



Progressive Education Society's

Modern College of Arts, Science & Commerce

Ganeshkhind, Pune - 411016. (Autonomous)



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- Permanently Affiliated to Savitribai Phule Pune University. PUN / PN / ASC / 089 (1992)
- UGC - Recognition No.: F-8-290 / 2006 (CPP-I) ■ Best College Award by Savitribai Phule Pune University

WATER ACTION PLAN

Purpose:

The purpose of the Water Action Plan is to implement effective strategies for conserving water resources, reducing water costs, increasing ground water level and enhancing water quality through continuous monitoring. It focuses on efficient rainwater management, optimizing water use across campus facilities, and promoting sustainable practices to ensure long-term water conservation and environmental responsibility.

Introduction:

Water is an essential and increasingly scarce natural resource, facing rapid degradation and depletion in today's world. As the demand for water continues to rise and the impact of climate change accelerates, it becomes crucial for institutions to adopt sustainable water management practices. Recognizing the importance of water conservation and efficient usage, this Water Action Plan aims to optimize water consumption across our campus. The plan focuses on improving water efficiency, enhancing rainwater management systems, and fostering a culture of sustainable water practices. By implementing these strategies, we strive to ensure responsible water use, reduce our environmental footprint, and engage all stakeholders in our collective efforts towards water conservation and stewardship. This initiative will not only benefit the institution but will also contribute to the larger goal of preserving this vital resource for future generations.

Strategy implemented:

- 1. Rainwater Harvesting:** Ensure the proper maintenance of rainwater harvesting systems on campus to efficiently capture and store rainwater for non-potable uses, such as irrigation and cleaning.
- 2. Water Consumption Reduction:** Implement water-efficient fixtures, conduct regular water audits, and promote water-saving practices to significantly reduce overall water consumption.
- 3. Wastewater Treatment and Reuse:** Ensure the effective maintenance of laboratory effluent treatment wastewater treatment plants and reuse treated wastewater for irrigation, flushing,



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and other non-potable purposes, thereby reducing the consumption of freshwater. Regular monitoring of taps and plumbing work is conducted throughout the college.

4. Water Quality Monitoring: Establish a continuous water quality monitoring system to ensure safe and clean drinking water across campus and assess the health of water sources.

5. Landscape and Irrigation:

Optimize landscape irrigation with efficient systems, regular maintenance, and water-efficient landscaping that minimizes the use of potable water. These measures will enable college to effectively manage water during summer, unpredictable rainfall, and water restrictions, promoting long-term sustainability. A vertical farming system using aquaponics and a drip irrigation system has been established on campus to demonstrate water-efficient farming techniques.

6. Student, Staff, and Community Engagement:

Launch awareness programs, workshops, and campaigns to educate and involve both students and staff in water conservation practices, cultivating a culture of sustainability on campus. Extend these efforts to the local communities, collaborating to raise awareness and promote sustainable water management practices beyond the campus. "Save water" signs are displayed near water sources across the campus.

Long-term Water Conservation Strategies: The following objectives and strategies have been formulated to accomplish the goals outlined in the action plan

Objective	Strategies
Monitor water consumption, maintain up-to-date records, and identify/respond to leaks and line breaks in a timely manner.	<ol style="list-style-type: none"><li data-bbox="758 1446 1494 1535">1. Identify and prioritize the installation of necessary secondary sub-meters.<li data-bbox="758 1557 1494 1756">2. Integrate meters with an online real-time monitoring system to track water consumption data, set alerts, and regularly review to quickly detect any abnormal usage.<li data-bbox="758 1778 1494 1933">3. Monitor weekly water consumption during the summer, when water demand is higher, and develop strategies for efficient usage.<li data-bbox="758 1955 1494 1997">4. Promptly identify and repair any leaks or broken

	pipes as needed.
Install an online smart irrigation system	1. Create a plan to remove all irrigation areas from manual operation and replace with programmable irrigation clocks.
Improve water quality in campus	1. Regularly test and analyze water data in collaboration with relevant faculty and staff. 2. Develop and execute a plan to enhance water quality based on data analysis and established best practices.
Foster a culture of sustainability by engaging students, staff, and the local community in water conservation practices, promoting responsible water use both on campus and beyond.	1. Launch campus campaigns and collaborate with local communities to promote water conservation. 2. Host workshops for students, staff, and the community on sustainable water practices. 3. Organize competitions to reward water-saving efforts and partner with environmental organization 4. Implement water-saving technologies and regularly assess progress through surveys and digital engagement.

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