paperless in the classroom, the college has also introduced "Learning Management System" wherein references, notes, syllabus question banks, study material is stored and shared on the e-platform, avoiding massive usage of paper. The teachers have also experimented with alternatives of paper-based testing with e-assignments and other skill-based tests like presentations, group discussions etc.



E. Landscaping with Trees and Plants

The institution organizes Tree Plantation program every year at the College Campus, like Vanamahotsav on World Environmental Day. Students and staff enthusiastically initiate and participate in the tree plantations drive on the campus and also outside the campus. Environmental promotional activities conducted in collaboration with government bring awareness among the students regarding advantages of tree plantation for an Eco-friendly Environment. The plantation program includes plantation of various types of ornamental and medicinal variety, wild plant species stepping up the oxygen levels on the campus.

F. Energy Use and Conservation

- To use Solar Energy on College Campus by installing Solar Lamps
- To use LED Bulbs replacing tube lights in classrooms and administrative office.
- Energy audit is conducted to identify the extent of energy consumption and find appropriate strategies of conservation.

G. Air Pollution Management

Periodic Awareness Programme for Staff, Students and Society: The College conducts awareness programmes for staff, students and society for protecting and maintaining environment.

Plantation of oxygen rich plants: A range of medicinal plants and old trees like Neem Trees and Tulsi make the campus Oxygen Park.

“No Smoking, No Tobacco” in campus area: Tobacco and tobacco products are strictly prohibited in the college premises and consuming Tobacco and tobacco products is a punishable offence. The instructions regarding this are given to the students and the staff members.

H. Restricted Use of Automobiles

The College monitors its carbon footprints and adopted;

- Restricted use of automobile entry inside the campus
- All the vehicles of college staff should be with valid emission certification.



- The college encourages the employees and students to frequently use public transport, bicycles, etc.

I. Ban on Single-use Plastics on the Campus

Following the MHRD and UGC guidelines, on 2 October 2019 to educational institutions across the country, the college has issued a notification to Students and all Stakeholders that there would be a ban implemented on the use of single use plastics on the campus with effect from 15 October 2019.

The institution through its various Club systems conducts sensitization programs on the harmful impact of single-use plastics and mandates all the students - to avoid carrying non-bio-degradable plastic items to the institution, which includes plastic bags, cups, plates, small drinking water bottles, straws and sachets. The institution mandates the canteen to serve only in paper plates and papercups to systematically ban the use of plastics on the campus. These strategies are incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus. This policy will be communicated to the students and employees via internal communication channels and will be made available to all the stakeholders on the institutional website.

All the stakeholders are required to abide by the policy to make the college campus green, clean and eco-friendly.

References

- UGC Guidelines for development of green campus, 2016
- Swachh Campus - A manual for Swachhta Ranking of Higher Education Institutions, Government of India Ministry of Human Resource Development, 2017



PRINCIPAL

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