

Water Conservation Policy

Prepared by

M. S. Patel Department of Civil Engineering



**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
(CHARUSAT), CHANGA
DISTRICT: ANAND, GUJARAT, INDIA**



Water Conservation Policy for CHARUSAT University Campus

1. Introduction

Charotar University of Science and Technology (CHARUSAT) is committed to sustainable water management by implementing efficient water conservation measures. This policy aims to reduce water wastage, promote efficient water usage, and ensure a sustainable water supply for the campus community.

2. Objectives

The primary objectives of this policy are:

- To reduce water consumption through efficient management and conservation practices.
- To promote rainwater harvesting and groundwater recharge.
- To encourage wastewater treatment and reuse.
- To increase awareness about water conservation among students, faculty, and staff.
- To monitor and optimize water usage across campus facilities.

3. Water Conservation Strategies

3.1. Water Audit and Monitoring

- Conduct periodic water audits to assess water usage and identify wastage points.
- Install smart water meters at key points to monitor real-time water consumption.
- Maintain records of water usage and develop strategies for reducing excess consumption.

3.2. Rainwater Harvesting (RWH)

- Implement rooftop rainwater harvesting systems in academic blocks, hostels, and administrative buildings.
- Construct recharge pits and percolation wells to enhance groundwater levels.
- Store harvested rainwater for non-potable uses like gardening and cleaning.





3.3. Wastewater Treatment and Reuse

- Establish a sewage treatment plant (STP) to treat campus wastewater.
- Reuse treated wastewater for landscape irrigation, flushing toilets, and cleaning purposes.
- Promote the use of eco-friendly treatment technologies like constructed wetlands and bio-filtration.

3.4. Efficient Water Use in Infrastructure

- Install water-efficient fixtures like aerated taps, dual-flush toilets, and sensor-based urinals.
- Encourage the adoption of low-flow showerheads and faucets in hostels and residential areas.
- Prevent water leakage through regular maintenance and quick repairs of plumbing systems.

3.5. Sustainable Landscaping and Irrigation

- Promote the use of native and drought-resistant plant species to minimize irrigation needs.
- Implement drip irrigation and sprinkler systems to optimize water use in green spaces.
- Schedule irrigation during early morning or late evening to reduce evaporation losses.

3.6. Student and Faculty Engagement

- Organize workshops, seminars, and awareness campaigns on water conservation.
- Encourage students to conduct research and projects related to sustainable water management.
- Form water conservation committees involving faculty, staff, and students to oversee policy implementation.

4. Implementation and Responsibilities

4.1 Campus Management: Oversee the installation and maintenance of water-saving infrastructure.

4.2 Engineering Department: Conduct regular water audits and ensure timely repairs.

4.3 Environmental Cell/Committee: Monitor compliance with water conservation measures.

4.4 Students and Faculty: Actively participate in conservation initiatives and report leaks or wastage.





5. Compliance and Monitoring

- Develop a water usage benchmark and set reduction targets.
- Conduct annual reviews and update strategies as needed.
- Implement a reporting system for water-related concerns and encourage feedback.

Signature

Principal
Chandubhai S Patel Institute of Technology

Signature

Registrar
CHARUSAT University

