



PROJECT OMBU

a project by



Give Bangladesh

# PROJECT PROFILE

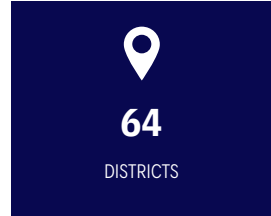




## GIVE BANGLADESH FOUNDATION

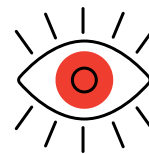
Give Bangladesh Foundation was established in 2018 to provide a unique pathway for the people of Bangladesh, to get involved in the development of the country through philanthropy and volunteering.

Drawing on the decade-long development expertise of its two co-founders, Mohammad Saifullah Mithu and Nuheen Khan, Give Bangladesh Foundation designs projects that attempt to identify and solve the root problems of selected development challenges. By bringing modern practices from the development industry to the more simplistic philanthropic sector, the foundation strives to ensure that charity contributions from individuals and volunteers are creating positive short-term and long-term impact on beneficiaries.



## MISSION

1. Developing the administrative capacity and transparent processes necessary to implement development projects effectively.
2. Helping establish partner organizations in countries with large Bangladeshi expatriate populations.
3. Seeking institutional grants and implementing revenue-generating activities for sustainable growth of the foundation.



## VISION

To become a trusted institution that is able to engage people of Bangladesh from all corners of the world in the nation's development process through philanthropy and volunteering.



Curated Projects of Give Bangladesh Foundation



**Over 4 million** people lack access to safe drinkable water in Bangladesh according to WaterAid. The goal of **Project Ombu** is to reduce that number to zero. To achieve that objective, we are undertaking multiple initiatives.

Give Bangladesh divided the pockets of water crisis in Bangladesh into **three categories** -



Scarcity of drinkable water in the flood-prone **northern region**



Prevalence of saline water in **southern region**



Drying out of water sources in **Chittagong Hill Tract areas** in the dry season.

**Project Ombu** continues to explore solutions that will ensure adequate availability of drinkable water in the areas of Bangladesh where the water crisis is acute. We work with local & national experts and community members to find an effective as well as an innovative solution to specific problems, whether it is a well, a piped system, a double platform tube well, a submersible pump run by solar energy, or a process of water treatment through bleaching. **Project Ombu** has been efficiently solving socio-political discrimination & lessening the inequality of opportunity through managing drinkable water for underserved communities



**03**

SOLAR SUBMER-SIBLE PUMPS



**06**

CONSTRUCTION IN HILL TRACTS



**07**

DISTRICTS



**10**

DOUBLE- PLATFORM TUBEWELLS



**30,435**

BENEFICIARIES



# Double platform tube wells (DPTs)



## Problem Analysis

Every year, the lowlands of Bangladesh experience devastating floods even before the monsoon season begins. This results in homelessness, people being trapped, and limited access to clean drinking water. The primary source of clear water, tube wells, gets submerged during this period, exacerbating the problem. The aftermath of the floods lasts for **2-3 months**, making the water drinkable only after that time. As a consequence, locals are forced to travel long distances in search of drinking water from ponds or rivers, leading to waterborne diseases.

## Our Solution

To address this issue, **Project Ombu** proposes the installation of double platform tube-wells. By placing one tube well **5-6 ft** above the ground, residents can switch to it when the ground-level tube well becomes unusable due to rising water levels. This project aims to provide safe drinking water, reduce waterborne diseases, and alleviate the hardship of obtaining clean water for affected families.

## Project Output



**12** constructions



**7** locations in **3** districts



**2188** beneficiary families



# Construction in Chittagong Hill Tracts

## Problem Analysis

In the Chittagong hill tracts, there are alarming indications of a decline in river flows, particularly in dry seasons. Basically, from the winter to the rainy season, spanning December to April-May, the inhabitants face severe water shortages for daily activities. In accordance with the Department of Public Health Engineering (DPHE), they have managed to provide water to only **56%**, **53%**, and **40%** of the inhabitants of **Khagrachari**, **Bandarban**, and **Rangamati**, respectively. Others are solely dependent on natural resources, i.e. the mountain springs and streams that once provided water throughout the year but are shrinking nowadays in drought. The situation has deteriorated over the past **five years** due to widespread deforestation and water contamination. These issues lead to serious effects on agricultural yields and groundwater replenishment. There are locations where **150 feet** of digging does not guarantee a drop of water. Despite having severe scarcity, the indigenous people cannot even afford to buy water. As a result, it is a daily struggle for them to travel long distances only to collect safe drinking water.



## Project Output



**6** constructions



**3** locations in **2** districts



**287** beneficiary families

## Our Solutions



**Deep tube wells** are a reliable water source that provides year-round drinkable water to local people, who don't have to financially suffer as this is a low maintenance water source.

For **Reservoirs**, the water in the reservoir is purified because it is filtered as part of the natural process. Underground water flows and enters the reservoir through small openings.





# Desalination plant in saline-affected Southern regions

## Problem Analysis

Climate change has exacerbated the issue of water supply options for the Khulna division by causing saline intrusion of the two main river bodies. Furthermore, unsustainable groundwater extraction as a result of poorly controlled well drilling and over-abstraction made the water level go deeper to a minimum of **600** to **800 feet**. It has posed a long-term threat to the division's water supply. The water and soil salinity have penetrated since the diversion of Ganges water at Farakka Barrage in India in early 1975. As a result of the siltation and increased salinity, the Sundarbans Rivers' water quality has deteriorated, posing a threat to mangrove ecosystems.

Because of excessive saline intrusion, ground water utilization in the coastal areas of Khulna i.e. **Shyamnagar, Koyra, Ashashuni,** and **Dakop** is currently reduced. Also, in these areas, most people can't get access to education and lead a measurable life with low-income jobs. Due to the increased salinity in water, they have to purchase water to live and they don't have the capacity to do that on a daily basis.



## Project Progress

- Field visit conducted in Khulna's **Koyra upazila**
- Local solutions explored, with **Reverse Osmosis (RO)** purifiers deemed the most appropriate solution in the area, albeit, with severe environmental concerns associated.
- Partnership formed with **E-Lab Bangladesh** and **Queensland University of Technology**, who will implement their patented solution through Project Ombu
- The project is currently in the funding phase





# SUSTAINABLE DEVELOPMENT GOALS

**Project Ombu** is committed to attaining the **Sustainable Development Goals (SDGs)**. While achieving clean water and sanitation is mentioned in only one of the SDGs, the project relates to several other goals through its connector attributes. The project aims to ensure water security, through which Give Bangladesh will be able to meet **7** out of the **17 SDGs**, either directly and indirectly. All targets of SDG Goal **6**, “**Clean Water and Sanitation for All**” are on the same page with Project Ombu's functional procedure and objectives. Besides, Goals **3, 9, 11, 12, 13 & 15** together have a number of targets that can be linked up with the project's mission & vision.

## SUSTAINABLE DEVELOPMENT GOALS

**6** CLEAN WATER AND SANITATION



**3** GOOD HEALTH AND WELL-BEING



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**11** SUSTAINABLE CITIES AND COMMUNITIES



**12** RESPONSIBLE CONSUMPTION AND PRODUCTION



**13** CLIMATE ACTION



**15** LIFE ON LAND





# SNAPS FROM THE FIELD







*For further queries*

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*To set up an appointment*

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