

JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

POLICY ON WATER TREATMENT AND RAINWATER HARVESTING

1. Purpose

The purpose of this policy is to ensure efficient water treatment and sustainable rainwater harvesting at JMJ College for Women (A), Tenali. This policy aims to optimize water usage, reduce wastage, and promote environmental sustainability.

2. Scope

This policy applies to all water sources, treatment plants, rainwater harvesting structures, and users within the college premises, including students, faculty, and staff.

3. Water Treatment System in Operation

3.1 Water Sources

- The primary sources of water for the college are groundwater from bore wells and municipal supply.
- The drinking water supply is treated using a Reverse Osmosis (RO) plant to ensure quality standards.

3.2 Water Treatment Process

- Raw water is collected from bore wells and municipal sources and directed to raw water tanks during the rainy season for percolation.
- The RO plant processes water to remove contaminants and provide safe drinking water.
- Wastewater from the RO plant is collected separately and reused for non-drinking purposes, such as gardening and sanitation.
- Periodic maintenance and quality checks are conducted to ensure the efficiency of the water treatment system.

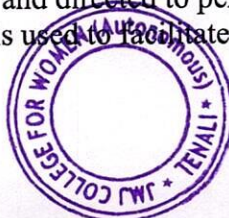
4. Rainwater Harvesting System

4.1 Objectives

- To collect and utilize rainwater for groundwater recharge and non-potable uses.
- To reduce dependency on external water sources.
- To prevent water runoff and wastage.

4.2 Rainwater Harvesting Mechanism

- Rainwater is collected from rooftops and directed to percolation pits and sumps.
- A network of channels and trenches is used to facilitate groundwater recharge.




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- Proper filtration is implemented to remove debris before the water enters the recharge pits.
- The estimated annual rainwater collection based on local rainfall is approximately 900 KL.

4.3 Maintenance and Monitoring

- Regular cleaning and inspection of rainwater harvesting structures.
- Periodic assessments to measure the efficiency of recharge and storage.
- Training sessions for staff and students on the importance of rainwater conservation.

5. Compliance and Responsibilities

- The college administration is responsible for maintaining the water treatment and harvesting systems.
- The Water Management Committee oversees implementation, compliance, and reporting.
- Faculty and students are encouraged to participate in water conservation initiatives.

6. Awareness and Training

- Conduct periodic workshops and campaigns to promote water conservation.
- Display informative posters on water-saving practices across the campus.

7. Review and Amendment

This policy will be reviewed annually, and necessary modifications will be made to enhance water management efficiency.

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