



Green Resilience And Cooperation
For Ecosystem (GRACE)

NEWSLETTER



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**Integrated Water
Resource
Management Initiative
of GRAC**

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About Us

Since 2013, GRACE has been empowering grassroots coastal communities in the South Coastal Region of Khulna, Bangladesh. As a National Community-led NGO, we focus on sustainable development in areas such as urban resilience, social entrepreneurship, climate change, WASH, health and Nutrition, education, and women's empowerment, Youth Employment. Our mission is to build resilience, improve livelihoods, and create lasting change in the lives of the most vulnerable communities. Join us in shaping a better future for these communities.



MAJOR CHALLENGES RELATED TO WATER IN KHULNA, BANGLADESH

- **Water Scarcity**
- **Salinity Intrusion**
- **Water logging**
- **Declining Groundwater Levels**
- **Inefficient Irrigation Systems**
- **Access to Safe Drinking Water**
- **Shortage of daily household using water**
- **Contamination of Water Sources**
- **Poor Water Management**



GRACE
APRIL 2026

The real facts and findings are evident in the South Coastal region of Khulna.

In Khulna, Bangladesh, water scarcity has been a growing concern over the last nine years, with water levels dropping by 4-13 feet between February and June each year (Prothom Alo, Somoy TV, Jamuna News). This scarcity is compounded by rising salinity, making water unusable for basic daily activities like bathing, washing, cooking, and more. Salinity intrusion and water logging further degrade water quality, while many landowners leave their land idle due to profit-making motives or migration. This results in harmful environmental conditions, impacting public health.

Additionally, families face difficulties in rearing poultry, livestock, and cultivating vegetables at home due to water shortages. Many families are unaware of how to reduce expenses or generate income through small-scale initiatives at the homestead level. Most rooftops lack greenery, contributing to heat buildup. Climate change is exacerbating these challenges, as rising temperatures further affect living conditions.

However, if rooftops were used for green practices like gardening and rainwater harvesting, families could benefit from reduced heat, organic waste management, and sustainable irrigation, ultimately decreasing their reliance on groundwater and mitigating the negative impacts of water scarcity.

Key Issues:

- **Access to Safe Drinking Water** remains limited.
- **Shortage of water** for daily household use.
- **Contamination of water sources** due to salinity intrusion.
- **Poor water management** leading to unsustainable practices.



To tackle some of the most pressing challenges, GRACE has initiated...

The **GRACE Initiative** focuses on addressing water management challenges in the Khulna Urban and Peri-Urban areas by providing comprehensive support to 250 households. Through targeted **training sessions, counseling, and household visits**, the initiative aims to promote local adaptation of sustainable water management practices. GRACE offers **input support** to empower families with knowledge and tools for efficient water use, including rainwater harvesting and conservation methods. By engaging with local communities, the initiative seeks to improve water accessibility, reduce dependency on groundwater, and enhance overall water resource management, contributing to a more resilient and sustainable water system for the region.

OUR INITIATIVES

Intervention-1

Building Urban Resilience: Empowering Households with **Sustainable Organic Food Production** through **Rainwater Preservation**

Intervention-2

Creating a Green & Clean Environment: **Urban Rooftop Gardening** Powered by **Drip Irrigation & Rainwater Harvesting**

Intervention-3

Sustainable Water Solutions: Ensuring **Daily Household Water** Needs in Khulna through **Rainwater Harvesting**

Intervention-4

Zero Groundwater & Energy: Transforming South Coastal Khulna with **GRACE Agro Innovation Lab** Powered by **cannel based Rainwater Preservation**



Intervention	URL	QR
Intervention-1 Organic Food Production Urban homestead Gardening	https://url-shortener.me/KLEY	
Intervention-2 Urban Rooftop gardening	https://url-shortener.me/KLH5	
Intervention-3 Daily Households Water Needs	https://url-shortener.me/KLHJ	
Intervention-4 Zero Energy & Water	https://url-shortener.me/KLHS	

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