

Policy Report on Water Conservation Facilities at ICEEM

- **Introduction:** Water is an invaluable resource essential for all living beings. It is very important for everyday and each life for drinking and for human being it is required for drinking, cooking, washing, bathing, gardening, cleaning, and various industrial uses. However, with increasing water scarcity and pollution, there is an urgent need for effective water conservation practices. ICEEM is dedicated to address this issue by implementing comprehensive water conservation facilities and strategies to ensure sustainable water use on campus.

- **Aims and Objectives:**

- **Primary Aim:**

- To promote sustainable water management practices across ICEEM's campus.

- **Detailed Objectives:**

- 1. Reduction in Water Consumption and Wastage:**

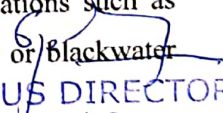
- To implement strategies to minimize overall water usage on campus which involves installing low-flow faucets, repairing leaky pipes promptly, and promoting water-saving practices in restrooms, laboratories, and landscaping.
 - To identify and address areas of water wastage through regular monitoring and analysis.

- 2. Enhancement of Groundwater Recharge:**

- To implement rainwater harvesting systems to capture and store rainwater for later use that involves rooftop collection, infiltration trenches, and storage tanks.
 - To explore well recharge techniques to replenish groundwater resource including well injection systems or directing harvested rainwater towards wells.

- 3. Utilization of Recycled Water for Non-Potable Purposes:**

- To develop a system to treat wastewater for reuse in non-potable applications such as irrigation, toilet flushing, and cleaning. This involves installing greywater or blackwater treatment systems.
 - To reduce reliance on freshwater sources for non-drinking purposes.


CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Add.: Gut No.4, Opp. Bajaj Auto Ltd. Main Gate, Aurangabad- Pune National Highway, Aurangabad - 431136 (MS) India.
Telephone : 0240 - 2558101 to 10 | Telefax 0240 - 2558111
Website : www.iceemabad.com | E-mail : director@iceemabad.com

4. Maintenance of Water Bodies and Efficient Water Distribution:

- To implement measures to maintain the health and cleanliness of on-campus water bodies (if applicable), such as ponds or lakes. This could involve preventing pollution, promoting healthy ecosystems, and minimizing water loss through evaporation.
- To ensure efficient water distribution across the campus by optimizing water flow and pressure, minimizing leaks in the pipeline network, and using smart irrigation systems for landscaping.

5. Education and Engagement of the Campus Community:

- To develop educational programs to raise awareness about water conservation practices. This could involve workshops, informational campaigns, and incorporating water conservation principles into the curriculum.
- To encourage the campus community to adopt water-saving behaviors in their daily routines. This involves promoting shorter showers, responsible laundry practices, and proper disposal of hazardous materials to prevent water contamination.

By achieving these detailed objectives, ICEEM's water conservation policy aims to create a sustainable water management system that minimizes environmental impact, ensures efficient water use, and fosters a culture of water responsibility within the college.

• Water Conservation Facilities:

1. Rainwater Harvesting: Rainwater harvesting plays a vital part of ICEEM's water conservation strategy. Recognizing the importance of water for both human and ecological needs, the College has implemented systems to collect and store rainwater for recharging wells and groundwater. This practice helps mitigate water shortages and reduces reliance on external water sources.

2. Bore Well / Open Well Recharge: ICEEM's primary water supply comes from a bore well system distributed across the campus. To enhance groundwater replenishment, the college also employs open well recharge techniques. These methods ensure a sustainable and continuous supply of water, addressing both current and future water needs.

3. Construction of Tanks and Bunds: In an effort to revitalize traditional water management

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practices, ICEEM has constructed bunds around the campus. These structures collect and store rainwater, which is then used for various domestic activities such as cleaning, concrete curing during construction, and gardening. The tank bunds have a storage capacity of 5,000 liters, significantly contributing to water conservation efforts.

4. Waste Water Recycling: Wastewater recycling is an integral part of ICEEM's water conservation strategy. Treated wastewater is reused for non-potable purposes, reducing the demand on fresh water sources. This practice not only conserves water but also helps in maintaining the ecological balance by preventing wastewater pollution.

5. Maintenance of Water Bodies and Distribution System: A well-maintained water distribution system is crucial for effective water management. At ICEEM, the distribution system ensures adequate water supply to all buildings and facilities with appropriate pressure and minimal leaks. The system includes pumps, water meters, valves, and pipe fittings. The College also prioritizes the efficient operation of its water delivery systems and RO plants, which have a capacity of 1,000 liters per day for producing drinking water. By ensuring no water wastage during pumping and storage, ICEEM saves both water and energy.

ICEEM's water conservation facilities and policies reflect a strong commitment to sustainable water management. Through initiatives like rainwater harvesting, bore well recharge, tank and bund construction, wastewater recycling, and efficient maintenance of water distribution systems, the college effectively addresses water scarcity challenges. These efforts not only foster a sustainable campus environment but also serve as a model for responsible water management practices.

Evidence of Activity:


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Groud Water Recharge Canal


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Telephone : 0240 - 2558101 to 10 | Telefax 0240 - 2558111

Website : www.iceemabad.com | E-mail : director@iceemabad.com



Bund / Tank



Open Well


IQAC Coordinator
International Centre of Excellence In Engg. & Mgmt.
Aurangabad


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International Centre of
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Director
Aurangabad

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