

GROUNDING CLIMATE RESILIENT WASH ACTION IN SMALL TOWNS - CHIKKABALLAPURA

(Jointly convened by the District Urban Development Cell (DUDC), BORDA, FISH and TIDE)



Unlocking Reuse Potential in India's Small Towns: A Structured Approach to Treated Used Water Reuse

Reuse Readiness Framework

The **Treated Used Water Reuse Readiness Framework (TUW-RRF)** provides a structured, three-stage process to help towns identify gaps, prioritise actions, and plan safe and viable treated used water reuse.

1 Establishing Need

Maps town characteristics (land use, topography, climate risks) and identifies priority demand centres across municipal, residential, commercial, institutional, agricultural, environmental, and industrial sectors, within and around the town, to determine where reuse makes most sense.

2 Assessing the Resource

Reviews used water generation, collection, UGD coverage, treatment capacity and quality, and associated costs to understand what quantity and quality of TUW is realistically available.

3 Ensuring Viability

Evaluates technical gaps, user demand, costs, financing options, governance, and regulatory factors to confirm whether reuse is practical, bankable, and institutionally workable.

Background



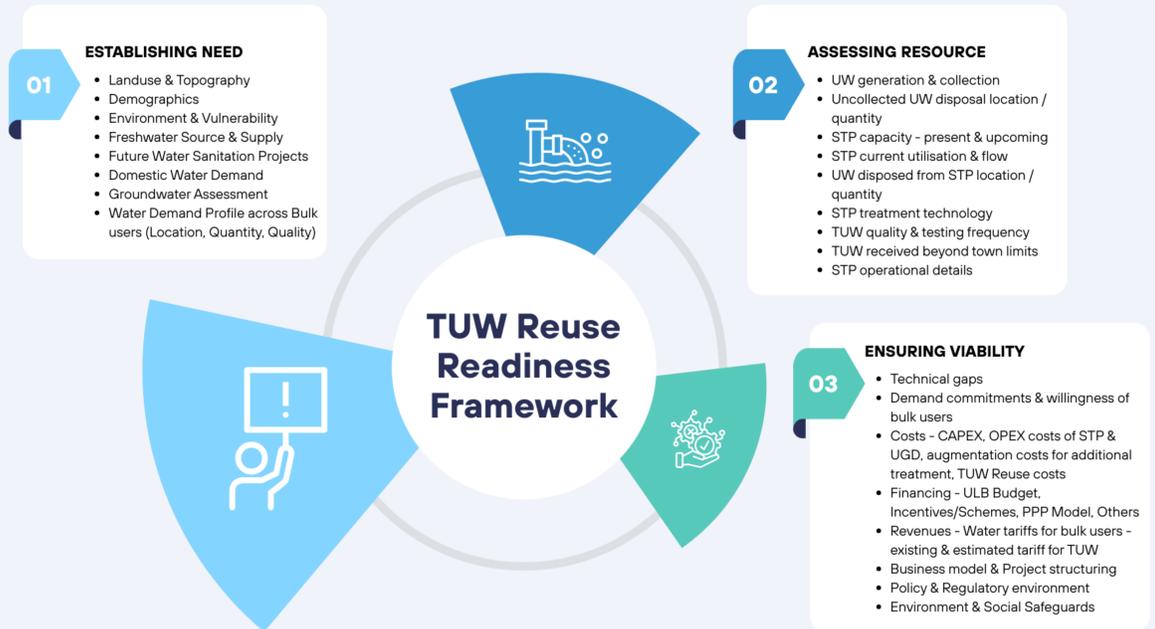
India generates **72,000+ MLD** of used water daily, but only **28% is treated**, intensifying pressure on rivers, aquifers, and urban water security.



Despite national mandates prioritising treated used water (TUW) reuse, **treatment and reuse remain at only 30% across Class I & II towns.**



Small towns, growing rapidly yet constrained by weak systems and fragmented governance, need a structured framework to assess and operationalise TUW reuse.



Adaptive Practices from Karnataka



Chintamani

- Population: 102568
- Area: 15 sqkm
- City Municipal Council
- Agriculture/ Floriculture/ Horticulture based economy
- 70% dependency on ground water
- Current STP: 2MLD
- Upcoming STP: 7 MLD
- TUW available: 6.7 MLD

Potential Bulk Users for TUW Reuse

Industrial, Commercial, Landscaping, Bus Depot, Construction, Aquifer Recharge



Hebbagodi

- Population: 132000
- Area: 9.11 sqkm
- City Municipal Council
- Home to major tech and pharmaceutical companies
- 96% dependency on ground water
- Current STP: nil
- Upcoming STP: 24 MLD
- TUW available: 15 MLD

Potential Bulk Users for TUW Reuse

Agriculture/ Horticulture/ Floriculture, Aquifer Recharge, Landscaping