

IIWW 2026 · PF3

Ensuring Sustainability of GWM Assets through Institutionalized O&M practices.

Director General Rural Sanitation & Mission Director - SBM(G)
Directorate of Rural Sanitation , Jammu & Kashmir

Greywater Ecosystem in rural Jammu & Kashmir

Status of construction across households and community-level infrastructure

Existing Assets	
 Kitchen Garden at Household Level	4,62,269
 Soak Pits at Household Level	3,36,807
 Community Soak Pits	12,000
 DEWATS	135



Pre-Planning for O&M is done to ensure long term sustainability of assets

Total Existing Gwm Assets	8,11,121	In progress	4,72,829

Challenges for O&M of Greywater assets in J&K

Jammu & Kashmir's extensive network of rivers & streams is a vital natural asset supporting communities and while also being part of environmentally sensitive ecosystems

Damaging to pipes due to freezing water in winters

Difficult Terrain

Scattered Households

Frequent Floods

Abundant Water Bodies

Diverse Terrains

- Plains
- Hills
- Valleys

Varied Habitations

- Dense Habitations
- Scattered Habitations
- Peri-Urban Areas
- Variation in Village Population

Varying Water Tables

- High Water Table : District Srinagar
- Low Water Table : District Samba

Variable Climatic Conditions

- Snow Bound and : All **10 Districts** of Kashmir Region partially **5 Districts** of Jammu
- High Rainfall : Jammu, Kathua, Udhampur, Samba & Kashmir
- Low Rainfall : Majority Districts in Kashmir Province and Poonch, & Rajouri of Jammu region.

In J&K, GWM planning follows terrain, climate, settlement pattern and site conditions, not a one-size-fits-all approach.

PRI Grants Built into GWM Planning for O&M in J&K

PRI fund is provided to every GP, so that every asset has a funding support and a tracking system

FUNDING FOR O&M

10% Of Panchayati Raj Institution (PRI) grants earmarked for O&M of sanitation assets

₹1.66 Lakh / GP / year

INTEGRATION IN AT POLICY LEVEL

- Notified Vide Govt. Order No :RDD-ACTT0GENL/93/2025-(7710243) DT.08/06/2026.
- UT O&M policy and SOP guide field functionaries on day-to-day O&M
- GPDP framework builds O&M of community sanitation assets into long-term planning

Why PRIs Fund

SBM-G (capital)

Swachh Bharat Mission (Grameen) funds the capital cost of assets such as DEWATS; O&M costs are not covered under SBM(G) funds.
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Non-Functionality

Lack of funds for O&M will lead the asset towards Non-functionality and then to environmental pollution.

Avoiding delays

Delays in O&M may result in higher expenditure to restore these assets to functional condition.

Other Fund Arrangements

Capex

GP capex funds are also available for minor repairs & maintenance.

VB-G RAM G

Labour budgets cover works like desilting, clearing channels and rebuilding damaged infrastructure.

User charges

User charges are being utilized for regular O&M and minor repairs.

People's Participation: Local Ownership of O&M

Community ownership of GWM assets ensure long term sustainability of the assets

Decentralized committees

Ownership built among the Community, SHGs, Youth Clubs and Mahila Mandals through community engagement.

MoUs with SHGs

Gram Panchayats sign MoUs with Self-Help Groups (SHGs) for regular O&M of assets.

Local ownership

Village Water & Sanitation Committees (VWSCs) strengthened through IEC and capacity building; SHGs and VWSCs drive upkeep.

Community-led drives

Community Supported Cleanliness and sanitation drives, keep assets clean and hygienic.

Field support

A dedicated field staff visits assets regularly and works with local communities.


DG Rural Sanitation J&K Inaugurates Park in Kulgam, built over a series of Soak Pits catering to more than 100 Households




Work in progress at a treatment bed


Field visit for sustainability


Field visit to monitor under construction work

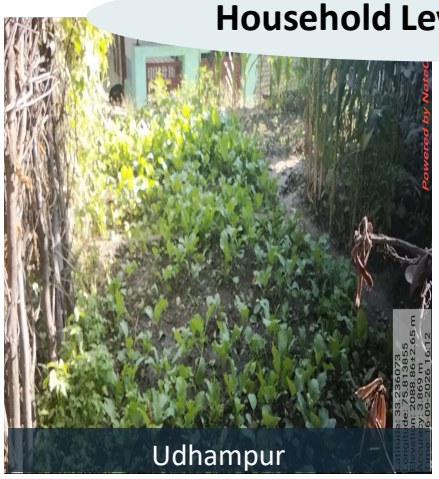
Sustainable Greywater Management: Leveraging Household & Community Assets

J&K's hilly areas and scattered villages need **decentralized GWM solutions**. Reusing greywater for **kitchen gardens** at household level can conserve water, enhance resource efficiency and create greener communities

Use of IEC/BCC tools and techniques to encourage rural families to construct and manage **Individual Soak Pits** for effective **Greywater Management**

Community Level GWM assets like : Community Soak Pits, DEWATS are constructed in & around dense habitations where GWM arrangements are not feasible at Individual level.

Household Level Interventions





Community Level Interventions







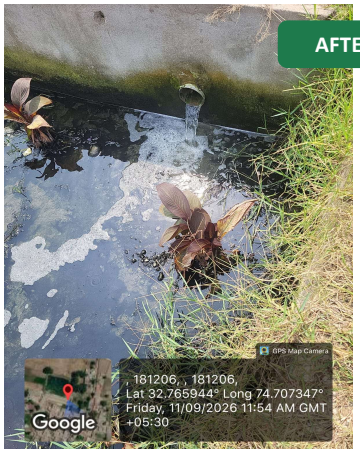


DECENTRALIZED TREATMENT - (DEWATS)

Reducing Contamination of Water Bodies, Rivers & Streams



Untreated greywater discharge into pond

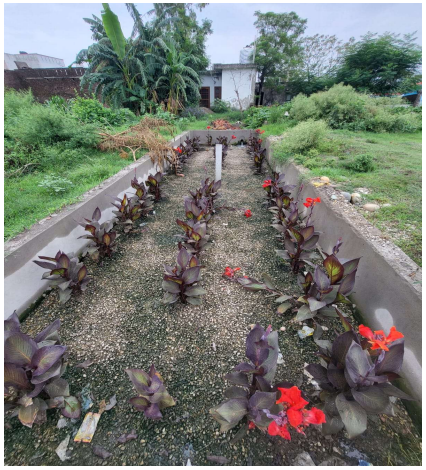




No electricity, non polluting — just clean water



Capacity 25 KLD
Technology DEWATS
Project Cost ₹14.86 Lakh
Funding Source SBM(G)
Location - Bari Brahmana (Samba)





Capacity 110 KLD
Technology DEWATS
Project Cost ₹42.95Lakh
Funding Source SBM(G)
Location - Marh (Jammu)





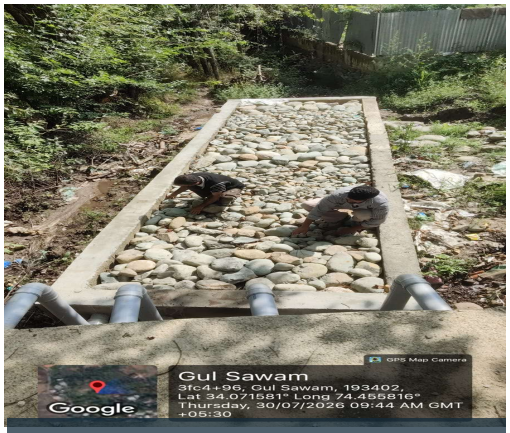
Capacity 25 KLD
Technology DEWATS
Project Cost ₹12.50 Lakh
Funding Source SBM(G)
Location-Samba

BOD & COD Reduction Rate 80 – 90%

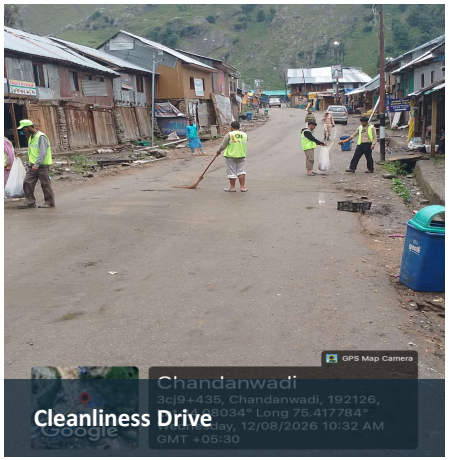
Sustainable Operation & Maintenance of Sanitation Assets

A dedicated **field staff** carries out regular field visits and works with local communities to keep every GWM asset functional and clean.

- ✓ Regular field visits by the dedicated field Staff.
- ✓ Community-led cleanliness drives
- ✓ O&M of Sanitation Assets



O&M of Sanitation Assets



Cleanliness Drive


Field visit for sustainability



Field visit for sustainability


Volunteer Clean-up Crew



Water Body Cleaning – Kullan

Water Conservation & Treated-Water Reuse

A sustainable approach for diverse areas of J&K.

1

Water Treatment and Conservation at the same time

The challenge that shapes the approach

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2

Conserve at source

- Rainwater harvesting through IWMP.
- Recharge structures
- Reduction of water wastage

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3

Treat wastewater

- Construction of Soak Pits, DEWATS or other suitable GWM systems
- Treated water meets reuse requirements

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4

Reuse treated water

- Kitchen gardens, horticulture
- Landscaping, plantation
- Road, public-area cleaning
- Other non-potable uses

›

5

Outcome

- Reduced freshwater demand
- Improved water quality
- Reduced Water Pollution/contamination

Community pond



Community pond Jammu



Pond in a community park



"Treat wastewater as a resource: conserve freshwater and safely reuse treated water wherever feasible."

Community-owned. Digitally tracked. Sustainably maintained.

Strategy for Ensuring O&M

Fund Provision

10% of PRI grants (₹1.66L/GP/yr) reserved for O&M, along with funds available with Capex, VB-G RAM G, IWMP, etc.

Committee Strengthening

VWSCs strengthened through IEC & capacity building.

Extensive use of IEC/BCC

IEC/BCC tools were used for disseminating importance of GWM among rural communities.

Robust Monitoring

A structured mechanism monitors O&M activities closely.

Digital Asset Tracking

Asset-wise O&M registers tracked via the mWater portal.

Defined Roles

Clear duties set for VWSC(Planning) ,GP(Implementation), SHGs (O&M) & frontline staff.

Sanitation Drives

Community-led drives keep assets clean & hygienic.

Nature Based Technology

Cost-effective and Nature-based technology that do not require electricity etc, are being used.

SHG Partnerships

MoUs signed with SHGs for regular O&M of assets.

O&M Policy

Provides a clear SOP guiding field functionaries on day-to-day O&M activities.

Tracking and accountability

mWater portal

UT-specific portal monitors functionality, O&M and other issues of every asset, with asset-wise O&M registers.

Mandatory geo-tagging

All repaired or desilted assets are updated on the portal, so there is no duplicate reporting.

Monthly Reviews

Regular District & Block reviews , field inspections to ensure functionality and O&M of GWM assets.

Objective : To keep Rivers, Lakes and other Water Resources, falling/route through rural areas, clean and pollution free.

Shree Amarnath ji Yatra 2026: Managing Peak Greywater Loads

CHALLENGE

- **High Footfall:** 5-6 lakh pilgrims generate substantial greywater during the Yatra season.
- **Community Kitchens:** Effective GWM for public langar facilities / Army Camps.
- **Tough Terrain / Soil Constraints:** Conventional drainage systems are not suitable for the high-altitude
- **Design Objective:** The system should be designed to manage peak greywater loads efficiently





1 Drainage System

- Provided drainage system from high-load areas

2 Pre-treatment at source

- Grease traps to remove oil, grease and food waste from langar wastewater
- Collected sludge is transported by desludging vehicles to designated tanks.

3 Baltal Base camp : load-based disposal

Pre-treated greywater is discharged into :

- soak pits/ leach pits
- infiltration trenches

4 Nunwan Base camp: treat and reuse

- Wastewater collected in underground tank
- Regularly desludged & nearby STP for final treatment

5 Remote high-footfall sites

Areas with limited drainage/ vehicle access -

- Decentralized soak pits, leach pits,
- Trench systems

OUTCOME

Greywater management in high footfall events in decentralized and environmentally safe manner

SANJY 2026 — Impact at a Glance

Sanitation outcomes delivered across the Yatra footprint

1546
Baths Installed

412.89 MT
Waste Collected & Processed

45,497
Total Yatri Feedback Received

16,845
Swachhata Pledges Taken

440 ML
Approx. Grey Water Treated /Managed
(5 lakh Pilgrims and 1 Lakh Army & other Staff for 60 Days Yatra)

10,020
Responsible Yatri Certificates Issued

1,49,400
Cloth Bags Distributed

255 / 107
Bartan Bank: Items Issued / Returned

260
Sewa Cafe Reusable Bags

6646
Toilets Installed (Black water Treated through STP/Leach Pit)

WAY FORWARD

Enduring Outcomes & Ensuring Long-Term Sustainability

1. Operationalise user charges for community GWM Systems
2. Complete VB-G RAM-G convergence for desilting, channel clearing and rebuilding damaged assets.
3. Scale community and cluster systems (soak pits, DEWATS) wherever household-level solutions fall short.
4. All assets to be mapped on the m-Water platform to assess their functionality status.





Thank you

Directorate of Rural Sanitation · Jammu & Kashmir