

Grey Water Management: District Kanpur Nagar

1. Progress since 2020 (SBM-G Phase II)

Since the inception of SBM(G) Phase II in 2020, Kanpur Nagar has prioritized the scientific management of liquid waste to achieve **ODF Plus** status. The district has successfully implemented both community-level and individual-level interventions:

- **Community-Level Assets:** Over **40 Waste Stabilization Ponds (WSP)** and **Constructed Wetlands** have been established to treat grey water from clustered households.
- **Household/GP Level:** More than **6,000 soak pits** have been constructed across various Gram Panchayats (GPs), ensuring that kitchen and bathroom runoff is managed at the source, preventing waterlogging in lanes.

2. Challenges Faced

Despite significant progress, certain bottlenecks remain in achieving 100% saturation:

- **Topography & Drainage:** Challenges in gravity-based drainage in low-lying villages.
- **Solid-Liquid Mixing:** Entry of solid waste into grey water channels, leading to frequent choking of filters.
- **O&M Sustainability:** Ensuring regular cleaning of silt chambers and screening bars at the community level.

3. Way Forward & Targets for the Upcoming Year

To ensure **saturation and sustainability**, the district has set ambitious targets for the upcoming financial year:

- **Infrastructure Expansion:** Construction of **100 additional WSPs/Wetlands** to cover larger drainage volumes.
- **Technical Refinement:** Implementation of small-scale treatment units, including **filter chambers and silt catchers**, in more than **200 Gram Panchayats**.
- **Solid Waste Interception:** To protect the GWM assets, **screen bars** will be installed at all drainage exit points to prevent floating solid waste from entering treatment zones.
- **Residual Coverage:** A cluster-based approach will be used to ensure every residual village in the district is covered under GWM by the end of the cycle.

4. Operations & Maintenance (O&M) Arrangements

To ensure the long-term functionality of these assets, the following O&M framework is being attached:

Feature	O&M Responsibility
Institutional Hook	GPs to utilize 15th Finance Commission funds for regular maintenance of WSPs and wetlands.
Community Engagement	Engaging Vigilance Committees (VWSC) and local 'Swachhagrahis' and safai karmi for weekly cleaning of screen bars and silt chambers.
Technical Audits	Quarterly inspections by the District/Block engineering wing to ensure no overflow or stagnation.