HELPING HAND
FOR RELIEF AND DEVELOPMENT




# WATER AND SANITATION HYGIENE - WASH

2026 CATALOG

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# Clean Water. Dignified Lives.

For over two decades, Helping Hand for Relief and Development has brought safe water, sanitation, and hygiene to some of the world's most vulnerable communities. From drought-stricken villages in East Africa to refugee settlements in the Middle East, from flood-prone lowlands in Bangladesh to mountain communities in Nepal — HHRD's WASH program meets people where they are.

This catalog is your guide to the projects we are actively running and funding. Every project listed here is shovel-ready and donor-supported. Your gift, at any level, moves directly into the field.



# Current WASH Projects

| Country/Region | Project | Beneficiaries | Cost |
|---|---|---|---|
| AFRICA | Mega Borehole | Up to 30,000 | $115,000 |
| | Water Purification Plant | Up to 15,000 | $46,000 |
| | Solar Based Water Project | Up to 7,500 | $5,550 |
| | Shallow Well with Afrediv Pump | Up to 2,000 | $4,500 |
| | Rainwater Harvesting | Up to 2,000 | $3,450 |
| | 10,000ltr Tank | Up to 15,000 | $1,150 |
| | 5-Unit Washroom in Schools | Up to 300 | $6,670 |
| | Water Trucking | Up to 1,500 | $400 |
| | 20 Ltr Jugs | Up to 500 | $500 |
| Middle East/North Africa (MENA) | | | |
| Gaza | Water Trucking | More than 2,000 | $5,900 |
| | 2 Unit Washroom | More than 500 | $6,500 |
| | 1 Unit Washroom | More than 500 | $3,250 |
| | Hygiene Kits | Up to 2,000 | $200 |
| Jordan | Refugees Home Water Filtration | Up to 200 | $1,000 |
| | Family Washroom | Up to 50 | $2,000 |
| | Refugees Water Trucking | Up to 600 | $1,000 |
| | Water Storage Tanks (Qty. 3) | Up to 600 | $1,500 |
| ASIA | | | |
| Afghanistan | Afrediv Pump | Up to 1,770 | $3,335 |
| | Borewell with Solar Tank | | $7,000 |
| | RO Plant | Up to 1,500 | $6,250 |
| | Washroom | Up to 50 | $2,300 |
| Bangladesh | Deep Tube Well | Up to 700 | $1,600 |
| Nepal | Water Treatment Plant | Up to 1,500 | $6,000 |
| | Bio-Sand Filtration | Up to 500 | $1,450 |
| | 7 FATS – Hygiene Awareness | Up to 100 | $2,400 |
| PAKISTAN | RO Plant | Up to 2,000 | $17,000 |
| | Ultra Filtration Plant | Up to 2,000 | $13,300 |
| | Tube Well | Up to 1,500 | $11,300 |
| | Portable RO Plant | Up to 2,000 | $8,600 |
| | 2 Unit Washroom | Up to 250 | $5,400 |
| | Gravity Flow Scheme | Up to 250 | $3,450 |
| | Dug Well | Up to 200 | $2,650 |
| | Submersible Pump | Up to 250 | $3,450 |
| | Solar Based Water Project | Up to 200 | $1,300 |
| | Afrediv or 2 Abayar | Up to 150 | $1,000 |
| Cambodia | Water Tank | Up to 300 | $1,600 |
| | Washroom | ~10 households | $700 |
| Indonesia | Water Tank with Borehole | Up to 100 | $2,500 |
| Global | Hygiene Kit Distribution | Up to 150 | $200 |
| | Maintenance Fund | | $100 |
| Indexes | Projects by Price | | |
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# AFRICA

Across East Africa — in Kenya, Somalia, Tanzania, Uganda, and Djibouti — communities face some of the world's most severe water scarcity. Seasonal droughts, failing infrastructure, and rapid population growth leave millions walking hours each day just to reach a water source. HHRD works across the region with local partners to deliver sustainable, community-maintained water solutions.

## Mega Borehole

**Unit Cost: $115,000 | Beneficiaries: Up to 30,000 people**

**Warranty of Materials: 10 years | Average Time to Completion: 6 Months**

A Mega Borehole is one of the most transformative investments HHRD makes in a community. Drilled deep into underground aquifers, these boreholes access water that doesn't depend on seasonal rainfall — delivering a reliable, year-round source of clean water to tens of thousands of people at once. Each installation includes a motorized pump, storage tank, distribution infrastructure, and a community water management committee trained to maintain and operate the system for years to come.

### Project Highlights:

- Accesses deep, clean aquifers unaffected by surface contamination
- Includes community training and a local maintenance committee
- Reduces waterborne illness and maternal/child health burdens
- Designed for 20+ years of operational life



# Water Purification Plant

**Unit Cost: $46,000 | Beneficiaries: Up to 15,000 people**

**Warranty of Materials: 15 years | Average Time to Completion: 6 Months**

In areas where surface water exists but is heavily contaminated —a Water Purification Plant transforms what is available into what is safe. HHRD installs community-scale filtration and purification systems capable of processing thousands of liters per day, removing bacteria, parasites, and chemical contaminants through multi-stage filtration, UV treatment, or chlorination.

These plants are designed as community infrastructure — not temporary fixes. They are housed in durable structures, operated by trained local technicians, and often paired with a small user-fee system that funds ongoing maintenance and supplies, making them financially self-sustaining over time.

## Project Highlights:

- Reduces child mortality from diarrheal and waterborne disease
- Operated by community-trained local technicians

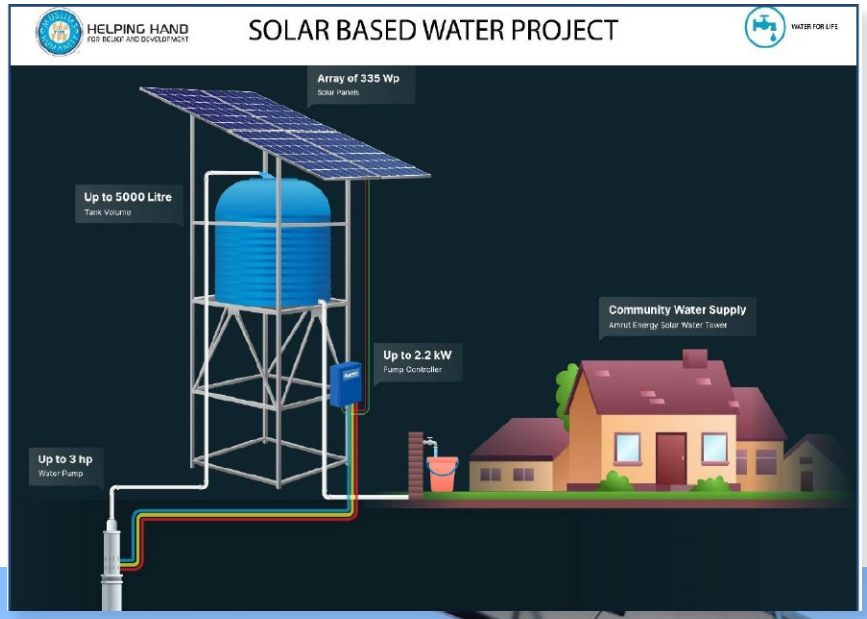




# Solar Based Water Project

**Unit Cost: $5,550 | Beneficiaries: Up to 7,500 people**

**Warranty of Materials: 10 years | Average Time to Completion: 6 Months**




HHRD's Solar Based Water Projects deploy solar-powered pumping systems at schools, health clinics, and community centers — drawing from boreholes or deep wells and filling storage tanks for community distribution. Unlike diesel-dependent systems, solar operates without fuel costs and continues functioning even during extended power outages or after storms.



# Shallow Well with Afrediv Pump

**Unit Cost: $4,500 | Beneficiaries: Up to 2,000 people**

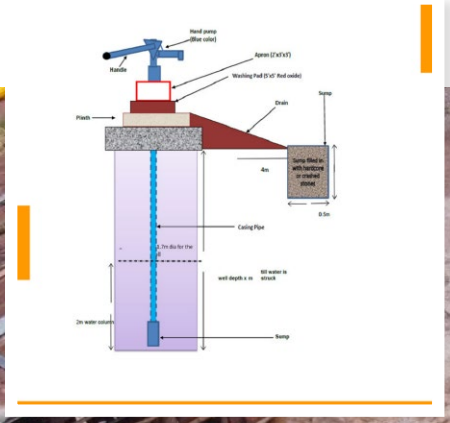
**Warranty of Materials: 5 years | Average Time to Completion: 2 Months**

The Afrediv pump is a robust, community-maintained hand pump widely used across East Africa for its reliability and ease of repair. Installed atop a shallow well, this solution brings clean groundwater to communities at a fraction of the cost of a motorized system — and with a much simpler maintenance profile. Local pump mechanics can be trained in a single day, spare parts are available regionally, and the pump is designed to withstand heavy daily use.

For smaller communities or those in areas with accessible water tables, the shallow well with Afrediv pump is often the most appropriate, most durable solution available.

## Project Highlights:

- Simple, repairable mechanics — no electricity required
- Low cost makes multiple installations per campaign possible
- Locally maintained with regionally available spare parts






# Rainwater Harvesting

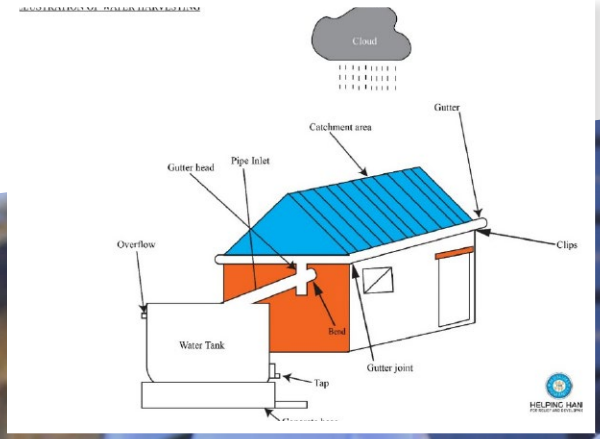
**Unit Cost: $3,450 | Beneficiaries: Up to 2,000 people**

**Warranty of Materials: 6 years | Average Time to Completion: 2 Months**

In regions with reliable rainy seasons — even short ones — rainwater harvesting can be a cost-effective supplement or primary source of clean water. HHRD installs catchment systems on schools, community centers, and health clinics, channeling roof runoff into large-capacity storage tanks. When paired with basic filtration, harvested rainwater meets drinking water quality standards.

## Project Highlights:

- Especially effective when installed at schools and community buildings
- Low operating cost — relies on rainfall, no pumping required
- Can be paired with filtration for drinking water quality
- Seasonal storage extends benefits through dry periods



# 10,000 Liter Tank

**Unit Cost: $1,150 | Beneficiaries: Up to 15,000 people**

A 10,000-liter storage tank is a force multiplier for communities that already have access to a water source but lack storage capacity. Without adequate storage, communities are vulnerable to supply interruptions — a broken pump, a dry season dip in water table, or a trucking delay can cut access overnight. A properly sited tank stabilizes supply, reduces the burden on the primary water source, and allows for bulk delivery and scheduled distribution.

These tanks are frequently installed as part of a broader WASH project — paired with a borehole, rainwater harvesting, purification plant, or trucking system — but they can also serve as standalone interventions in communities where storage is the critical gap.

## Project Highlights:

- 10,000-liter capacity serves large community populations
- Reduces vulnerability to supply interruptions
- Works as a standalone or complementary installation
- Durable, food-grade polyethylene construction
- Can be elevated for gravity-fed distribution



# 5-Unit Washroom in Schools

**Unit Cost: $6,670**

**Warranty of Materials: 10 years | Average Time to Completion: 6 Months**

Access to safe, private sanitation is one of the leading factors in whether children — especially girls — stay enrolled in school. When a girl reaches puberty without access to a private toilet at school, she often stops attending altogether. HHRD's school washroom blocks are built to last, with five separate units including gender-segregated facilities, handwashing stations with soap dispensers, and proper waste management infrastructure. Each installation is accompanied by hygiene education for students and teachers.

## Project Highlights:

- Includes handwashing stations and hygiene education component
- Serves entire school community — students and staff



# Water Trucking

Unit Cost: $400 | Beneficiaries: Up to 1,500 people

When drought strikes, water trucking is often the only option. In Africa, HHRD deploys water tankers to deliver safe water directly to schools, hospitals, public markets, and the most vulnerable households: female-headed families, orphan-headed households, people living with HIV/AIDS, and the elderly and disabled.

Water trucking is not a permanent solution, and HHRD treats it as a bridge — an emergency lifeline deployed while longer-term infrastructure is planned and funded. At just $400 per campaign, it is also one of the most accessible ways for a donor to have an immediate, life-saving impact.

### Project Highlights:

- Emergency and drought-response deployment across Kenya's most water-stressed counties
- Prioritizes schools, hospitals, and the most vulnerable households
- Low entry cost at $400 — accessible for individual donors
- Used as a bridge while permanent infrastructure is built



# 20-Liter Jugs

**Unit Cost: $500 | Beneficiaries: Up to 500 people**

In emergency settings and underserved communities, the simple act of providing clean, covered water storage containers can dramatically reduce waterborne illness. In Kenya, HHRD distributes food-grade 20-liter jerricans to vulnerable households including female-headed families, orphan-headed households, people living with HIV/AIDS, and the elderly. Contamination often happens not at the water source but on the way home — in dirty containers, open buckets, or cracked vessels.

A proper, sealed 20-liter jug breaks that chain. Each container features a sealed lid, brass outlet valve, and food-grade construction designed to prevent re-contamination throughout the water's journey from source to cup.

### Project Highlights:

- Food-grade, sealed containers prevent re-contamination
- Distributed across six Kenyan counties to the most vulnerable households
- Critical complement to water trucking and tank projects
- Paired with hygiene messaging on safe water handling



# MIDDLE EAST & NORTH AFRICA (MENA)

### Gaza · Jordan · Lebanon

The Middle East faces a water crisis compounded by conflict, displacement, and crumbling infrastructure. In Gaza, years of blockade and war have left water systems devastated. In Jordan and Lebanon, the influx of millions of Palestinian and Syrian refugees has overwhelmed already-strained resources. HHRD works across the region to ensure that even in the most difficult circumstances, families have access to safe water and dignified sanitation.

## Gaza
## Water Trucking

**Unit Cost: $5,900 | Beneficiaries: 2,000+**

HHRD's potable water distribution project operates across Central and Southern Gaza through three functioning water plant stations in Deir Al-Balah and Khan Younis, each producing 100,000–150,000 liters per day through desalination and distillation. Distribution runs six days per week, reaching families in Al-Bureij, Al-Nuseirat, and Mawasi Khan Younes. Each family receives water 15 times per campaign phase. A vetted local monitor ensures accountability, transparency, and documentation at every step.

**Project Highlights:**

- Serves 50,000+ individuals per campaign phase; 200,000 across four phases
- Distributes desalinated, distilled potable water — safe for drinking and cooking
- Three operational water plant stations in Central and Southern Gaza
- Six-day-per-week distribution with independent third-party monitoring
- Coordinated with WASH Cluster, UNICEF, and UNRWA standards






# 2-Unit Washroom

**Unit Cost: $6,500 | Beneficiaries: 500+**

A recent assessment found that 37% of displaced Gaza families constructed their own pit latrines out of rubble. HHRD's washroom units address this directly. Each 2-unit installation consists of two private restrooms and a shower, built from galvanized steel with a 1,000-liter rooftop water tank, internal PPR piping, floor drainage, proper ventilation, and legs elevated above ground to prevent sinking in sand.

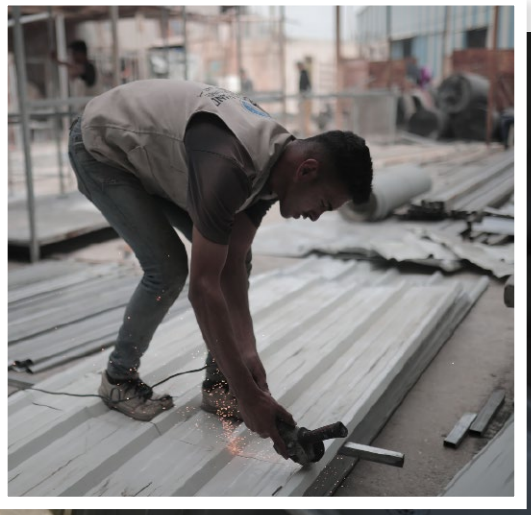
### Project Highlights:

- Engineered for field conditions: elevated, ventilated, with internal plumbing
- Rapid deployment to shifting displacement and shelter sites
- Prioritizes privacy and safety for women, girls, and persons with disabilities
- Third-party verified with full photo/video documentation

## Success Story!

### "You Restored a Part of Our Lost Humanity" — Abu Marwan's Story

"My biggest concern wasn't finding food for us, but how to protect the health of my young grandson and the privacy of my teenage granddaughter. Intestinal illnesses constantly plagued my grandson due to the lack of hygiene, and I could see the look of shame and pain in my granddaughter's eyes every time she had to use exposed and filthy areas. When the washrooms arrived, he wept: "It wasn't just walls and a door. It was privacy, wellness, and dignity. You didn't just build bathrooms for us — you restored a part of our lost humanity. This is true relief."



# 1-Unit Washroom

**Unit Cost: $3,250**

The 1-unit washroom serves as a targeted sanitation solution for smaller sites, individual families in damaged housing, or locations where a full 2-unit installation is not yet feasible. In the patchwork of Gaza's displacement landscape — where families shelter in partially destroyed buildings, mosques, schools, and makeshift camps — a single private washroom unit can restore an essential measure of dignity and safety.

## Project Highlights:

- Single-unit installation for targeted, flexible deployment
- Appropriate for small sites and individual family support
- Addresses urgent sanitation gaps in crisis settings
- Gender-private design prioritizes safety
- Part of HHRD's broader Gaza sanitation response



# Hygiene Kits

**Unit Cost: $200 | Beneficiaries: Up to 2,000 per campaign**

A hygiene kit is one of the most immediate, dignified gifts HHRD can deliver in a crisis. Each kit contains essential personal hygiene supplies — soap, shampoo, toothpaste, toothbrushes, sanitary pads, and other culturally appropriate items — sufficient for a family for one month. In Gaza, where markets are disrupted and families have fled with nothing, hygiene kits restore a baseline of cleanliness and health that prevents disease and supports mental wellbeing. At $200 per kit serving

a full family, this is among the most direct ways to help families in the Gaza crisis right now.

## Project Highlights:

- Serves families of 4–6 per kit
- Includes culturally appropriate personal hygiene supplies
- Fast-moving, emergency-appropriate intervention
- Critical for preventing skin disease, infection, and illness
- Available for deployment at scale — up to 2,000 recipients per campaign






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# Jordan Refugees:
# Home Water Filtration (Qty. 3)

**Unit Cost: $1,000 | Beneficiaries: Up to 200 people**

**Warranty of Materials: 3 years | Average time to completion: 21 days**

Palestinian refugees in Jordan have lived for generations in urban settings where municipal water is often brackish, high in mineral content, or inconsistently treated. A point-of-use home filtration unit brings quality water directly to the kitchen tap, eliminating the need to purchase bottled water (a significant expense for low-income families) and reducing exposure to contaminants.

Each donation supports three filters, placed in 3 different households to support the maximum number of beneficiaries.

## Project Highlights:

- Point-of-use filtration for individual households
- Addresses mineral contamination and inconsistent municipal treatment
- Includes installation and filter replacement guidance







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# Jordan & Lebanon Refugees: Water Trucking

**Unit Cost: $1,000 | Beneficiaries: Up to 600 people**

Over a million Syrian refugees remain in Jordan, many living in informal settlements and peripheral urban areas where municipal water connections are unreliable or absent. HHRD's water trucking program delivers safe water directly to these settlements on a scheduled basis, ensuring that families don't go days without water during supply disruptions or in the heat of summer.

Water trucking in Jordan is a dignity intervention as much as a health one — ensuring that refugee families are not reduced to collecting from open ditches or buying water at exploitative prices from informal vendors.

## Project Highlights:

- Addresses gaps in municipal water coverage for informal settlements
- Scheduled delivery prevents crisis-level deprivation
- Protects families from exploitative informal water markets
- Part of HHRD's broader refugee support program in Jordan



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# Jordan & Lebanon: Family Washroom

**Unit Cost: $2,000 | Beneficiaries: Up to 50 people**

**Warranty of Materials: 5 years | Average time to completion: 11 months**

Refugee families in Jordan and Lebanon — whether Palestinian or Syrian — often live in overcrowded buildings and informal settlements where shared or non-existent sanitation is the norm. For women and girls especially, a private washroom within their home is transformative — removing a constant source of insecurity and risk that comes with shared or outdoor facilities.

## Project Highlights:

- Individual household or small building scale
- Addresses safety and privacy needs of women and girls
- Appropriate for dense urban and peri-urban refugee settings
- Paired with hygiene awareness materials



*Before*




*After*



# Water Storage Tanks (Qty. 3)

**Unit Cost: $1,500 | Beneficiaries: Up to 600 people**



Refugees in Lebanon and Jordan live in tents in the desert. There is no indoor plumbing and no formal water infrastructure. These water tanks are essential for families to store water delivered by truck. One tank can supply a family with water for cooking, washing and drinking for up to 12 days. The tank is made of high density cross-linked polyethylene.

In Lebanon especially, where the economic and infrastructure crisis has made municipal water delivery increasingly unreliable, these tanks have become a critical resilience tool for refugee and host communities alike.

## Project Highlights:

- Addresses intermittent municipal supply by building in storage buffer
- Particularly critical in Lebanon's infrastructure crisis
- Community or building-level installation
- Durable, food-grade construction for long-term use



# ASIA

## Afghanistan · Bangladesh · Nepal · Pakistan
## Cambodia · Indonesia · Laos

Asia is home to some of the world's most complex water challenges — from the drought and -flood cycle of Pakistan to the post-conflict devastation of Afghanistan, and the mountainous terrain of Nepal where clean water is often inaccessible. HHRD's WASH program spans the entire region with tailored, context-specific solutions. In Cambodia, Indonesia, and Laos, HHRD works in some of the region's most underserved rural communities that often lack basic water infrastructure. HHRD brings targeted, community-appropriate water and sanitation solutions to all populations.

## Afghanistan: Afrediv Pump

**Unit Cost: $3,335 | Beneficiaries: Up to 1,770 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**

The Afrediv is a high-capacity, manually operated pump specifically designed for deep-well applications in challenging environments. In Afghanistan — where decades of conflict have destroyed water infrastructure — the Afrediv pump provides a durable, locally maintainable water source for communities. Each installation is accompanied by training for local pump mechanics and a supply of spare parts, ensuring that the community can sustain the pump independently long after HHRD's initial deployment.

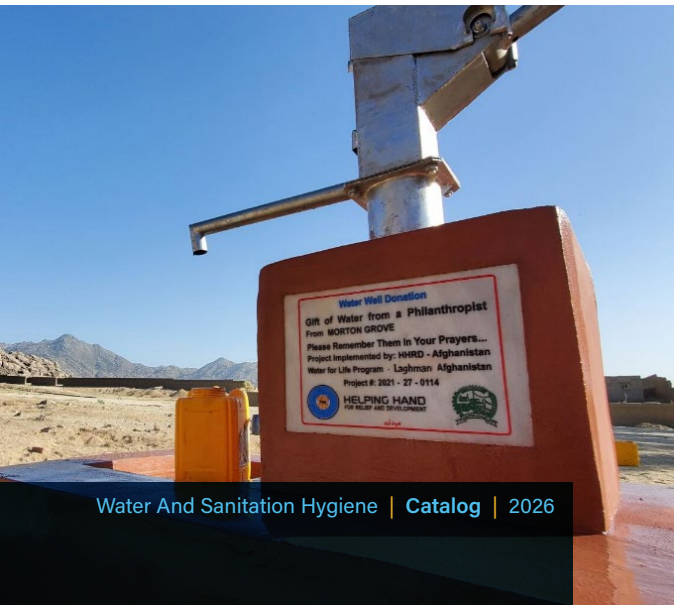
### SUCCESS STORY:

**Amina's 8 years old, Nangarhar, Afghanistan**

"With this new water pump in our village, I can drink clean water. I can wash my hands. I can help my mother at home — and I still have time to go to school. Because of you, I can smile. I can learn. And I can dream big."

**Project Highlights:**

- High-capacity manual pump for deep-well applications
- Designed for durability in post-conflict environments






# Borewell with Solar Tank

**Unit Cost: $7,000**

**Warranty of Materials: 5 years | Average time to completion: 6 months**

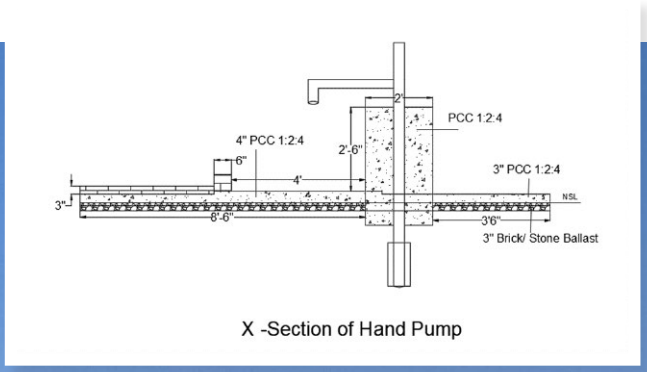
Afghanistan's rural communities often sit atop viable aquifers but lack any means of accessing them. HHRD's borewell with solar tank installation drills to clean groundwater and uses solar-powered pumping to fill an elevated storage tank — creating a clean water system that functions entirely off-grid. In a country where fuel is expensive and electricity supply is unreliable, solar is the infrastructure of choice.

This project represents one of the higher-specification installations in the Afghanistan portfolio and is particularly impactful in mid-size communities that have outgrown hand pump capacity.

## Project Highlights:

- Off-grid solar-powered pumping to elevated tank
- Addresses aquifer access in communities without infrastructure
- Appropriate for mid-size communities beyond hand pump capacity
- Designed for resilience in post-conflict, resource-scarce settings




X -Section of Hand Pump



# RO Plant

**Unit Cost: $6,250 | Beneficiaries: Up to 1,500 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**



In parts of Afghanistan where the available groundwater is saline, brackish, or otherwise chemically contaminated, a Reverse Osmosis (RO) plant is the appropriate solution. RO technology forces water through semi-permeable membranes that remove dissolved salts, heavy metals, and other contaminants — producing clean, safe drinking water even from heavily compromised sources.

HHRD installs community-scale RO plants operated by trained local technicians, with a focus on communities where no other purification option is viable.

## Project Highlights:

- Removes dissolved salts, heavy metals, and chemical contaminants
- Serves up to 1,500 beneficiaries
- Appropriate where water sources are saline or chemically compromised
- Operated by community-trained technicians
- Can be paired with solar power for off-grid operation



# Washroom

**Unit Cost: $2,300 | Beneficiaries: Up to 50 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**

Sanitation coverage in Afghanistan is among the lowest in the world. HHRD's Afghan washroom installations are built at schools, health clinics, and community centers — the sites where safe, private sanitation has the broadest reach and the greatest impact on community health. Each unit is designed with the Afghan cultural context in mind, including separate facilities for men and women.

## Project Highlights:

- Culturally appropriate design with gender separation
- Deployed at schools, clinics, and community centers
- Serves up to 50 people per unit
- Addresses some of the world's lowest sanitation coverage rates
- Includes hygiene awareness component









# Bangladesh:
# Deep Tube Well

**Unit Cost: $1,600 | Beneficiaries: Up to 700 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**

**The Deep Tube Well is more sanitary than a regular dug well.**

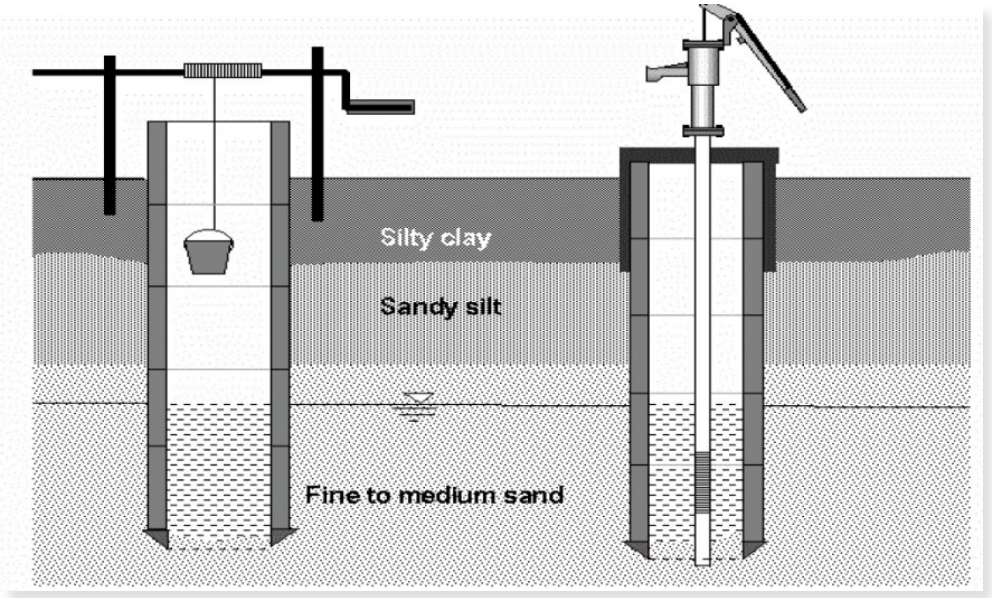


In Bangladesh about 45% rural poor do not have access to safe drinking water. The drinking water crisis in the hilly and coastal areas has reached explosive proportions. The people of these areas are forced to use any water that is available even if it is highly contaminated. The traditional and still most common method of obtaining groundwater in rural areas is by means of hand-dug wells which can be contaminate any time due to mud, vegetation, animals, waste & use of buckets/ropes.

HHRD's deep tube well installations come with water quality testing, community training, and registration with Bangladesh's national water management system.

## Project Highlights:

- Drills below arsenic-bearing stratum for clean groundwater
- Addresses Bangladesh's national arsenic contamination crisis
- Includes water quality testing and community training
- Registered with national water management system



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# Nepal:
# Water Treatment Plant

**Unit Cost: $6,000 | Beneficiaries: Up to 1,500 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**

Nepal's mountain and hill communities often have abundant surface water that carries biological contamination from upstream agriculture. HHRD's water treatment plants use multi-stage filtration and disinfection to render surface and spring water safe for drinking.

## Project Highlights:

- Treats biological contamination from surface and spring sources
- Community operated with local technician training








# Bio-Sand Filtration Community Pump

**Unit Cost: $1,450 | Beneficiaries: Up to 500 people**

**Warranty of Materials: 5 years | Average time to completion: 4 months**

Bio-sand filtration is a proven, low-tech water treatment method that uses layers of sand and gravel — and the biological processes that develop within them — to remove pathogens from water. HHRD's community bio-sand filters are installed at central community points like schools.

## Project Highlights:

- Low-tech, sustainable filtration using sand, gravel, and biology
- No chemicals or electricity required
- Very low maintenance once the biological layer establishes
- Proven technology appropriate for Nepal's rural and mountainous areas






# 7 FATS — Hygiene Awareness Program

**Unit Cost: $2,400 | Beneficiaries: Up to 100 people**

FATS stands for Fecal-Oral Transmission and Sanitation — a structured hygiene awareness curriculum that teaches communities how disease moves from waste to water to human body, and how to break that chain. HHRD delivers the 7 FATS sessions as a standalone program or as a complement to infrastructure projects, ensuring that the behavior change necessary to make clean water truly safe is in place. Hygiene education is the multiplier

of the WASH program. A clean well means nothing if people are still practicing open defecation upstream. The 7 FATS curriculum changes that.

## Project Highlights:

- Structured, evidence-based hygiene awareness curriculum
- Covers handwashing, sanitation, water handling, and disease prevention
- Can be delivered standalone or alongside infrastructure
- 100 participants per program — community-scale behavior change
- Facilitators trained locally for ongoing delivery






# PAKISTAN

Pakistan faces one of the most severe water crises in Asia. More than 50% of the rural population has no access to clean drinking water, and Pakistan ranks among the 30 most water-deficient countries in the world. Per-capita water availability has fallen from 5,000 cubic meters in the early 1950s to 1,500 today — the lowest among 26 Asian countries. According to the WHO, 25–30% of all hospital admissions in Pakistan are linked to contaminated water, and 60% of infant deaths are water-related. Flooding — intensifying with climate change — regularly destroys infrastructure and displaces millions. HHRD's Pakistan WASH program is the most extensive in the portfolio, with a wide range of solutions calibrated to the country's varied geography, from the mountain north to the desert south.

## RO Plant

**Unit Cost: $17,000 | Beneficiaries: Up to 2,000 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**







Pakistan's groundwater crisis is severe — in large parts of Sindh, Balochistan, and Punjab, water is too contaminated with fluoride and arsenic, or otherwise unfit for human consumption. A Reverse Osmosis plant is the only technology capable of making this water safe, removing dissolved salts and chemical contaminants through high-pressure membrane filtration. HHRD's full-capacity RO plants use internationally certified components — Pentair sand and carbon filters, Grundfos high-pressure pumps, Toray or LG membranes rated to 7,000 PPM TDS — housed in purpose-built community water stations with trained local operators and regular maintenance protocols.

Each plant serves up to 2,000 beneficiaries per day and is sited through a community needs assessment, with a Local Project Management Committee formed to oversee ongoing operations. In Pakistan, where 40% of all deaths and 30% of all diseases are linked to poor water quality, a well-maintained RO plant is a life-changing intervention.

### Project Highlights:

- International-grade components: Pentair, Grundfos, Toray/LG membranes
- Removes salinity, arsenic, fluoride, and chemical contaminants
- Installed with community-built water station and trained local operator

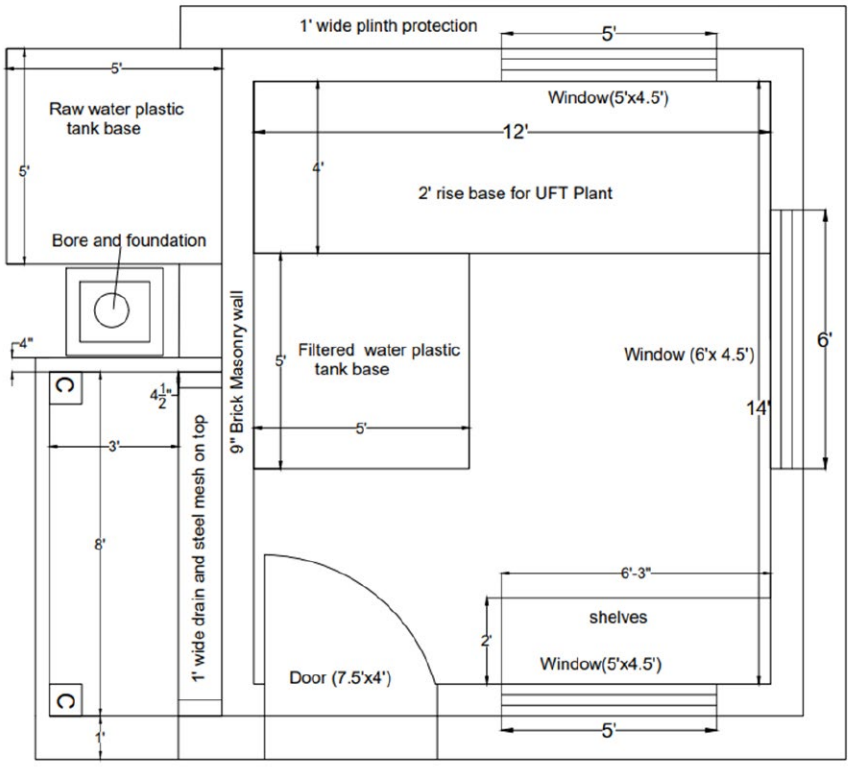
# Ultra Filtration Plant

**Unit Cost: $13,300 | Beneficiaries: Up to 2,000 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**




Ultra Filtration (UF) plants use hollow-fiber membrane technology to remove bacteria, viruses, and suspended particles from water — producing biologically safe drinking water at community scale. Unlike RO, UF does not remove dissolved salts, making it the appropriate choice where contamination is primarily biological rather than chemical. HHRD selects between RO and UF based on water quality testing at each site — ensuring the right technology is matched to the actual contamination profile of each community.




Plan of Room

HELPING HAND
FOR RELIEF AND DEVELOPMENT

# Tube Well

**Unit Cost: $11,300 | Beneficiaries: Up to 1,500 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**

A tube well is a stainless steel pipe bored into an underground aquifer, fitted with a strainer at the lower end and a pump that lifts water to a surface reservoir and distribution system. In Pakistan, groundwater depths typically range from 80 to 200 feet, and in some remote areas exceed 300 feet — requiring deep drilling equipment and proper strainer installation to reach clean water below contaminated upper strata.

HHRD conducts a Water Electrical Resistivity Survey before each installation to confirm the aquifer depth and quality. Each tube well includes a distribution system, storage tank, and a trained local operator, with a community committee responsible for ongoing management.

## Project Highlights:

- Includes distribution system, tank, and trained local operator
- Stainless steel construction for long operational life
- Community management committee ensures ongoing ownership



# Portable RO Plant

**Unit Cost: $8,600 | Beneficiaries: Up to 2,000 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**

The Portable RO Plant is HHRD's rapid-response water solution for Pakistan's frequent disaster settings — deployed within hours to flood-affected areas, earthquake zones, or communities where the fixed water infrastructure has been destroyed.

Mounted on a trailer or vehicle, this unit can treat contaminated floodwater, river water, or brackish groundwater and produce clean drinking water for up to 2,000 people per day. Its mobility makes it uniquely valuable: HHRD can move it from crisis to crisis, maximizing impact across multiple deployment sites in a single season.

## Project Highlights:

- Rapid deployment — operational within hours of arrival
- Treats flood, river, and brackish water sources
- Mobile — can be redeployed across multiple crisis sites
- Pakistan's annual flood season makes this a frequently needed asset





# 2-Unit Washroom for Schools

**Unit Cost: $5,400 | Beneficiaries: Up to 250 students**

**Warranty of Materials: 5 years | Average time to completion: 6 months**




Pakistan has one of the highest rates of out-of-school children in the world — and lack of gender-separated sanitation at schools is a documented driver of girls' dropout, particularly at puberty. HHRD's 2-unit school washroom installations provide gender-separated, private, and hygienic facilities that directly support school enrollment and attendance.

Each installation includes a handwashing station, hygiene education for students, and is built to government school construction standards.

## Project Highlights:

- Built to government school construction standards
- Includes handwashing station and student hygiene education



# Gravity Flow Scheme

**Unit Cost: $3,450 | Beneficiaries: Up to 250 people**

**Warranty of Materials: 25 years | Average time to completion: 6 months**

In Pakistan's mountainous northern regions — Gilgit-Baltistan, Khyber Pakhtunkhwa, AJK — villages often sit below clean, flowing springs. A gravity flow scheme channels this spring water through pipes to a village distribution system, delivering clean water 24 hours a day with zero energy input.

Once installed, a well-maintained gravity scheme can run for decades. This project is ideal for mountain villages where elevation, terrain, and clean spring sources make it possible — providing a level of water service reliability that surpasses almost any other technology.

### Project Highlights:

- Zero energy required — pure gravity-fed distribution
- Ideal for mountainous north Pakistan with spring sources
- Extremely low operating cost once installed
- Decades of operational life with basic maintenance



# Dug Well

**Unit Cost: $2,650 | Beneficiaries: Up to 200 people**

**Warranty of Materials: 10 years | Average time to completion: 6 months**



In areas where a shallow, clean water table exists and drilling equipment cannot easily access, a properly constructed dug well with a protective lining and fitted hand pump is a reliable, community-maintainable water source. Earth is excavated and concrete cemented rings are placed for structural integrity and longevity. HHRD constructs dug wells to strict site standards — with a sealed apron, drainage channel, and protective casing that prevents surface contamination from reaching the water table, plus pulleys, ladders, and access infrastructure to ensure the well remains usable and safe for the full community.

All sites are assessed using a Water Electrical Resistivity Survey to confirm water availability before excavation begins, and a Local Project Management Committee is formed to oversee maintenance.

## Project Highlights:

- Concrete ring lining for structural integrity and longevity
- Sealed apron and drainage channel prevent surface contamination
- Site selection confirmed by Water Electrical Resistivity Survey
- Community management committee ensures ongoing ownership



# Submersible Pump

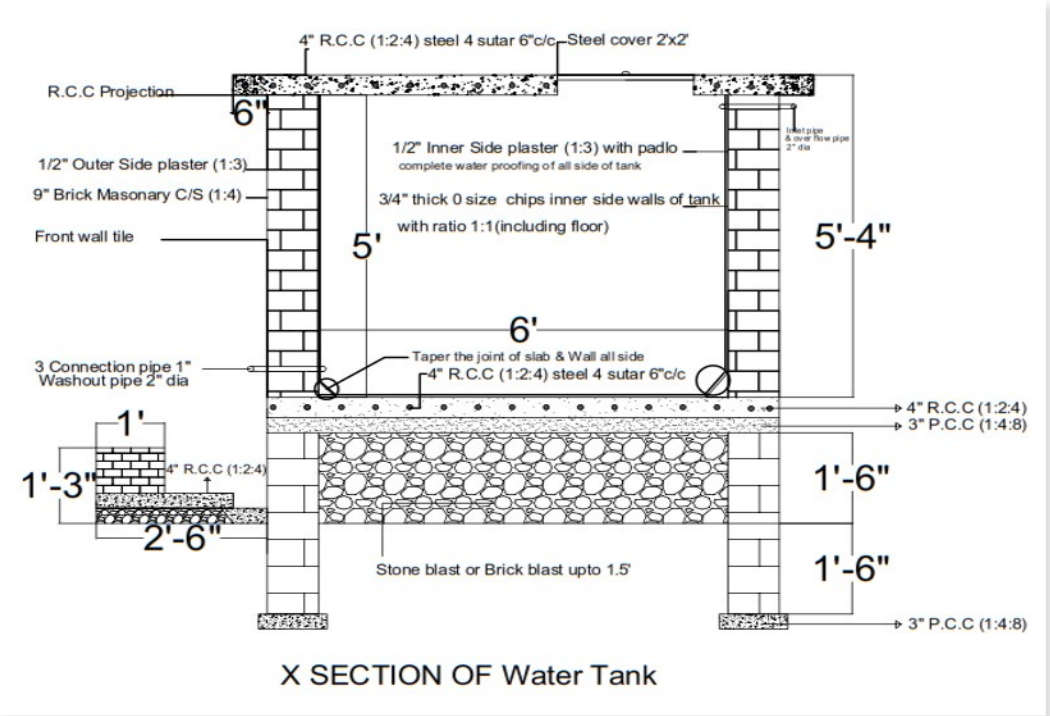
**Unit Cost: $3,450 | Beneficiaries: Up to 250 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**

A submersible pump is installed directly in the borehole or well, submerged in the water and pushing it upward to a storage tank and distribution system. HHRD's submersible pump installations include the full distribution system — tank, piping, and tap stands — providing a complete community water supply.








X SECTION OF Water Tank

HELPING HAND
FOR RELIEF AND DEVELOPMENT

# Solar Based Water Project

**Unit Cost: $1,300 | Beneficiaries: Up to 200 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**



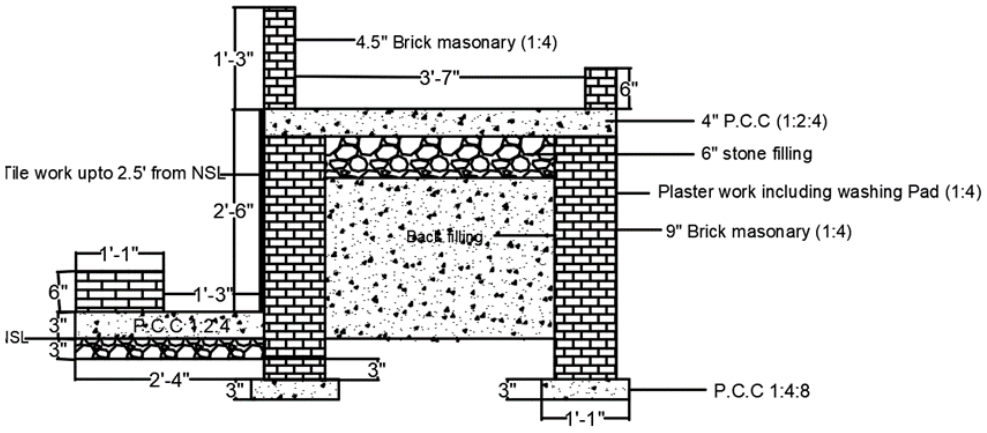
Pakistan's electricity supply is unreliable across much of the country — load shedding routinely reaches 12–18 hours per day in rural areas, and in many communities there is no grid connection at all. A solar-powered water system eliminates this dependency entirely. HHRD prioritizes these installations at mosques, madrasas, and community centers where children gather for Quran education — sites where clean water serves the greatest number of people at once.

## Beneficiary Statement

Hafiz Muhammad Saeed, Head of Jamia Masjid & Madrasa Al Qadoos Anwar e Mustafa, District Layyah says, "This initiative has not only provided us with clean and safe drinking water but has ensured it is available free of cost, thanks to sustainable solar technology. Your support has made a significant impact on our lives."

## Project Highlights:

- Eliminates dependency on Pakistan's unreliable electricity grid
- Prioritized at mosques, madrasas, and schools
- Low operating cost — no fuel, minimal maintenance




X-Section of Solar Powered water project

# Afrediv or 2 Abayar Pumps

**Unit Cost: $1,000 | Beneficiaries: Up to 150 people**

**Warranty of Materials: 5 years | Average time to completion: 6 months**



The Afrediv pump — also deployed in Afghanistan and across Africa — is a dependable, manually operated pump suited to moderate well depths. In Pakistan it is frequently installed in small rural communities in Punjab, Sindh, and KPK where groundwater is relatively shallow and where a simple, repairable pump meets community needs perfectly.

The Abayar hand pump is a shallow-well, community-scale hand pump widely used in Pakistan for its ease of installation, low cost, and simple maintenance. It is ideal for smaller, more remote communities where a single water point serves a cluster of households. Two Abayar pumps can be installed for the same cost as one Afrediv, offering flexibility in how community coverage is approached.

### Project Highlights:

- Manual operation — no electricity or fuel required
- Simple mechanics — locally repairable with available spare parts
- Site selection through community needs assessment and field verification
- Low-cost, shallow-well hand pump for small communities



# Cambodia:
# Water Tank

**Unit Cost: $1,600 | Beneficiaries: Up to 300 people**

**Warranty of Materials: 5 years | Average time to completion: 3 months**




In rural Cambodia, many communities depend on seasonal rivers and ponds that dry up or become severely contaminated in the dry season. HHRD installs community water tanks — large-capacity storage vessels — giving villages a reliable, accessible supply point that bridges seasonal gaps.

Each tank installation includes a distribution tap stand, a basic filtration system where needed, and community orientation on safe water handling. The simplicity of the design is its strength: low maintenance, long-lasting, and immediately usable.

## Project Highlights:

- Addresses severe dry-season water scarcity
- Includes distribution tap stands and community orientation
- Low maintenance — appropriate for remote rural settings



# Washroom

**Unit Cost: $700 | Beneficiaries: ~10 household units**

**Warranty of Materials: 5 years | Average time to completion: 6 months**



WASH partners with the Shelter Relief Program to bring sanitary facilities to fishing and farming families. Living under the poverty line for multiple generations, these rural beneficiaries are previously unhoused or living in tenuous circumstances. A washroom is completed on the premises for t $700 per unit. It is one of HHRD's most cost-effective interventions — with outsized impact on community health, school attendance, and dignity.

## Project Highlights:

- Addresses open defecation and contamination risk
- Improves school attendance, especially for girls
- Durable construction suited to tropical climate
- Includes hygiene awareness component



# Indonesia:
# Water Tank with Borehole

**Unit Cost: $2,500 | Beneficiaries: Up to 100 people**

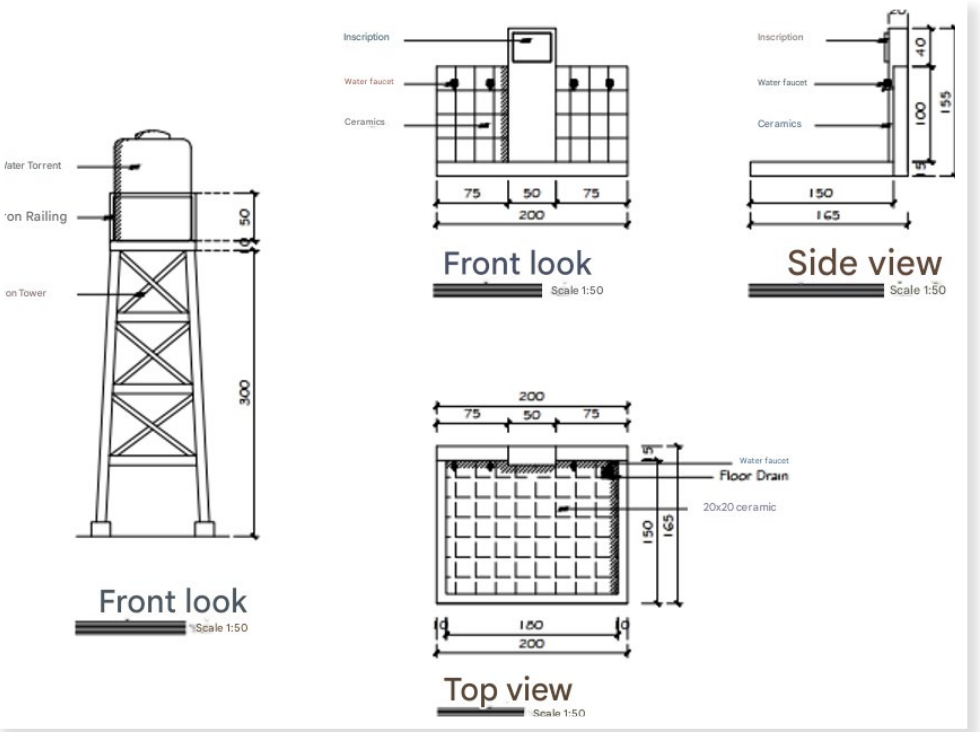
**Warranty of Materials: 5 years | Average time to completion: 3 months**




Indonesia includes thousands of underserved rural communities where piped water doesn't exist and surface sources are contaminated. HHRD's combined water tank and borehole installation drills directly into clean groundwater and pumps it into an elevated storage tank, creating a gravity-fed distribution system that serves the community 24 hours a day.

## Project Highlights:

- Integrated borehole and tank for continuous supply
- Suitable for remote and island communities



# Global Hygiene Kit Distribution

**Unit Cost: $200 | Beneficiaries: Up to 150 people**

A hygiene kit is one of the most immediate, dignified gifts HHRD can deliver in a crisis. Each kit contains essential personal hygiene supplies — soap, shampoo, toothpaste, toothbrushes, sanitary pads, and other culturally appropriate items. HHRD delivers hygiene kits all over the world both in emergency situations and as part of ongoing development projects.

Kits are also distributed in HHRD's WASH project areas as a complementary intervention — reinforcing the behavior change that makes water infrastructure investments stick.

## Project Highlights:

- Targets remote and post-disaster communities
- Supports water and sanitation infrastructure with products that allow beneficiaries to maintain hygiene
- Paired with hygiene messaging in local languages
- Culturally appropriate



# Global Maintenance Fund

**Unit Cost: $100**





HHRD is committed to the communities we serve. Projects are handed over to the community upon completion, but that does not mean the end of our support. HHRD's dedicated maintenance fund ensures that existing water infrastructure across Africa stays operational. From replacing worn seals on hand pumps to repairing solar controllers and storage tanks, this fund keeps the water flowing long after the initial installation is complete.

Maintenance is often the least glamorous part of a WASH program — but it may be the most important.

### Project Highlights:

- Keeps existing infrastructure operational for thousands of beneficiaries
- Covers hand pump repairs, solar system servicing, and tank maintenance
- $100 donations go into a general fund that country teams draw on for repairs
- Extends the life of HHRD's full project portfolio
- Supports community mechanics with tools and parts

HELPING HAND
FOR RELIEF AND DEVELOPMENT

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Africa: 20-Liter Jugs ..... $500
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FOR RELIEF AND DEVELOPMENT

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Global Hygiene Kit Distribution ..... up to 150 people
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Pakistan: Gravity Flow Scheme ..... up to 250 people
Pakistan: 2-Unit Washroom for Schools ..... up to 250 students
Pakistan: Submersible Pump ..... up to 250 people
Cambodia: Water Tank ..... up to 300 people
Jordan & Lebanon: Water Trucking ..... up to 600 people
Jordan & Lebanon: Water Storage Tanks (Qty. 3) ..... up to 600 people
Bangladesh: Deep Tube Well ..... up to 700 people
Nepal: Bio-Sand Filtration Community Pump ..... up to 500 people
Gaza: 2-Unit Washroom ..... up to 500 people
Africa: 20-Liter Jugs ..... up to 500 people
Africa: Water Trucking ..... up to 1,500 people
Afghanistan: RO Plant ..... up to 1,500 people
Nepal: Water Treatment Plant ..... up to 1,500 people
Pakistan: Tube Well ..... up to 1,500 people
Afghanistan: Afrediv Pump ..... up to 1,770 people
Gaza: Hygiene Kits ..... up to 2,000 per campaign
Pakistan: RO Plant ..... up to 2,000 people
Pakistan: Ultra Filtration Plant ..... up to 2,000 people
Pakistan: Portable RO Plant ..... up to 2,000 people
Africa: Shallow Well with Afrediv Pump ..... up to 2,000 people
Africa: Rainwater Harvesting ..... up to 2,000 people
Gaza: Water Trucking ..... 2,000+
Africa: Solar Based Water Project ..... up to 7,500 people
Africa: Water Purification Plant ..... up to 15,000 people
Africa: 10,000 Liter Tank ..... up to 15,000 people
Africa: Mega Borehole ..... up to 30,000 people

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FOR RELIEF AND DEVELOPMENT

# Projects by Warranty of Materials - Shortest to Longest


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Africa: Solar Based Water Project..... 10 years
Africa: Mega Borehole..... 10 years
Africa: 5-Unit Washroom in Schools..... 10 years
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Bangladesh: Deep Tube Well..... 10 years
Nepal: Water Treatment Plant..... 10 years
Pakistan: RO Plant..... 10 years
Pakistan: Ultra Filtration Plant..... 10 years
Pakistan: Tube Well..... 10 years
Pakistan: Dug Well..... 10 years
Africa: Water Purification Plant..... 15 years
Pakistan: Gravity Flow Scheme..... 25 years

# How to Support the WASH Program

**Every project in this catalog is ready for your support.**

You can fund a complete project, sponsor a portion, or give to the WASH General Fund where HHRD directs resources to the highest-need projects across the portfolio.

**Ways to Give:**

- Sponsor a complete project — your name or a loved one's name attached to that installation
- Give to the General WASH Fund — HHRD ensures your gift goes where it is needed most
- Organize a campaign — bring this catalog to your community, mosque, or organization

## Contact the HHRD WASH Team:

**Shabana Abeda, WASH Program Manager**

**Shabana.Abeda@hhrd.us**

Sa'd ibn 'Ubadah reported: I said, "O Messenger of Allah, my mother has died. Shall I give charity on her behalf?" The Prophet, peace and blessings be upon him, said, "Yes." I said, "Which charity is best?" The Prophet said, "A drink of water."(Abu Dawud).

Thank you

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