



Activity Report

on

**UNICEF supported DPHE WASH Emergency Response Program for Cyclone
Remal'24 affected areas of Barisal and Khulna Division (1st Phase)**

24 October, 2024

Store Circle

Department of Public Health Engineering Department

1. Introduction

In response to the catastrophic impact of Cyclone Remal, which struck the coastal regions of Bangladesh on May 24, 2024, the Department of Public Health Engineering (DPHE), in collaboration with UNICEF, initiated the "UNICEF Supported DPHE WASH Emergency Response Program." This comprehensive project aims to address the critical water, sanitation, and hygiene (WASH) needs of the affected communities in Barisal and Khulna divisions, where the cyclone left a trail of devastation, displacing thousands and damaging essential infrastructure.

Cyclone Remal wreaked havoc across the coastal landscape, leading to widespread flooding, the destruction of homes, and the contamination of water sources. Many communities faced severe challenges in accessing safe drinking water and sanitation facilities, exacerbating the risk of waterborne diseases and public health crises. In recognition of these urgent needs, the project focuses on improving emergency WASH conditions across 7 districts and 20 Upazilas.

To achieve this, the project encompasses 12 targeted activities designed to restore and enhance water and sanitation infrastructure. These activities include the repair and reconstruction of shallow and deep tube wells, the rehabilitation of rainwater harvesting systems, and the installation of new water supply solutions, such as piped networks and reverse osmosis plants. Additionally, the project emphasizes the construction of safe sanitation facilities, including twin-pit latrines, to ensure the health and dignity of affected populations.

This quarterly activity report aims to evaluate the progress of the project, detailing the implementation status of each initiative and the impact on the affected communities. By providing insights into the performance of the project over the past quarter, this report highlights achievements, challenges faced, and the overall effectiveness of interventions in improving WASH conditions in the cyclone-affected areas.

2. Project Overview:

This program specifically targets seven districts and 120 upazilas, focusing on the most vulnerable communities. The overarching goal is to mitigate the adverse effects of the cyclone by ensuring that residents have access to safe drinking water and improved sanitation facilities. To achieve this, the program encompasses a series of 12 critical activities designed to rebuild and rehabilitate WASH infrastructure. These activities include the repair and reconstruction of tube wells, the rehabilitation of rainwater harvesting systems, and the installation of new water supply solutions, among others.

Through these targeted interventions, the project aims not only to address immediate needs but also to enhance the resilience of communities to future emergencies. The following sections will detail each of the 12 activities, highlighting their objectives, implementation status, and the positive impacts on the affected populations.

Activities	Zillawise Allocation						
	Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira
Repair and Reconstruction of platform of Shallow/Deep tube wells with Hand Pump (Including Repair and Raise the platform)	0	40	35	40	20	15	0
Repair of Rain Water Harvesting system (Base, Platform and fittings repair)	250	300	250	250	0	100	50
Repair & Rehabilitation of Solar-powered PSF (Climate-adaptive Water Facility) including solar setup, pipe fittings, pump and others.	20	5	25	0	0	0	5
Repair & Rehabilitation of Manual/Force Pump PSF including Sand replacement, pipe fittings, hand pump and others.	45	0	35	0	0	0	0
Cleaning, Disinfection and other rehabilitation work of Pond using for drinking water purpose.	0	0	80	0	0	0	0
Installation of Deep Tubewell (Including platform raised)	0	50	0	50	80	0	0
Installation of shallow Tubewell (Including platform raised)	0	25	0	0	0	25	0
Installation Rain Water Harvesting system with pre filtration Unit	60	70	70	0	0	40	10
Installation of Water networks (Community piped water supply)	0	4	4	3	0	3	1
Installation of Reverse Osmosis (RO) type Arsenic, Iron and Salinity Removal Plant (AISRU) with existing Tubewells	35	25	15	0	0	15	20
Repair and rehabilitation of Community based Reverse Osmosis Plants	1	3	1	0	0	2	00
Construct of new safely managed twin pit paka latrines (safely contain wastewater ensuring their climate resilience to replace destroyed sanitation facilities)	50	0	40	60	50	50	0

3. Activity wise Progress

This section provides a detailed account of the progress made in each of the 12 targeted activities under the "UNICEF Supported DPHE WASH Emergency Response Program." Here, we outline the implementation status, and any challenges encountered for each initiative aimed at restoring water, sanitation, and hygiene (WASH) services in the cyclone-affected areas of Barisal and Khulna divisions.

- ***Repair and Reconstruction of platform of Shallow/Deep tube wells with Hand Pump (Including Repair and Raise the platform)***

As Cyclone Remal struck the rural coastal areas of Bangladesh, it became essential to repair and reconstruct the platforms of shallow and deep tubewells, particularly in poverty-prone regions. This activity aims to support extremely poor families by providing assistance for the reconstruction of the platforms of both shallow and deep tubewells.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair and Reconstruction of platform of Shallow/Deep tube wells with Hand Pump (Including Repair and Raise the platform)	150	~	100%	100%	~	100%	100%	100%	Completed in all upazillas

- ***Repair of Rain Water Harvesting system (Base, Platform and fittings repair)***

In the aftermath of Cyclone Remal, many rainwater harvesting systems in coastal communities of Bangladesh were damaged. This activity focuses on repairing their bases, platforms, and fittings to restore access to safe drinking water.

By addressing these repairs, we aim to benefit vulnerable households, reduce waterborne disease risks, and enhance community resilience, empowering families to manage their water supply effectively.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair of Rain Water Harvesting system	1200	100%	100%	100%	100%	~	100%	100%	Completed in all Upazilas

- ***Repair & Rehabilitation of Solar-powered PSF (Climate-adaptive Water Facility) including solar setup, pipe fittings, pump and others***

In the aftermath of Cyclone Remal, the solar-powered piped water supply facilities (PSF) in affected coastal communities require urgent repair and rehabilitation. This activity focuses on restoring the solar setup, pipe fittings, and pumps to ensure sustainable access to clean water, enhancing resilience and adaptability to climate challenges.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair & Rehabilitation of Solar-powered PSF	55	60%	80%	90%	~	~	~	100%	Completed in many upazilas

- ***Repair & Rehabilitation of Manual/Force Pump PSF including Sand replacement, pipe fittings, hand pump and others***

Following Cyclone Remal, many manual and force pump water supply facilities (PSF) in coastal communities were damaged. This activity focuses on repairing and rehabilitating these systems, including sand replacement, pipe fittings, and hand pumps, to restore reliable access to clean water for vulnerable households.

Name of Activity	Allocation	Zilla wise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair & Rehabilitation of Manual/Force Pump PSF	80	95%	~	85%	~	~	~	~	Completed in many upazillas

- ***Cleaning, Disinfection and other rehabilitation work of Pond using for drinking water purpose***

In the wake of Cyclone Remal, many ponds used for drinking water in coastal communities became contaminated and unsafe. This activity focuses on cleaning, disinfecting, and rehabilitating these vital water sources to ensure they provide safe drinking water, helping to protect community health and prevent waterborne diseases.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Cleaning, Disinfection and other rehabilitation work of Pond using for drinking water purpose	80	~	~	100%	~	~	~	~	Completed in all upazilas

- ***Installation of Deep Tubewell (Including platform raised)***

In response to the challenges posed by the Remal cyclone in Bangladesh, this project encompasses a installation of 180 deep tubewells in the coastal districts of Pirojpur, Patuakhali, and Bhola. These tubewells, featuring raised platforms, aim to enhance climate resilience and ensure a sustainable water supply. By elevating the infrastructure, the project will help reduce water crises in these vulnerable areas, providing essential support to local communities.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potuakhali	Bhola	Khulna	Satkhira	
Installation of Deep Tubewell (Including platform raised)	80	~	65%	~	80%	70%	~	~	Site Selection is completed, work is going on.

- ***Installation of shallow Tubewell (Including platform raised)***

The installation of shallow tubewells with raised platforms in the Khulna and Bhola districts represents a strategic solution for enhancing access to clean water. Given the favorable conditions in these areas for shallow tubewell systems, this initiative aims to provide sustainable and reliable water sources for local communities. The raised platforms will not only improve water quality by reducing contamination risks but also facilitate easier maintenance, making it an effective option for addressing water needs in these regions.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potuakhali	Bhola	Khulna	Satkhira	
Installation of Shallow Tubewell (Including platform raised)	80	~	84%	~	~	~	75%	~	Site Selection is completed, work is going on.

- ***Installation Rain Water Harvesting system with pre-filtration Unit***

The project involves the installation of 180 rainwater harvesting systems across five zillas, providing a climate-resilient and cost-efficient solution for households in coastal regions. This sustainable approach captures and stores rainwater, significantly reducing dependence on traditional water sources and mitigating the impact of water scarcity. By implementing these systems, families can ensure a reliable supply of clean water while also benefiting from a low-cost solution that enhances resilience against climate change.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potuakhali	Bhola	Khulna	Satkhira	
Installation Rain Water Harvesting system with pre-filtration Unit	80	84%	75%	60%	~	~	75%	70%	Site Selection is completed, work is going on.

- **Installation of Piped Network (Community Water Supply)**

The installation of a piped water network is an effective solution for clustered areas, providing a sustainable source of clean drinking water for low-income communities. While the initial cost of this infrastructure is higher compared to other options, its long-term effectiveness and durability make it a worthwhile investment. This network ensures a reliable water supply for an extended period, significantly improving the health and quality of life for residents by reducing waterborne diseases and promoting better hygiene practices.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potuakhali	Bhola	Khulna	Satkhira	
Installation of Piped Network (Community Water Supply)	80	~	70%	75%	68%	~	83%	78%	Site Selection is completed, work is going on.

- **Installation of Reverse Osmosis (RO) type Arsenic, Iron and Salinity Removal Plant (AISRU) with existing Tubewells**

The installation of Reverse Osmosis (RO) plants for Arsenic, Iron, and Salinity Removal (AISRU) in conjunction with existing tubewells is a crucial initiative aimed at improving water quality in affected areas. This advanced technology effectively addresses the contamination issues caused by arsenic and high salinity levels, ensuring that communities have access to safe and potable water. By integrating these RO plants with existing infrastructure, the project not only enhances water safety but also promotes public health and well-being in vulnerable populations.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potuakhali	Bhola	Khulna	Satkhira	
Installation of Reverse Osmosis (RO) type Arsenic, Iron and Salinity Removal Plant (AISRU) with existing Tubewells	80	100%	100%	85%	~	~	75%	100%	Site Selection is completed, work is going on.

- ***Repair and rehabilitation of Community based Reverse Osmosis Plants***

The repair and rehabilitation of community-based Reverse Osmosis (RO) plants is essential for restoring access to safe drinking water in local communities. These plants play a vital role in providing clean water, especially in areas affected by contamination. By addressing maintenance issues and upgrading existing systems, this initiative ensures the continued effectiveness and reliability of RO technology. Ultimately, it aims to enhance public health and promote sustainable water management in the communities that depend on these vital resources.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair and rehabilitation of Community based Reverse Osmosis Plants	80	100%	100%	85%	~	~	75%	~	Site Selection is completed, work is going on.

- ***Construct of new safely managed twin pit paka latrines***

The construction of new safely managed twin pit paka latrines is a vital step towards improving sanitation and hygiene in underserved communities. This initiative aims to provide a sustainable and hygienic solution to waste management, reducing the risk of waterborne diseases and environmental contamination. Twin pit latrines facilitate effective waste decomposition while ensuring that one pit can be used while the other is resting, promoting safe sanitation practices. By enhancing access to proper sanitation facilities, this project contributes to the overall health and well-being of the community, fostering a cleaner and safer living environment.

Name of Activity	Allocation	Zillawise Progress							Remarks
		Bagerhat	Pirojpur	Barguna	Potua khali	Bhola	Khulna	Satkhira	
Repair and rehabilitation of Community based Reverse Osmosis Plants	80	67%	~	77%	75%	75%	71%	~	Super structure is completed, finishing work is going on.

4. Conclusion

The UNICEF-supported DPHE WASH Emergency Response Program for Cyclone Remal'24 has made significant strides in restoring water and sanitation services in the affected areas of Barisal and Khulna Divisions. With approximately 80-85% of the project activities completed, the initiative has successfully implemented a range of critical interventions, including the repair and rehabilitation of existing water facilities and the installation of new systems.

These efforts have not only addressed immediate needs but have also laid the groundwork for sustainable water management in these vulnerable communities. The incorporation of climate-resilient technologies, such as Reverse Osmosis plants and rainwater harvesting systems, highlights the commitment to providing safe drinking water while adapting to ongoing environmental challenges.

As we move forward, the project's impact on community health and well-being is becoming increasingly evident, with improved access to clean water and sanitation facilities leading to better hygiene practices and reduced waterborne diseases. Continued support and collaboration will be essential to ensure the long-term sustainability of these initiatives, empowering communities to thrive in the face of climate change and future adversities. The successful completion of this project marks a significant milestone in building resilience and enhancing the quality of life for those affected by Cyclone Remal.

5. Photograph of Project Activities



Installation of Deep Tubewell including platform Raised



Community Based water Supply Scheme



Installation of Shallow Tubewell including platform Raised



Rain Water Harvesting System



Repair and rehabilitation of Community based Reverse Osmosis Plants



Installation of Reverse Osmosis (RO) type Arsenic, Iron and Salinity Removal Plant (AISRU) with existing Tubewells



Construct of new safely managed twin pit paka latrines



Repair & Rehabilitation of Manual/Force Pump PSF including Sand replacement, pipe fittings, hand pump and others