

PUBLIC NOTICE

Shillong: 14th April 2026

INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR DEVELOPMENT OF PROTOTYPE ON HOUSEHOLD LEVEL GREYWATER TREATMENT SYSTEM

The Directorate of Urban Affairs, Government of Meghalaya, invites Expression of Interest (EOI) from interested Firms/Agencies/Institutions/Start-ups/Technical Organizations for the designs, development of a prototype for a Household Level Grey water Treatment and Reuse System.

BACKGROUND

Grey water generated from domestic activities such as bathing, washing, and laundry constitutes a significant portion of wastewater. In line with sustainable water management practices under Swachh Bharat Mission (Urban), the Directorate of Urban Affairs proposes to promote decentralized, cost-effective greywater treatment solutions at the household level.

OBJECTIVE OF THE PROTOTYPE

- To develop a functional and household model for grey water treatment at source
- To ensure safe reuse for non-potable purposes such as gardening and flushing
- To promote low-cost, eco-friendly, and locally adaptable technologies

SCOPE OF WORK

Interested participants shall:

- Design and develop a working prototype based on natural and cost-effective materials
- Incorporate multi-stage filtration system (screening, organic media, sand, gravel, etc.)
- Ensure ease of operation and maintenance
- Demonstrate the system's effectiveness for household-level application.
- The design must be modular, adaptable for individual households, and scalable in multi households/apartmentsetc. and capable of handling varying flow rates as per requirements

Details as Annexure-I.

ELIGIBILITY CRITERIA

- Should have experience in designing or building waste water treatment system
OR
- Has experienced in works related to waste water treatment system

GOVERNMENT OF MEGHALAYA
DIRECTORATE OF URBAN AFFAIRS: MEGHALAYA, SHILLONG
LUM SHYLLONG, SECRETARIAT HILL:: SHILLONG - 793001

SUBMISSION DETAILS

Interested parties may submit their Expression of Interest along with:

- Concept note/design details
- Technical approach and innovation features
- Estimated cost and materials
- Experience/credentials

SUBMISSION ADDRESS

Office of the Directorate of Urban Affairs Government of Meghalaya
Lumshyllong, Secretariat Hills, Shillong 793001

ADDITIONAL INFORMATION

- Shortlisted participants may be invited for presentation and demonstration
- The Directorate reserves the right to accept or reject any or all proposals without assigning any reason

LAST DATE FOR SUBMISSION

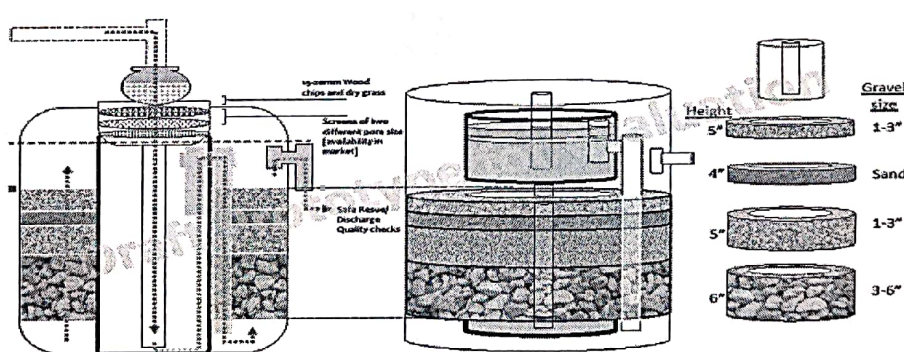
15th May 2026 till 05:00 PM



Annexure-I

- **Targeted Use:** The prototype must be designed to treat wastewater from kitchens, bathrooms, and laundry (excluding toilets) to non-potable standards for reuse in irrigation or toilet flushing.
- **Technical Viability & Scalability:** The design must be modular, adaptable for individual households, apartmentsetc. and capable of handling varying flow rates (e.g., maximum 50–55 L/h for small systems).
- **Affordability and Material Accessibility:** Prototypes should utilize locally available, cost-effective materials (e.g., gravel, sand, carbon) to ensure the system is financially feasible for average households.
- **Simplicity and Maintenance:** The system must be easy to install and maintain without requiring high-level technical expertise, focusing on gravity-based filtration to avoid excessive energy consumption.
- **Quality Standards:** The treated water should meet specific aesthetic and safety criteria, such as reduced total dissolved solids (TDS) and pH levels as per standard norms.
- **Preferable:** Prototype with proven technical capability

SAMPLE DESIGN




FILTRATION TANK (MULTI-LAYER MEDIA SYSTEM)

The primary treatment is carried out through a vertical filtration tank consisting of the following layers:

SN	Material	Size	Thickness	Function
1	Gravel	1–3 inch	~5 inch	Removal of coarse particles
2	Sand	Fine	~4 inch	Filtration of fine particles
3	Gravel	1–3 inch	~5 inch	Secondary filtration
4	Coarse Stones	3–6 inch	~6 inch	Drainage and structural support

If any other design meeting the prescribed criteria for the household grey water treatment system is available, the same may be duly incorporated and forwarded for approval.

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Director
Directorate of Urban Affairs
Government of Meghalaya
Shillong: 14th April 2026

Memo No. SBM/MEG/20/2023/63-A

Copy to:

1. P.A to the Commissioner & Secretary to the Government of Meghalaya, Urban Affairs Department for information of Commissioner & Secretary.
2. P.A to the Secretary to the Government of Meghalaya, Urban Affairs Department for information of the Secretary.
- ✓ 3. The Directorate of Information and Public Relations (DIPR) Meghalaya, with a request to publish in Daily News Papers
4. Senior Informatics Officer, NIC Meghalaya for information and necessary action.
5. Concern Branch.


Director
Directorate of Urban Affairs
Government of Meghalaya

