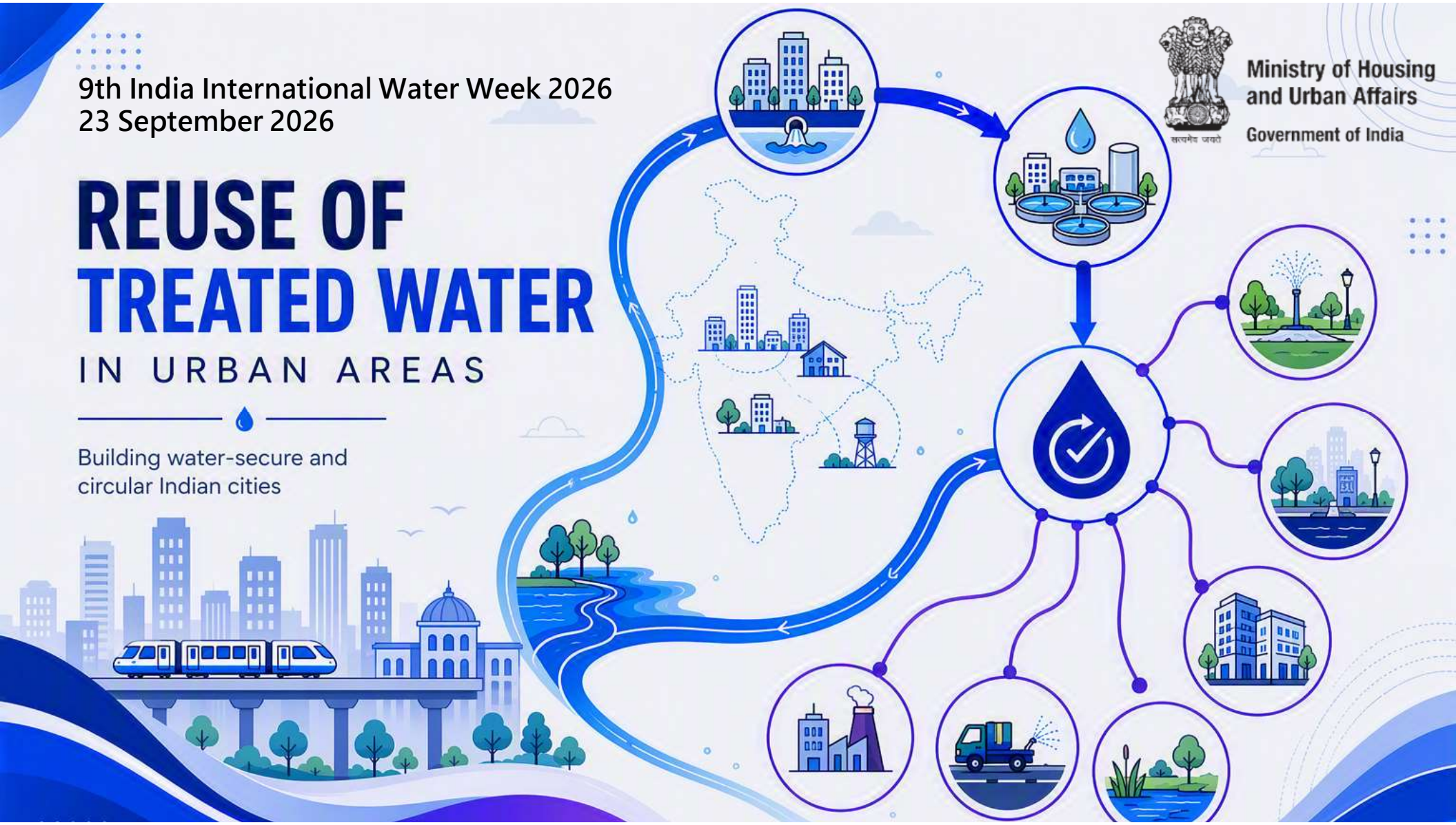
9th India International Water Week 2026
23 September 2026

REUSE OF TREATED WATER

IN URBAN AREAS

Building water-secure and circular Indian cities

Ministry of Housing and Urban Affairs
Government of India



AMRUT : Enabling Urban Water Circularity

Atal Mission for Rejuvenation and Urban Transformation

Towards Access

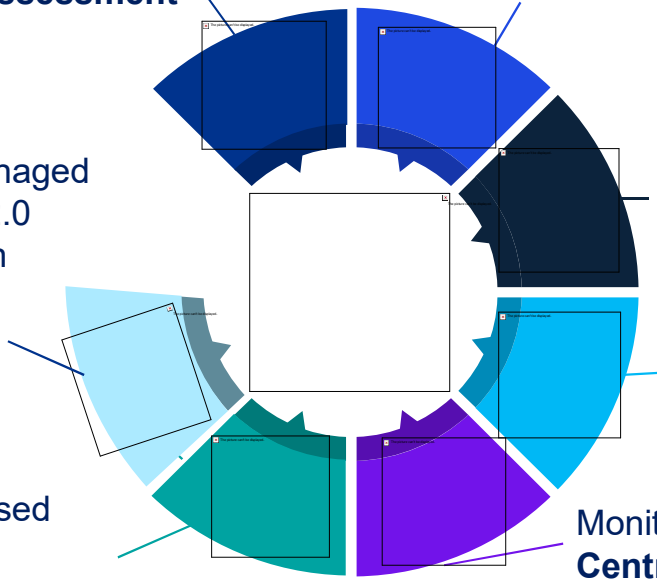
First Water-focused Mission launched in 2015 covering 65% urban population in 500 cities.

Atal Mission for Rejuvenation and Urban Transformation 2.0

Towards Water Secure Cities

Emphasis on sustainable drinking water services, 24×7 supply, source security and wastewater reuse.

Key Features of AMRUT 2.0



Decentralized approach- **As-is & demand assessment**

Sector focused reforms with incentives- **Jal Hi Amrit, AMRUT reforms**

Paperless mission managed by AMRUT 2.0 Collaboration Portal

Capacity building- **AMRUT MITRA City Managers & Contractors**

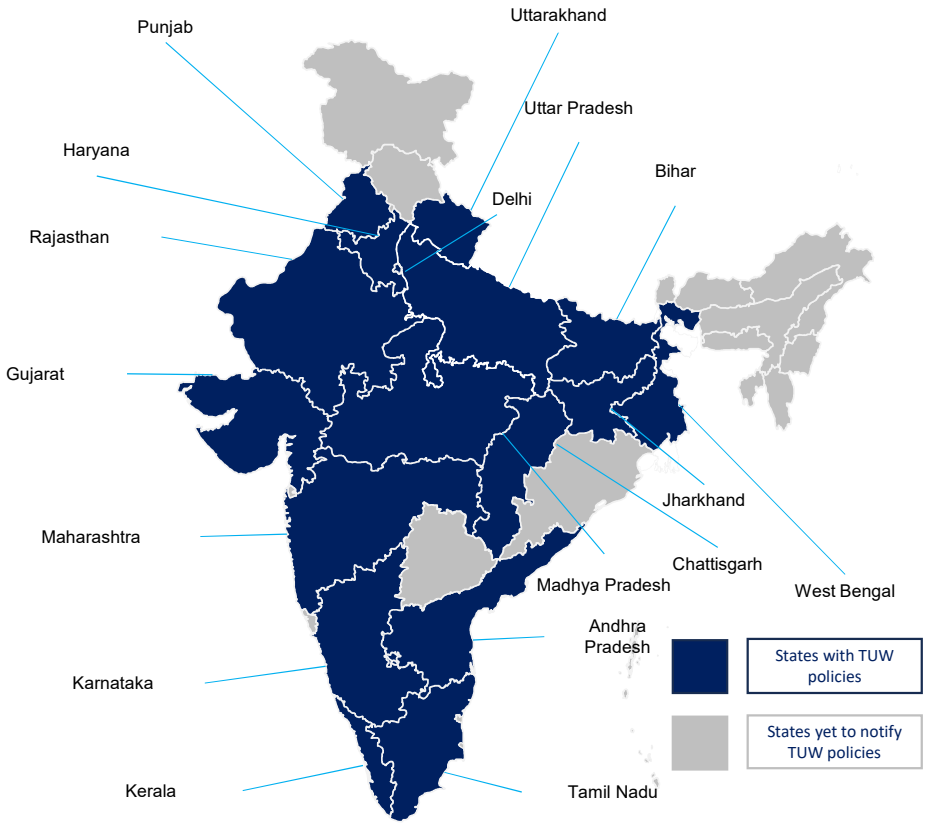
Partnerships- **Start-up Challenge PPPs**

Outcome-based funding- **Gig model**

Monitoring and Evaluation: **Centralized IRMA**

National Framework and State-Level Action on Water Reuse

A total of 17 states and UTs have notified policies on reuse of treated used water



Vision of the National Framework on Safe Reuse of Treated Water (2022)

- Reducing the pressure on scarce freshwater resources
- Reducing pollution of the environment and risks to public health
- Achieving socio-economic benefits by adopting a sustainable circular economy approach.

Applications of treated water in the NMCG framework

- Industry like power generation and railways
- Agriculture and aquaculture
- Municipal uses (e.g., landscaping and fire- fighting)
- Environment, including discharge into surface water bodies
- Maintenance of wetlands and environmental flows
- Construction
- Landscaping and cleaning of desludging vehicles in STPs
- Aquifer recharge

Operationalizing Water Circularity through Jal Hi AMRIT

Objective

Jal Hi AMRIT (JHA) focuses on enhancing UWTP operations and supporting its transformation into a Resource Recovery Facility bringing **circularity to urban used water management.**

- **Clean Water Credits (Star Rating)**
- **Performance based Incentive**
- **Promote Water Circularity**

Incentivized Interventions

- Renewable Energy
- Biosolids Management
- Technology Advancement
- Real-time Monitoring
- Infrastructure Upgrades
- Operational Efficiency
- Capacity Building



Scale up Strategy: Jal Hi AMRIT 2.0

86 Plants with 22,000 MLD capacity participated

2 States/UTs set up Water Resource Recovery Cells (WRRCs).

5 States/UTs adopted State Reuse Policies

700 Certifications issued for plant operators, managers and technical staff

0+

No of Plants with their ratings

1	★★★★★	1	★★★★	2	★★★
1		9		6	

JHA 2.0 builds on the success of JHA 1.0 by incentivizing participation

- Improving plant performance
- Sustaining compliance
- Incentivizing treated wastewater reuse at scale.

Scalable Models of Treated Wastewater

Bengaluru: Landscape Scale Water Replenishment

- ✓ 350 MLD treated wastewater diverted to recharge 126 tanks across Kolar and Chikkaballapur.
- ✓ 150 MLD reused for restoration of 65 lakes, strengthening regional water security.
- ✓ 55 MLD supplied to Anekal Taluk, supporting 75 lakes.
- ✓ Improved groundwater levels and water quality across beneficiary regions.



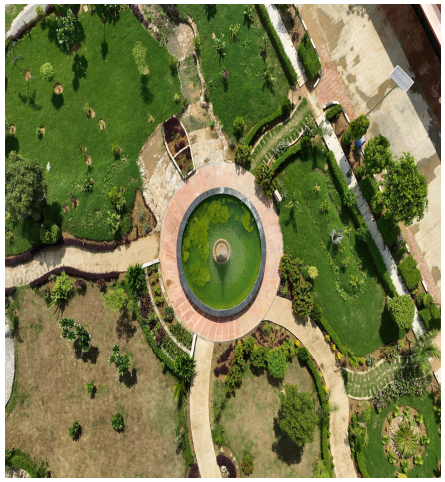


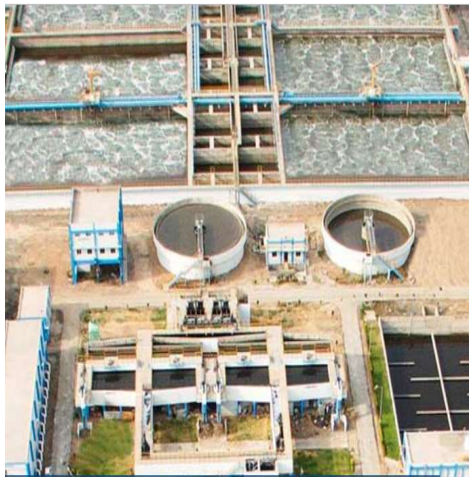
Chennai: Industrial Reuse at Scale

- ✓ 45 MLD TTRO capacity operational at Kodungaiyur and Koyambedu.
- ✓ Expandable to 60 MLD, enabling future industrial demand.
- ✓ Reliable supply of reclaimed water to industries, reducing freshwater dependence.
- ✓ Serving over 500 industrial units, creating a sustainable reuse market.

Rajasthan: Wastewater to Wealth

- ✓ 120-140 MLD wastewater treated daily.
- ✓ 30,000+ trees developed within plant premises, enhancing green cover and carbon sinks.
- ✓ 6,500 Nm^3/day biogas recovered and monetized through industrial off-take.
- ✓ ~₹12 lakh/month revenue generated, demonstrating financial viability of reuse and recovery.





Indore: Energy & Resource Recovery

- ✓ 245 MLD sewage treatment capacity using Activated Sludge Process.
- ✓ 60.1 MLD wastewater currently recycled with potential to reach 100 MLD.1.2 MW renewable energy generated from treatment operations.
- ✓ 20% energy demand offset, saving approximately ₹15-20 lakh annually.

Innovative Solutions of Reuse by Startups

Trans Water System Pvt Limited

- ✓ **Decentralised potable water recovering system**
- ✓ BOSON White Water system **treats wastewater from residential societies**, viewing it as a valuable resource.
- ✓ This **reduces the demand for fresh water.**





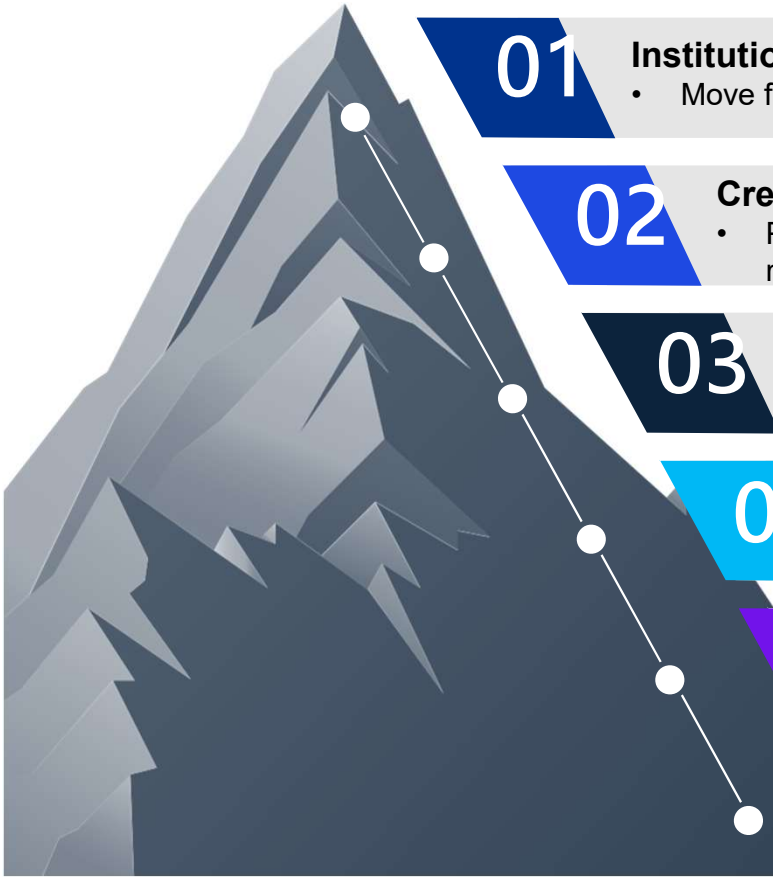
Jalconserve Technologies Pvt Ltd

- ✓ Provide **on-site sustainable greywater recycling solution**
- ✓ **Conservation of 30-35 per cent of fresh water** every day by reusing greywater in toilet flush tanks and gardening
- ✓ Reduced load on the septic tank/wastewater disposal system
- ✓ **35 Projects across 20 cities developing 250 KLD capacity.**



Way Forward: Accelerating Urban Wate





01 Institutionalize Reuse as a Core Urban Water Service
- Move from wastewater treatment to wastewater resource management.

02 Create Sustainable Demand for Treated Water
- Prioritize reuse in industry, utilities, landscaping, construction and water body rejuvenation

03 Integrate Reuse into Urban Planning
- Embed treated water reuse in city master plans and infrastructure investments

04 Strengthen State and City Reuse Frameworks
- Support reuse targets, standards, pricing mechanisms and monitoring systems

05 Leverage Innovative Financing & Partnerships
- Promote PPPs and market-based models for reuse infrastructure
.

06 Advance Data-Driven Water Governance
- Digital tracking of wastewater generation, treatment and reuse outcomes

Thank You

Building water-secure and circular Indian cities

