

**Rayat Shikshan Sanstha's,  
Yashavantrao Chavan Institute of Science, Satara  
(Autonomous)**

(Lead College of Karmaveer Bhaurao Patil University, Satara)

**Clean and Green Campus Policy**

**Introduction**

Yashavantrao Chavan Institute of Science, Satara is committed to sustainability and environmental responsibility. As part of our dedication to creating a sustainable future for our campus community and the planet, we have developed this Green Campus Policy. This policy outlines our objectives, strategies, and guidelines for creating and maintaining a green campus that promotes environmental stewardship, energy efficiency, waste reduction, and sustainable practices

**Objectives**

Our Green Campus Policy aims to achieve the following objectives:

1. **Reduce Carbon Emissions:** Implement measures to reduce greenhouse gas emissions and minimize our carbon footprint.
2. **Conserve Resources:** Optimize resource use by reducing energy and water consumption, minimizing waste generation, and promoting sustainable practices.
3. **Promote Sustainability Education:** Educate and engage students, faculty, and staff in sustainable practices, fostering a culture of environmental responsibility.
4. **Enhance Biodiversity:** Preserve and enhance green spaces on campus to promote biodiversity and create a healthy ecosystem.
5. **Sustainable Transportation:** Encourage sustainable transportation options to reduce the reliance on fossil fuels.

**Initiatives Taken to Implement the Clean and Green Campus Policy**

The Institution is committed to managing its campus in accordance with its Clean and Green Campus Policy by establishing the following infrastructure and carrying out the following activities:

- \*Landscaping with Trees and Plants
- \*Ban on Single-Use Plastic
- \*Use of Solar Plant in the College
- \*Use of LED Bulbs/Tubes and Power Efficient Equipments
- \*Solar Water Heater in the Girls' Hostel
- \*Rainwater Harvesting

- \*Paperless Office and Communication
- \*Solid Waste Management
- \*Laboratory liquid waste management system through percolation system:
- \*Water Management
- \*E-waste Management
- \*Display Boards to Promote Environmental Sensibility on College Campus ·
- \*The Green, Environmental and Energy Audit

### **Landscaping with Trees and Plants**

As per the Clean and Green Policy of the Yashwantrao Chavan Institute of Science, Satara strives to plant various types of ornamental and medicinal variety, wild plant species of trees in large numbers within and outside the campus. Gardeners and full time adequate support staff have been appointed for the maintenance of gardens and keeping the campus litter-free, clean and Green Campus. The College Garden, Botanical Garden, Biodiversity Park, Green House and the Vermicompost Unit are looked after and maintained by the Department of Botany and Zoology.

The tree-plantation drives are undertaken by the NSS and NCC Units of the college and also by the Departments of Botany and the Environment Science on regular basis generally in the month of July every year.

### **Ban on Single-Use Plastic**

The campus of Yashwantrao Chavan Institute of Science, Satara is a plastic-free campus where there is a complete ban on single-use plastics in classrooms, laboratories, canteen, hostel, and in the other premises. The college facilitates environment friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in stainless steel or paper plates/glasses/cups to systematically ban the use of plastics on the campus.

### **Solar System in the College**

The college has established the Solar Energy Plant on the roof Building of the college the power produced by the solar panels are used in college campus.

### **Use of LED bulbs/ Power-Efficient Equipments**

More than 90% electric lights and all the computers of the college are LED enabled. The other equipments are also purchased taking into account their power-efficiency.

### **Solar Water Heater in the Girls' Hostel**

Apart from the Solar Energy Plant for the Street Lights, Solar Water Heater is installed in the Girls' Hostel of the college for fulfilling the requirement of Hot water.

### **Rainwater Harvesting**

The college ensures rain-water conservation through rainwater harvesting. The rain water from the roof top outlets is carried through the well connected pipelines to the wells or is collected in the large water harvesting tanks and the overflowing rain-water from these tanks is discharged in the soak-pits for ground water recharge. Rain water collected in the tank is supplied to the plants in Botanical Garden, Biodiversity Parks of the college.

### **Paperless Office and Communication: -**

The college has a policy to minimize the use of paper in all types of official/academic communication of the college through E- Communication. The use of paper is substantially reduced through digitization. One-side blank pages are used to avoid wastage of paper. All the college staff have been provided the college E-mail IDs and through which they make all the required official and college-related communication. What's app - Class-wise groups, Department wise groups, Committee wise groups have been formed which have reduced the usage of paper in notices and circulars. Moreover, the college has avoided massive usage of paper college provide e-platform through which we can shared references, notes, syllabi, question banks, study material This practice has proved highly beneficial to save money, boost productivity, save space, make documentation and information sharing easier, and help the environment.

### **Solid Waste Management**

The Solid waste generated in the campus is segregated as bio degradable and non-degradable and handed over to Satara Municipal Corporation as a part of Swachh Bharat Abhiyan and "Our Satara, Clean Satara"

All the Departments, laboratories, and Classrooms are provided with dustbins for dry wastage disposal. Segregation of the waste into dry and wet waste are done through the separately allotted dustbins at strategic locations in the college.

### **Vermicompost Unit**

Vermicompost Unit is established in the Botanical Garden of the Department of Zoology. The students of the department actively involve themselves to run this unit. The organic waste material is collected from the college campus by the students to deposit it in the special vermicompost tank. Using cow dung, Earthworms the soil mixture is made with appropriate proportions. The obtained compost is used as biofertilizer for plantation throughout institute area.

### **Liquid waste Management**

#### **Laboratory liquid waste management system through percolation system: -**

Two Soak Pits for groundwater recharge are constructed for non-hazardous liquid waste generated from labs. Chemistry laboratory have separate basin marked with hazardous chemical waste. In this liquid waste can be defined as waste water of practical without chemical. This is the liquid used for washing purpose other than reaction. As this liquid is not hazardous to environment so it can be percolate in the soil so as to avoid stagnant water and to facilitate ground water recharge. The hazardous liquid containing chemicals get transfer to Laboratory Hazardous Chemical waste disposal unit. This waste liquid of both laboratories is percolate in to the soil through different water percolation system. This percolation pit is also like rain water harvesting system The pit is filled with gravel/pebbles followed by river sand for better percolation.

### **Water Management**

The water for all other purposes is supplied through another set of distribution pipes. The college has two wells with ample water. The ground water from the wells

is pumped into the storage tanks / elevated service reservoirs located at different places in the campus. The water is distributed through well-laid pipe network. Entire distribution system is well supervised by the college administration to ensure that there are no leakages and wastages of water through Leakages in the pipelines and the water-taps etc. Regular cleaning of the water tanks is regulated by the administrative staff of the college. All the stakeholders of the college are well-educated to use water economically and efficiently

Rainwater from the different college buildings is taken to the wells for ground-water recharge. A proper care is also taken to keep the Rooftops cleaned so that unnecessary garbage does not mix with the rainwater leading towards the well.

#### **.E-waste Management**

The students and faculty have also involved in the maintenance and repairs of the instruments and experimental kits, which led to increase their life and the optimum uses. This have not only become a step towards the E-waste management but also cultivated innovative ideas among the students and the faculty. The students have also gained many skills through these activities.

Our Parent Institute has constituted a technical committee to make the audit of PC's, Electronic Gadgets, Instruments and Equipment after its expiry date. The E waste generated from college which cannot be reused or recycled is being disposed off authorized vendors ( As per MoU )

#### **Display Boards to Promote Environmental Sensibility on College Campus**

Various boards including Quotes that promote environmental awareness and ethics including air-pollution control, plastic-free campus, conservation of energy, recycling of resources, tree plantation, Nature conservation, etc. are displayed for all the stakeholders of the college.

#### **The Green, Environmental and Energy Audit**

The Green, Environmental and Energy Audit of the college is done by Shri Ecoshastra Consultancy, Baramati.

  
**Principal**  
Yashwantrao Chavan Institute of Science  
Satara