

# JMJ COLLEGE FOR WOMEN (AUTONOMOUS), TENALI

## POLICY FOR SEWAGE TREATMENT PLANT (STP) FACILITIES AND MAINTENANCE

### 1. Purpose

This policy aims to establish guidelines for the operation, maintenance, and monitoring of the Sewage Treatment Plant (STP) at MJM College for Women (A), Tenali. The goal is to ensure efficient wastewater treatment, compliance with environmental regulations, and sustainable water management practices within the institution.

### 2. Scope

This policy applies to the installation, operation, and maintenance of the Sewage Treatment Plant (STP) within the campus, including the treatment of wastewater generated from hostels, academic buildings, laboratories, and other institutional facilities, including discharge from the RO Plant.

### 3. Objectives

- Ensure proper treatment and disposal of wastewater to prevent environmental pollution.
- Maintain STP facilities in compliance with government and environmental norms.
- Promote the reuse of treated water for non-potable purposes such as irrigation, gardening, and sanitation.
- Conduct regular inspections and preventive maintenance of the STP system.
- Increase awareness among staff and students regarding wastewater management.

### 4. Facilities and Capacity

- The STP installed at MJM College for Women has a treatment capacity of 50 kilolitres per day (KLD).
- The plant consists of **primary, secondary, and tertiary treatment units**, including sedimentation tanks, bio-filters, aeration systems, and disinfection units.
- The treated water is utilized for irrigation and flushing, reducing dependence on fresh water.

### 5. Maintenance Policy

#### 5.1 Routine Maintenance

- Regular cleaning of screens, filters, and sludge collection units to ensure smooth operation.
- Inspection and servicing of aerators, pumps, and blowers as per manufacturer recommendations.
- Monitoring of sludge accumulation and timely sludge removal to prevent clogging.

#### 5.2 Preventive Measures



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- Implement preventive maintenance schedules to avoid system failures and inefficiencies.
- Conduct periodic checks on pipes, valves, and motors to detect leaks or blockages.
- Ensure proper disposal of solid waste and non-biodegradable materials to prevent damage to the STP system.

### 5.3 Water Quality Monitoring

- Regular testing of treated water for parameters such as pH, BOD, COD, TSS, and TDS to ensure compliance with regulatory standards.
- Maintain logbooks for monitoring records and submit reports to relevant authorities.
- Implement corrective actions in case of deviations from permissible limits.

### 6. Awareness and Training

- Organize training programs for maintenance staff on STP operations and troubleshooting.
- Conduct awareness sessions for students and faculty on wastewater management and conservation.
- Display informative signage near STP facilities to encourage responsible wastewater usage.

### 7. Compliance and Enforcement

- The Water Management Committee, in coordination with the administration, is responsible for enforcing this policy.
- Routine audits and performance evaluations of the STP will be conducted to ensure effectiveness.
- Corrective actions will be taken for any non-compliance with operational and environmental standards.

### 8. Review and Amendment

This policy will be reviewed annually, and necessary modifications will be made to enhance the efficiency and sustainability of the STP system.

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