



HELPING HAND
FOR RELIEF AND DEVELOPMENT

Water And Sanitation Hygiene Program

ANNUAL REPORT - 2025



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EMPOWERING.**



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Executive Summary

The Water, Sanitation, and Hygiene (WASH) Program 2025 represents HHRD's comprehensive global response to the critical water and sanitation crisis affecting millions of vulnerable people across eight countries and regions. Through innovative water solutions, improved sanitation infrastructure, and hygiene promotion, HHRD has delivered life-saving WASH interventions that restore dignity, prevent disease, and build community resilience.

Key Achievements

- Reached over 1,000,000 direct beneficiaries across multiple countries
- Installed 800+ water projects including filtration plants, wells, and solar-powered systems
- Distributed 45,000+ hygiene kits to vulnerable families
- Constructed/rehabilitated 200+ sanitation facilities
- Provided water trucking services reaching 450,000 people in Africa
- Integrated SCADA technology for real-time water quality monitoring
- Prioritized solar energy solutions for sustainable, climate-resilient water access

The program successfully addressed diverse water and sanitation crises including drought-induced water scarcity in Africa, contaminated groundwater in Pakistan, extreme winterization needs in Lebanon, humanitarian emergencies in Gaza, infrastructure gaps in Nepal, heat-related water stress in Afghanistan, and refugee camp needs in Jordan. Each intervention was designed with community participation, technical innovation, and long-term sustainability in mind.

Global Impact

The following table summarizes the reach and scope of WASH interventions across all operational countries in 2025.

Country/Region	Type of Intervention	Beneficiaries
Africa	Water projects (55), trucking (500 trips), hygiene kits (200), latrines (8)	761,080
Pakistan	Water projects (692), solar systems, filtration plants, wells	177,818
Nepal	Bio-sand filters (35), water treatment plants (7), hygiene campaigns (42)	19,058
Afghanistan	Water filtration plants (3), pumps/solar (2), hygiene kits, hand pumps (22)	21,373
Gaza	Hygiene/dignity kits distribution	18,350
Jordan	Washrooms, hygiene kits, water filters, storage tanks, fresh water	4,920
Lebanon	Restrooms (10), water storage tanks (20)	178
Cambodia	Restrooms (20), water tanks (20), hygiene kits	1,637
Indonesia	Deep tube wells (18), toilets (13), hygiene kits	562
Malaysia	Hygiene kits	1,000
Philippines	Water purification system with electrical water pump	2,050
TOTAL	Multiple comprehensive interventions	1,008,026

Water Filtration and Treatment Systems

HHRD deployed multiple types of water treatment technologies tailored to local water quality challenges, infrastructure availability, and community needs. These systems range from simple bio-sand filters to advanced reverse osmosis plants with SCADA monitoring.

Technology Types Deployed:

- **Bio-Sand Filtration (BSF):** Natural gravity-based filtration using sand layers and aeration - 35 units in Nepal
- **Drinking Water Treatment Plants (DWTP):** UV/UF/MF technology with dual-membrane systems - 7 units in Nepal
- **Reverse Osmosis (RO) Systems:** Advanced filtration for high-TDS water - multiple units in Pakistan
- **Solar-Powered Water Systems:** Climate-resilient, off-grid solutions - 13 units in Africa, 117 in Pakistan
- **SCADA-Enabled Monitoring:** Real-time water quality tracking for major filtration plants in Pakistan





Solar Integration and Climate Resilience

Recognizing energy poverty and climate challenges, HHRD prioritized solar-powered water solutions as a strategic focus for 2025. Solar systems eliminate electricity costs, reduce carbon emissions, and ensure water access in off-grid or power-deficient areas.

2025 Solar Achievements:

- **Africa:** 13 solar-based water projects installed
- **Pakistan:** 117 solar-based drinking water systems
- **Afghanistan:** Solar panels and pumps for 2 locations
- Strategic goal to transition majority of water projects to green energy

Hygiene Promotion and Kit Distribution

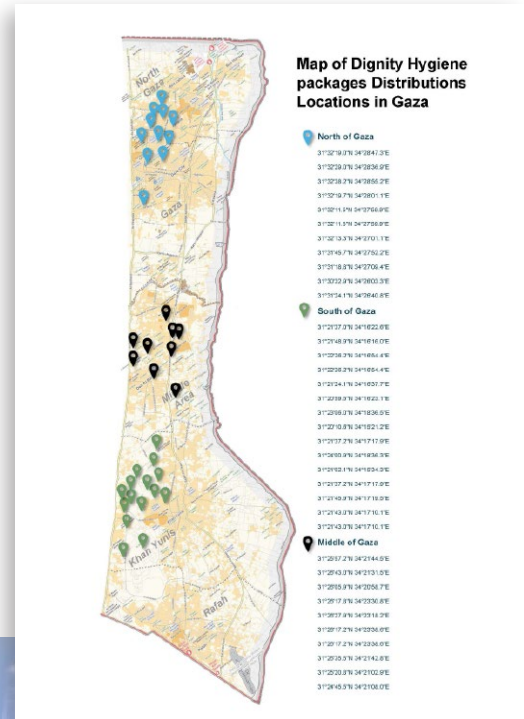
Hygiene kit distribution coupled with awareness campaigns formed a critical component of disease prevention and dignity restoration, particularly for displaced populations, women, and children.

Typical Kit Contents

- Soap, detergent, and hand sanitizer
- Toothbrushes and toothpaste
- Sanitary pads for women and girls
- Tissues and toilet paper
- Diapers for infants
- Shampoo and personal care items

2025 Distribution

- **Gaza:** 3,670 packages
- **Africa:** 41,750 households received hygiene kits
- **Nepal:** 1,050 students received hygiene kits
- **Afghanistan:** 730 beneficiaries (universities)
- **Total:** 45,000+ kits distributed globally





Sanitation Infrastructure

HHRD constructed and rehabilitated sanitation facilities ranging from basic latrines to fully equipped, weather-resistant restroom units with privacy features, particularly benefiting women and persons with disabilities.

2025 Achievements

- **Lebanon:** 10 private, winterized restroom units for Syrian refugees in Aarsal
- **Africa:** 8 five-door latrine facilities serving 10,908 people
- **Jordan:** Washroom construction and rehabilitation
- **Design features:** Privacy locks, internal lighting, gender-segregated, disability-accessible

Sustainable Development Goals Alignment

- **SDG 6:** Clean Water and Sanitation: Core program focus - sustainable access to safe water and sanitation
- **SDG 3:** Good Health and Well-Being: Preventing waterborne diseases through clean water
- **SDG 5:** Gender Equality: Reducing burden on women; providing dignity through private sanitation
- **SDG 7:** Affordable and Clean Energy: Solar-powered water systems
- **SDG 13:** Climate Action: Climate-resilient solutions and reduced emissions
- **SDG 10:** Reduced Inequalities: Ensuring vulnerable populations have equal access
- **SDG 17:** Partnerships for the Win. HHRD partners with local and global humanitarian organizations in pursuit of safe drinking water.



Africa

Drought Response and Water Security

Prolonged drought conditions, climate-induced water scarcity, and displacement caused by regional conflict significantly reduced access to safe drinking water. Over 80% of affected populations rely on humanitarian aid for basic survival, with women and children bearing the heaviest burden of water collection.

2025 Interventions

- 33 shallow wells constructed - 58,896 beneficiaries
- 13 solar-based water projects - 22,530 beneficiaries
- 6 rainwater harvesting projects - 12,006 beneficiaries
- 2 water filtration plants - 60,000 beneficiaries
- 1 borehole - 30,000 beneficiaries
- 500 water trucking trips - 450,000 beneficiaries
- 8 five-door latrine facilities - 10,908 beneficiaries
- 41,750 households received hygiene kits and training
- 2,500 twenty-liter storage tanks distributed
- 10 ten-thousand-liter collapsible tanks distributed

Success Story

Hassan, Bungoma



Before the shallow well, Hassan and his family traveled long distances to fetch water from unsafe river sources, often getting sick. Children missed school to help collect water. The new shallow well serving 2,300 people brought clean water close to homes and schools. Hassan says: "Now I can go to school and still have time to play." The well is more than just a water source—it is a foundation for better health, education, and hope.

Pakistan

Addressing Nationwide Water Crisis

Pakistan faces a profound water crisis affecting over 250 million people. More than 80% of the population lacks reliable access to safe drinking water.

2025 Interventions

- Affordable hand pumps: 56 units
- Community hand pumps: 333 units
- Deep tube wells: 7 units
- Domestic RO systems: 3 units
- RO plants: 2 units
- Portable RO: 2 units
- Ultra-filtration systems: 4 units
- Solar-based drinking water systems: 117 units
- Submersible pumps: 37 units
- Gravity flow schemes: 59 units
- Dug wells: 56 units



Success Story:

Islamia University Bahawalpur

Over 1,500 female students faced contaminated water with TDS exceeding 1,200 ppm. Unable to afford bottled water, students frequently fell ill, disrupting studies. Despite hardships, students advocated for their rights. HHRD installed a SCADA-controlled RO plant, reducing TDS from 1,200 to 150 ppm, removing 99% of contaminants. Each student now saves PKR 3,000-4,500 monthly on bottled water. Students say: "We no longer choose between education and well-being. Clean water has restored both our dignity and hope."



Nepal

Community Water Solutions and Hygiene

Groundwater levels in Nepal's Terai region have been declining due to excessive extraction, deforestation, sand mining, and decreased rainfall. Schools and communities faced contaminated water sources, leading to frequent waterborne diseases and student absenteeism.

2025 Interventions

- 35 Bio-Sand Filtration plants with community hand pumps - 12,127 beneficiaries
- 7 Drinking Water Treatment Plants - 6,681 beneficiaries
- 1 Submersible Well Pump Water Supply System (pilot) - 250 beneficiaries
- 42 Sanitation and Hygiene Awareness campaigns - 1,050 beneficiaries with kits

Success Story:

Roshni Khatun (Age 10), Sarlahi



Roshni's school previously relied on a hand pump near the toilet, creating unsanitary conditions and frequent disease outbreaks. HHRD installed a Bio-Sand Filtration Plant and launched hygiene campaigns. Roshni says: "I carry five large bottles of clean water home for my family. We learned proper handwashing from WHO guidelines. I sincerely thank HHRD for providing this clean water facility that benefits both our school and community."

Afghanistan

Emergency Water and Hygiene Response

Afghanistan faced multiple water challenges including infrastructure damage, contaminated sources, and limited access to safe drinking water in universities, hospitals, and communities. Water scarcity particularly affected educational institutions and healthcare facilities.

2025 Interventions

- Water Filtration Plants: 3 units (Laghman University, Istiqlal Hospital, Sari e Pul University) - 8,850 beneficiaries
- Water Pump and Solar: 2 installations (Kandahar, Kabul) - 1,400 beneficiaries
- Hygiene Kits: 730 beneficiaries (universities)
- Affordable Hand Pumps with Bore Wells: 22 units (Kunduz 5, Nangarhar 17) - 5,954 beneficiaries
- Total beneficiaries: 16,934 individuals



Gaza

Emergency Dignity and Hygiene Response

Gaza faces an unprecedented humanitarian crisis due to prolonged blockade since 2007 and successive military operations. Over 80% of the population relies on humanitarian aid. Water and sewage systems are extensively damaged, and severe shortage of personal hygiene items poses serious health risks.

2025 Intervention

Distribution of 3,670 dignity hygiene packages reaching 18,350 individuals across North, Central, and South Gaza.

- Northern Gaza: 1,050 packages
- Central Gaza: 1,001 packages
- Southern Gaza: 1,619 packages
- Budget: USD 204,419

Success Story:

Layan



In their tent, Layan and her sister received a hygiene kit. The scent of soap meant reclaiming dignity. The elder sister whispered: "Today, we will wash the exhaustion off our faces."

Jordan

Multi-Sectoral WASH Response

Jordan experiences sustained humanitarian pressure from regional instability and severe water scarcity. The refugee crisis has strained infrastructure.

- Washroom construction and rehabilitation
- Hygiene kit distribution
- Household water filters
- Fresh water delivery
- Water storage tanks



Lebanon

Winterized Sanitation for Refugees

Arsal, Lebanon hosts Syrian refugees in harsh mountain conditions. Temperatures drop below 0°C in winter.

2025 Intervention

10 weather-resistant restroom units and 20 water storage tanks with iron bases for 30 families (178 individuals).

- Modular, winterized design
- Iron bases prevent water freezing
- Private, lockable facilities
- Budget: USD 18,800

Success Story:

Doha



Doha, a widow with three children, used to fear nighttime walks to distant latrines. The private restroom transformed her life. "It is more than just a bathroom. It is the first time in years we feel safe and respected."

Association of South East Asian Nations (ASEAN)

HHRD extends its support to South East Asian Nations including Cambodia, Indonesia and the Philippines. Targeting rural communities with little access to water infrastructure, we are able to make the biggest difference.

Malaysia

HHRD delivered hygiene kits benefitting 1,000 people.

Cambodia



In Cambodia, WASH partners with the Shelter Relief Program to deliver both sturdy, weather resistant homes and clean bathrooms for the beneficiaries. In addition, HHRD provides community water tanks with filtered water for the community to drink and wash.

Indonesia

Projects implemented in 7 provinces: Central Java, Yogyakarta, West Java, East Java, Banten, and Aceh.

- 365 families gained access to clean water from water well projects.
- 197 families benefited from improved sanitation facilities.

Innovation Alert!

Each project site in Indonesia is equipped with a QR code (barcode) that beneficiaries can easily scan using their mobile phones. Through this system, community members can submit feedback, report technical issues such as non-functioning water systems, request maintenance support, and share suggestions for improvement.

Success Story: Endang



Having a well just a few steps from our home has been life changing. My children can drink and wash safely, and I no longer worry about waterborne illnesses spreading in the village."
- Endang, a community member in Tasikmalaya, West Java

Philippines

A single Water Purification System with Electrical Water Pump was installed, supporting an entire community of 2,050 people. This system purifies ground water through a four-stage fine filtration process, removing particulates and harmful microorganisms. The result is a sustainable water solution that meets household needs for both utility and safety.



Conclusion and Way Forward

The WASH Program 2025 successfully delivered comprehensive interventions across eight countries, reaching nearly one million beneficiaries. Through 800+ water projects, 45,000+ hygiene kits, and 200+ sanitation facilities, HHRD demonstrated its commitment to safe water access, disease prevention, and dignity restoration.

Key Success Factors:

- Technology innovation: SCADA monitoring, solar integration
- Community participation: 692 water committees, 104 trained operators
- Climate resilience: Solar energy focus
- Cultural sensitivity: Gender-segregated, disability-accessible facilities

Way Forward

HHRD will continue expanding WASH interventions while strengthening technology innovation, accelerating solar adoption, enhancing monitoring systems, and building community sustainability.

The WASH Program represents life-saving impact of clean water and dignified sanitation. Every project installed represents renewed health, restored dignity, and strengthened hope.

Thank you



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