

WATER FOR LIFE

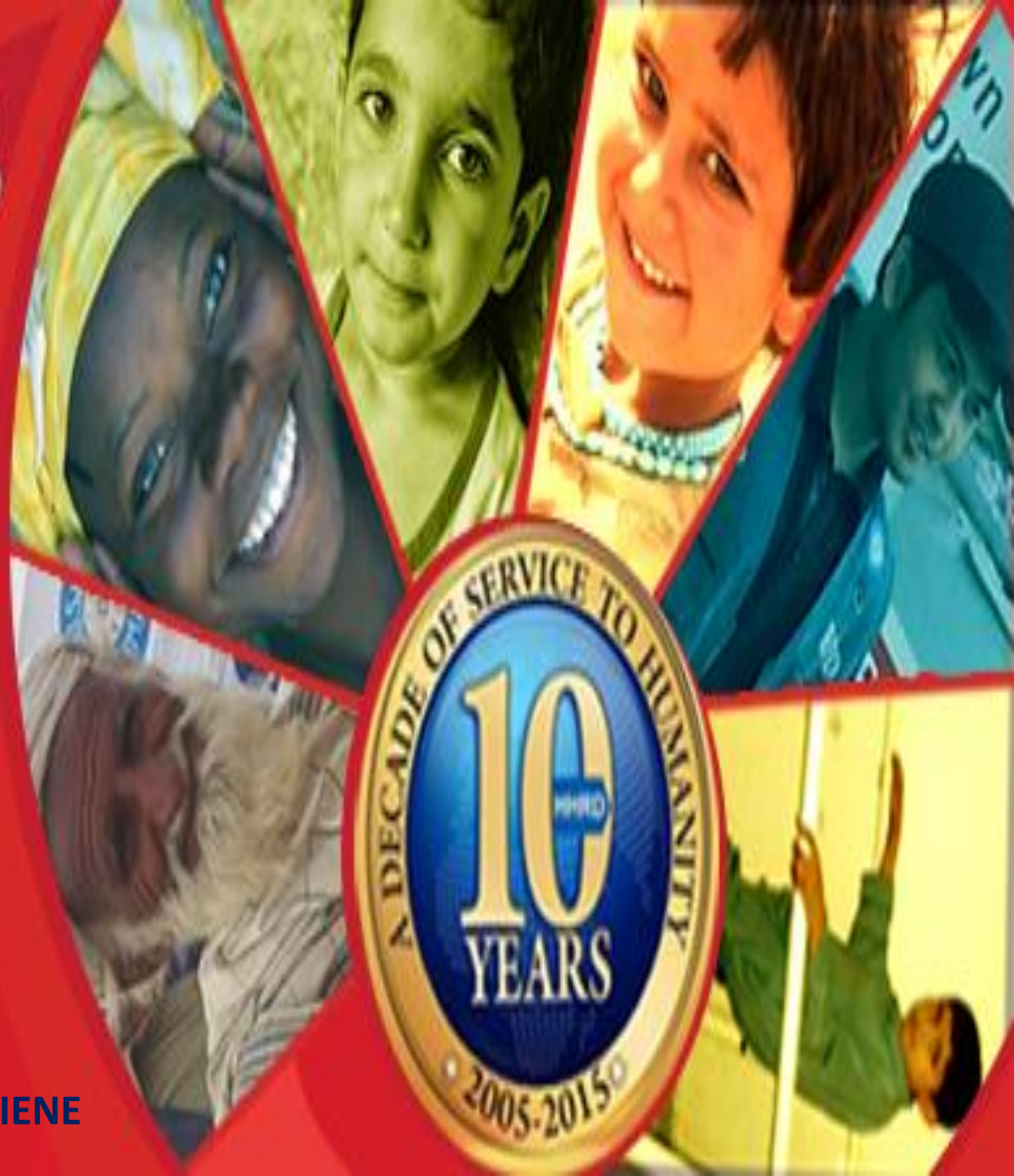
*Celebrating*

**A**

**DECADE**

**OF**

**SERVICE**



WATER AND SANITATION HYGIENE

# **Aspiration Behind Starting of HHRD: September 2005**

***And We have not sent you  
[Muhammad] but as a  
Mercy to the Worlds...  
(Quran 21:107)***

# **Vision Statement of HHRD**

**Helping Hand for Relief And Development (HHRD) as a Leader, empowering lives, creating opportunities, and strengthening the bond of humanity.**

# HHRD : Credible Standing

## By the GRACE of GOD

Six Years in a Row Top ★ ★ ★ ★ Charity Navigator



BBB Accredited Charity



HHRD Member of Prestigious InterAction:  
Alliance of 180+ NGOs in Washington, D. C.





# HHRD Registered as NGO

- Pakistan (2005)
- Haiti (2010)
- Kenya (2011)
- Somalia (2011)
- Jordan (2013)
- Philippines (2014)
- Afghanistan (2014)
- Mexico (2014)
- Uganda (2014)
- Tanzania (2015)
- South Africa (2016)
- Kosovo (2016)
- Nepal (2017)
- Myanmar (Expected Soon)
- Macedonia (Expected Soon)

# HHRD Partners

- Albania
- Bangladesh
- Bosnia and Herzegovina
- Brazil
- Burma (Myanmar)
- Burundi
- Cambodia
- Central African Republic
- Chad
- Djibouti
- Dominican Republic
- Ethiopia
- Ghana
- Guyana
- India
- Indonesia
- Japan
- Kashmir Valley

# HHRD Partners

- Lebanon
- Macedonia
- Malawi
- Mali
- Montenegro
- Rwanda
- Sierra Leone
- South Sudan
- Sri Lanka
- Sudan (Darfur)
- Thailand
- Tunisia
- Vietnam

- ❖ Emergency Relief
- ❖ Water For Life (WFL) &
- ❖ Water And Sanitation Hygiene (WASH)
- ❖ Comprehensive Physical Rehabilitation
- ❖ Health Care
- ❖ Education Support
- ❖ Infrastructure Development
- ❖ Public Advocacy & Social Justice
- ❖ Seasonal  
(Zabiha / Qurbani / Iftar / Fitra / Eid Gifts / Winter Provisions)



- ❖ Matching Gift
- ❖ Orphans Support
- ❖ Children with Disabilities
  - ❖ In-Kind Gifts
  - ❖ Skills Development
- ❖ Islamic Esaar Micro-Finance
  - ❖ Youth Empowerment
  - ❖ Summer Internship
- ❖ Youth for Haiti & Jordan



**HELPING HAND**  
FOR RELIEF AND DEVELOPMENT

# **Understanding of the Program and Annual Review 2016 & Plan for 2017**



***...improving lives through the  
provision of safe and clean water***



**“.....and if any one saved a life, it would be as if he saved the life of the whole mankind...(Surah AL-Maidah 005 – Aayah 32)**







Prophet Muhammad (SAWS) said,

*“The Best Charity is to Provide Water...”  
(Ibne Majah - - Hasan)*

Prophet Muhammad (SAWS) said,  
*“Cleanliness is Half the Faith...”*  
(Ibne Majah - - - Hasan)







7

ENSURE ENVIRONMENTAL  
SUSTAINABILITY

Lack of safe drinking water is a GLOBAL ISSUE. 1.1 billion+ people (1 in 6 people) i.e. 840,000 Annually Die because of Water-Borne Diseases. About 3 billion+ people lack Sanitation.

**GOAL:** Decrease the proportion of the population without sustainable access to safe drinking water and basic sanitation.



## 6 CLEAN WATER AND SANITATION

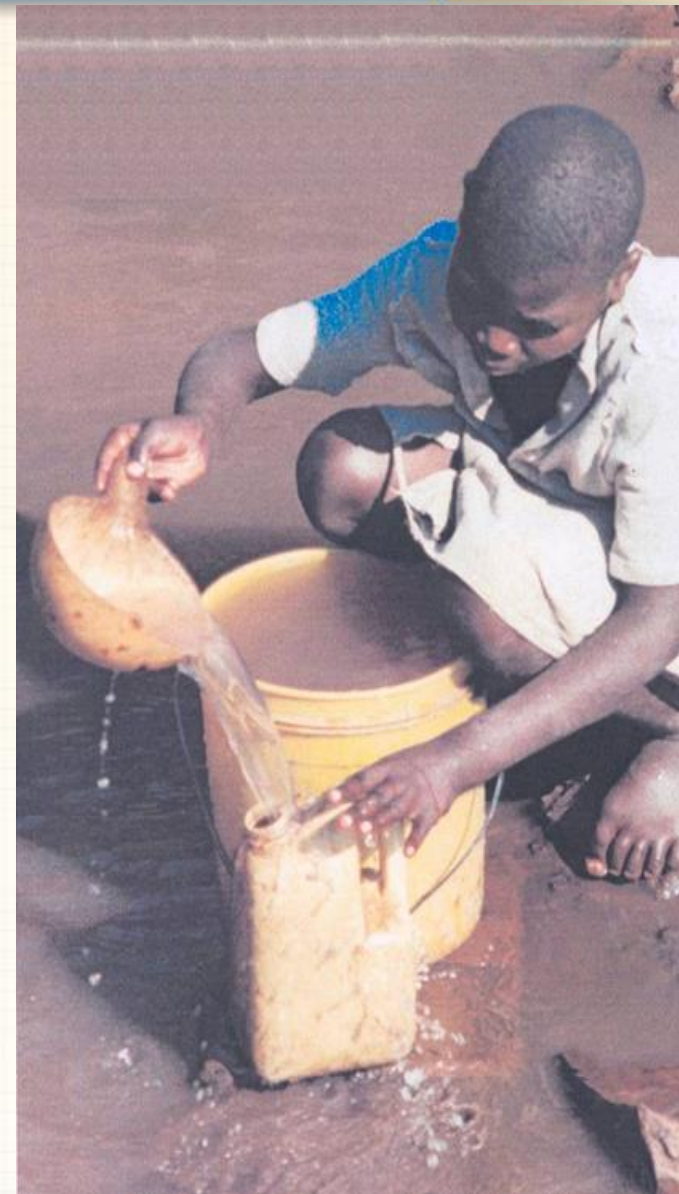


**GOAL: Ensure availability and sustainable management of water and sanitation for all...**





- ❖ There is a lack of safe water & proper sanitation in rural dweller and around the developing world.
- ❖ Poor are particularly vulnerable to chronic illnesses due to few medical resources which hinders their productivity and makes poverty eradication more difficult.
- ❖ Millions of women & children in developing countries travel daily for several hours to get access to water which is polluted.



## Water For Life (WFL) / Water And Sanitation Hygiene (WASH) Objectives of Water and Sanitation Hygiene (WASH)

- ▶ **Strive & discover sources of water where there is a shortage or absence of water**
  - ▶ **Improve access to clean drinking water**
  - ▶ **Prevent water borne diseases**
- ▶ **Create awareness about proper sanitation and hygiene practices, including distribution of basic hygiene products**
  - ▶ **Construct proper sanitation amenities**





*...improving lives through the provision of safe and clean water*



**Locations where HHRD Serves with Water Projects : Tanzania, Uganda, Kenya, Somalia, Afghanistan, and Pakistan**





**HELPING HAND**  
FOR RELIEF AND DEVELOPMENT



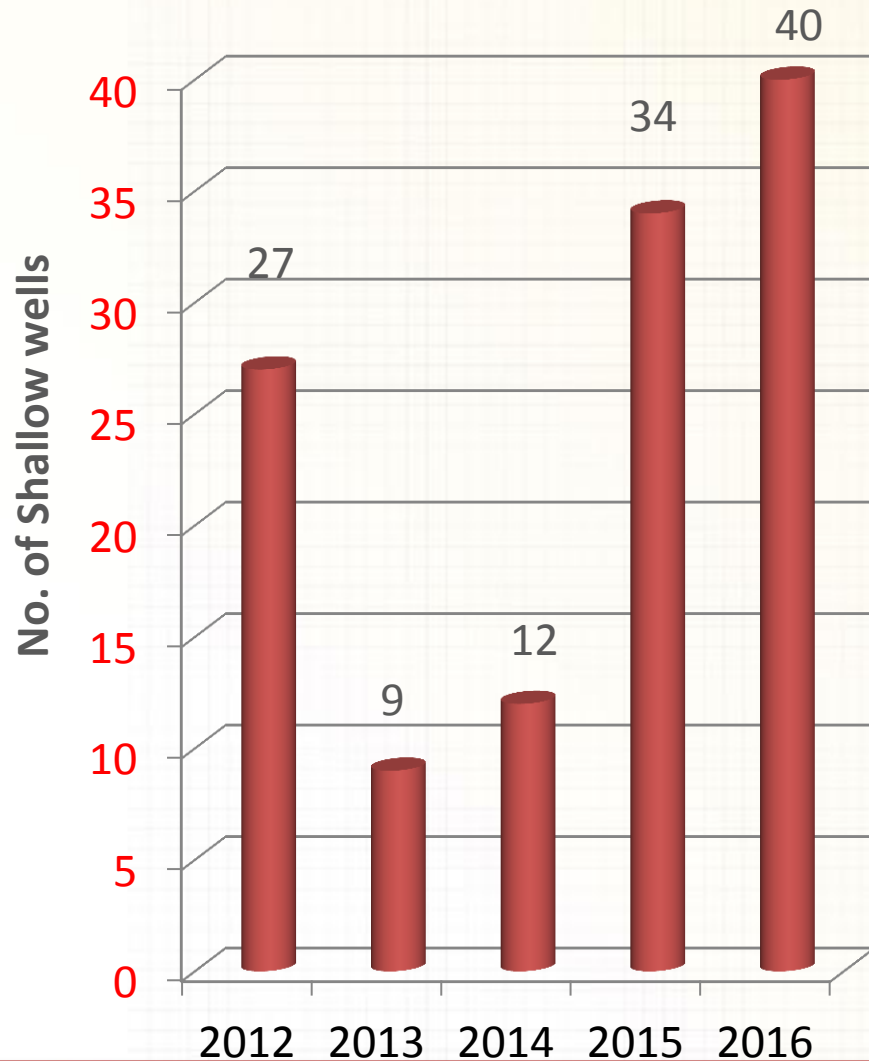
# OVERVIEW 2011-2016

# NUMBER OF SHALLOW WELLS in AFRICA (2011-2016)

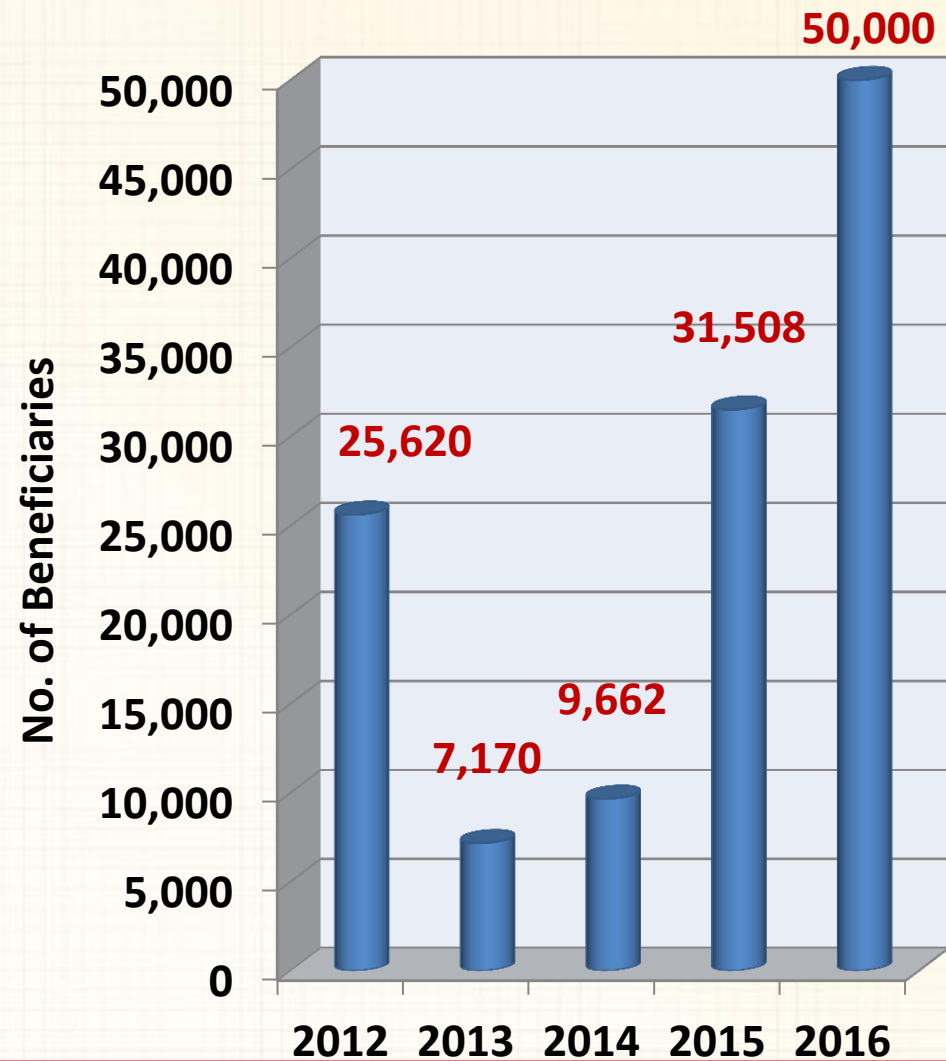
20

YEAR					
COUNTRY	2011-2012	2013	2014	2015	2016
KENYA	15	5	8	12	15
SOMALIA	4	2	4	15	15
UGANDA	-	-	-	7	10
TANZANIA	8	2	-	3	15
TOTAL	27	09	12	34	40
Grand Total		122			

No. of Shallow well

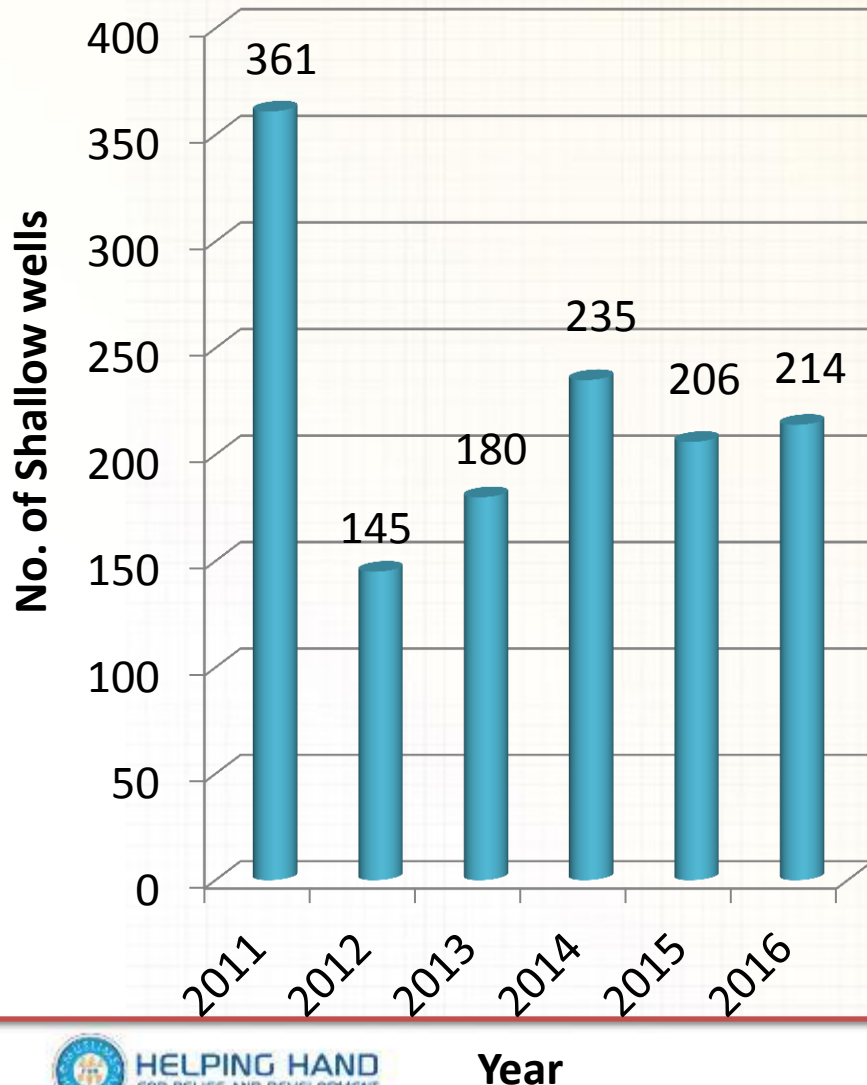


No. of Beneficiaries

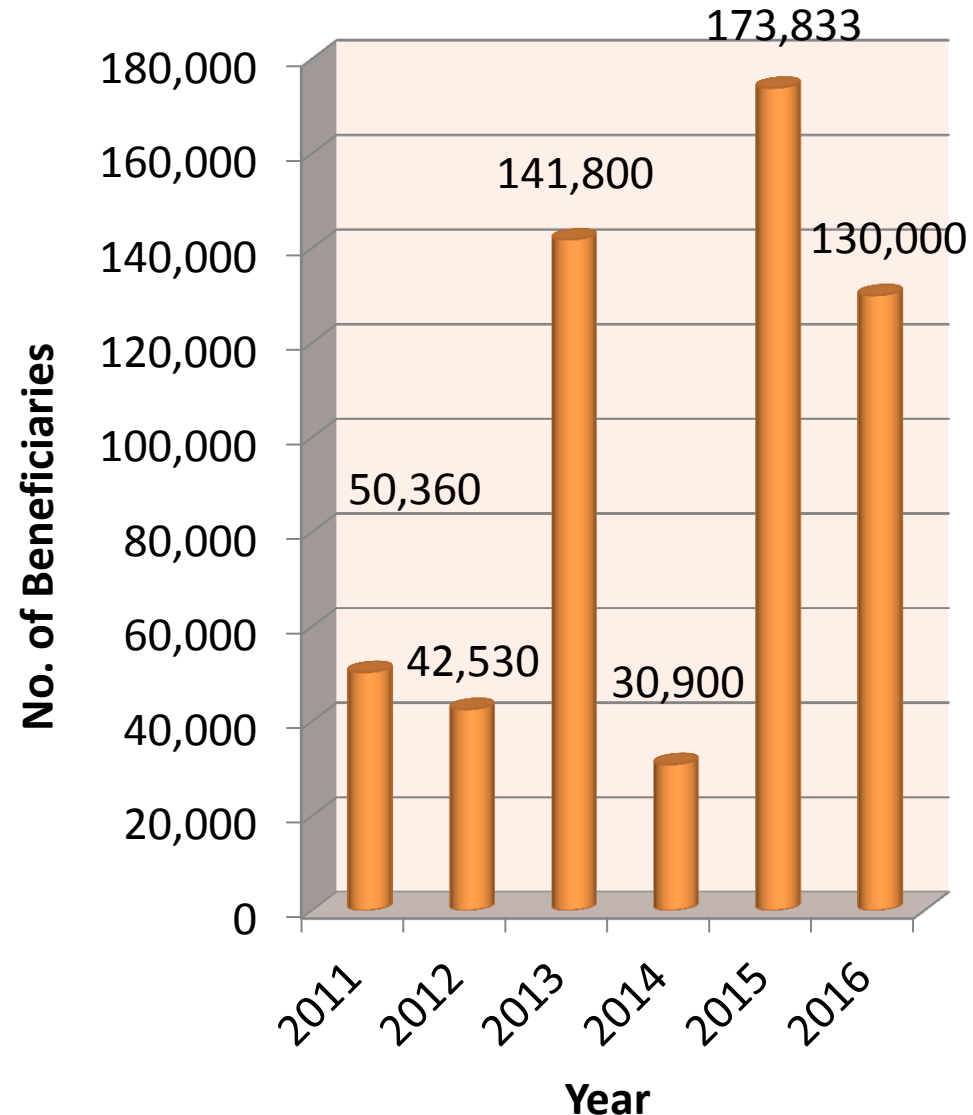


YEAR						
	2011	2012	2013	2014	2015	2016
COUNTRY						
PAKISTAN	361	145	180	235	206	214
Grand Total	1,341					

## No. of Shallow well



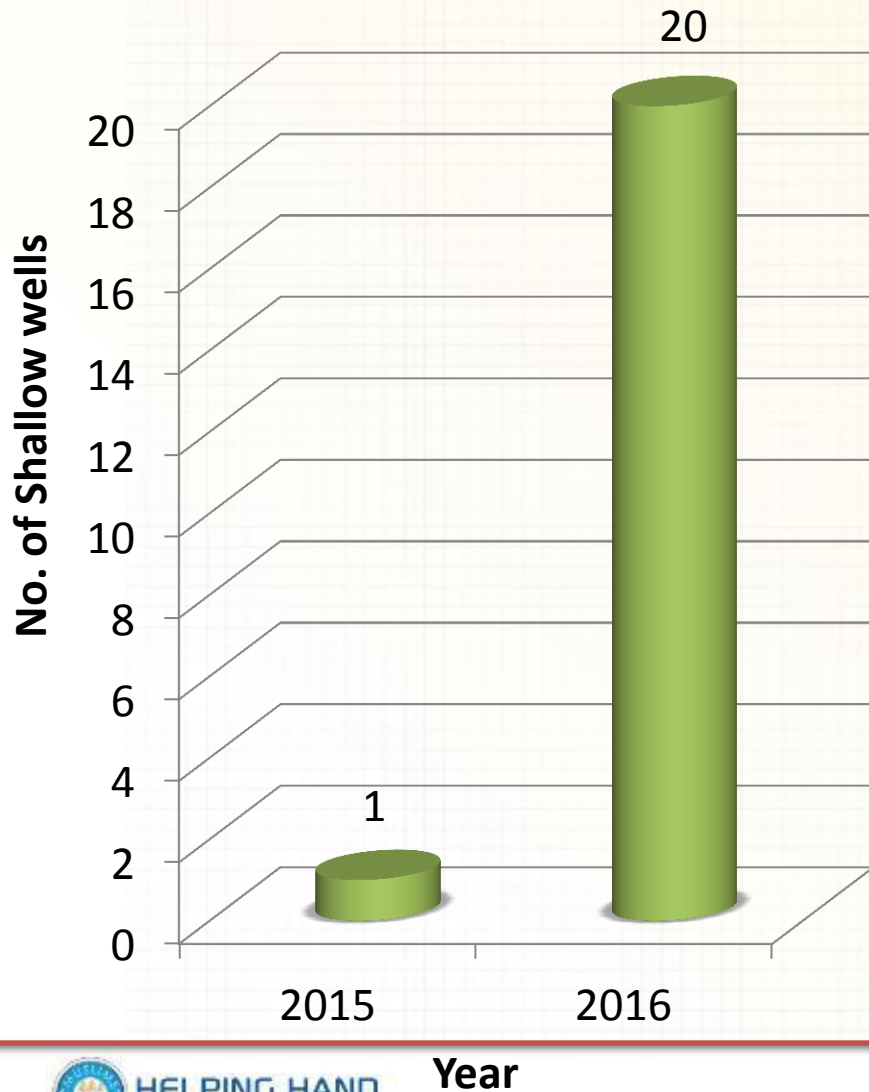
## No. of Beneficiaries



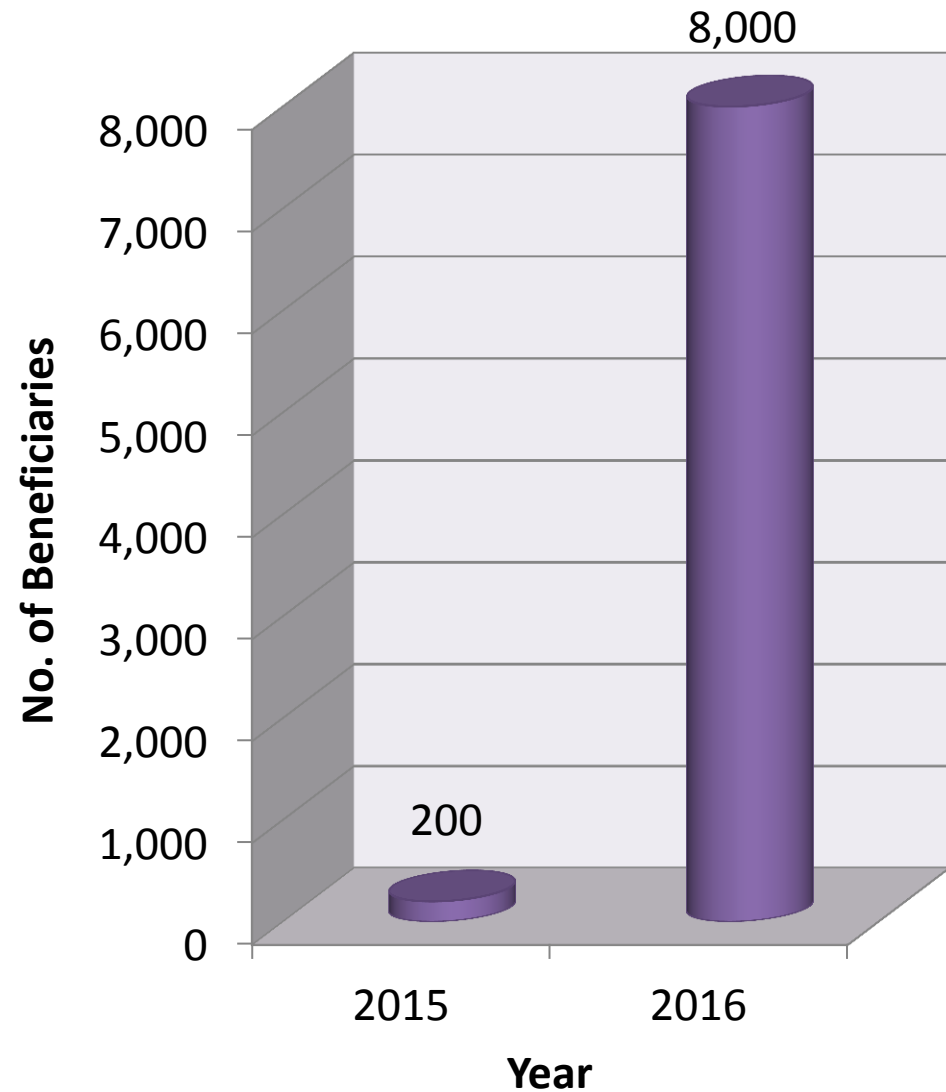


	YEAR	
COUNTRY	2015	2016
AFGHANISTAN	01	20
Grand Total	21	

## No. of Shallow well



## No. of Beneficiaries





- Wells Program

## ● Water Pumps Program

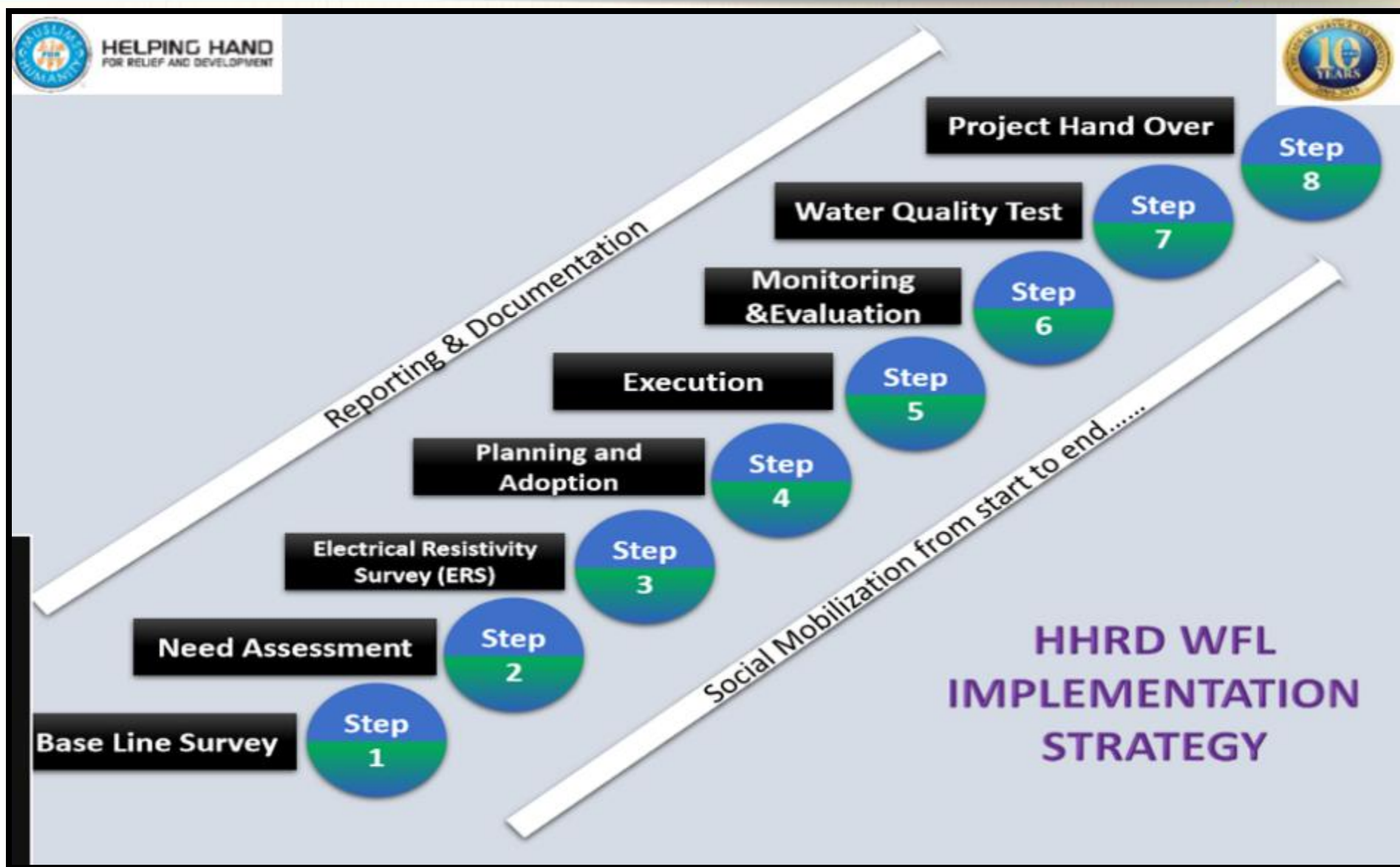
## ● Water Purification Systems

## ● Emergency Relief Program

- **WASH Program**

- 💧 **Water Treatment through Reverse Osmosis (ROs) and Ultra Filtration Plants (UFs)**
- 💧 **Hand Pumps (Affridev: Pakistan and Afghanistan)**
- 💧 **Submersible Pump with Water Storage Tanks**
- 💧 **Dug Well Project with a Pulley**
- 💧 **Shallow Wells with Affridev Pumps in Africa**
- 💧 **Drinking Water Supply Schemes (DWSS)**









**Baseline Survey and Need Assessment**

**Identification of Locations**

**Proposal Development and Approvals**

**Social Mobilization & Formation of Community Organizations**

**Environmental Impact Assessment (EIA) Report and License from Local Authorities**

**Hiring of Contractors**

**Digging and Excavation of Shallow Wells**

**Procurement of Material**

**Installation of Pumps and Electric Motor, Completion of All Construction**

**Water Quality Testing and Treatment where It is Necessary**

**Monitoring and Evaluation**

**Inaugurations and Handing Over to the Community**

**Project Completion Report to the Patrons...**

## Step 1 (Photos from Pakistan and Africa)

### Base Line Survey

**HHRD-team gets initial data regarding water related issues. Team gets survey in the targeted areas through participant observation.**



**Inquiring from community members, Govt. line departments and residents of the areas.**



## Step 2 (Photos from Pakistan and Africa)

### Need Assessment

On preliminary basis, project team asses water need of the area.

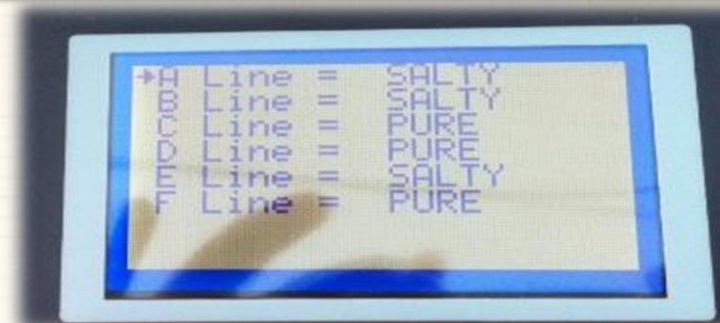


While, considering the view points and water related issues, HHRD-WFL Program observe the vulnerability of local community and recommend the solutions.

### Step 3 (Photos from Pakistan)

#### Electrical Resistivity Survey (ERS)

Before the construction/civil work of the project Electrical Resistivity Survey are supposed be successfully done.



In the outcome of this survey, water quality , ground water availability and depth is to be measured. HHRD team shares this ERS report for approval to the Head Office, before digging/civil work of project.



## Step 4 (Photos from Pakistan)

### Project Planning and Adoption of Locally Available Water Resources

If local water resources are available, HHRD adopts & try to use these resource. At this phase project specifications, comparisons and timelines are supposed be defined by the project implementing agency



HHRD team improves the access to water for everyone, by adoption of local available water resources. While, local drinking water resource are rarely available.



## Step 5 (Photos from Pakistan and Africa)

### Execution of the Project

**Selection of IP/Hiring of contractor is to be done before project execution. Implementation team visits the project site, initiate the work with active participation of community & tries to complete the project within defined timelines.**



**HHRD addresses the problems of water scarcity, propose solutions and launches the projects to provide water in the severely affected areas of Pakistan.**

## Step 6 (Photos from Pakistan) Monitoring and Evaluation (M&E)

**Either self-implementing project or project is done in coordination with IP. Its overall monitoring, evaluation & critical analysis is to be done by HHRD-M&E team.**



**Purpose of monitoring is to determine if the outputs, deliveries and schedules planned have been reached so that action can be taken to correct the deficiencies as quickly as possible.**



## Step 7 (Photos from Pakistan)

### Water Quality Test

It is very crucial to analyze pre-post water quality tests for successful drinking water project implementation. A Pre water quality test determines chemical content in ground water. However, post water quality test is used to measure the quality of treated/filtered water.



PHYSICAL & CHEMICAL PARAMETERS		MICROBIOLOGICAL PARAMETERS	
Parameter	Value	Parameter	Value
pH	7.5	Total Coliforms	100
TDS	150	Fecal Coliforms	50
Hardness	120	Salmonella	0
Chlorine	0.5	Shigella	0
Iron	0.1	Yeast	0
Copper	0.05	Mould	0
Lead	0.01		
Cadmium	0.001		
Chloride	100		
Sulphate	50		
Nitrate	10		
Phosphate	0.5		

Naturally available water comes in contact with various salts. Soil strata's encompasses large quantity of chemicals including; Calcium, Magnesium, Iron, sulphate, Nitrates, Phosphates and Oxygen. Water quality can no longer be taken for granted. There are many variables that come into play. HHRD doing these test from well recognize labs/institutes of Pakistan.

## Step 8 (Photos from Pakistan and Africa)

### Fixing Marble Plaques and Handing Over the Project to the Community



**At this step marble plaques are affixed on the completed water projects, where the organization logo, location name, and the name of the donor are shown for beneficiaries' to make Dua for them...**



## Step 8 (Photos from Africa and Pakistan)

### Fixing Marble Plaques and Handing Over the Project to the Community

At this step HHRD-team demonstrate the water project physically and handed over to the community, after a successful completion.



***“We will always pray for Donors of HHRD and its: May ALLAH give you reward for this kind act...” WFL’s Beneficiary, Mehboob, District Tharparkar***

## Cross Cutting Themes.....

### Social Mobilization & Reporting

**Social Mobilization from very beginning to completion of project, HHRD insure the active participation of community in every step of project cycle.**



**Overall Project Reporting to head office monthly, quarterly and annual basis: Donors received few projects on-going photos, and then the completion reports...**



## Pictorial

### Wash and Hygiene (an Orphan washing his face)



## Pictorial

### Wash and Hygiene (an orphan child washing his hands properly)





# Pictorial

## Wash and Hygiene (an orphan brushing his teeth)



# Pictorial

## Water Supply Through Fire Engine During Thar Drought





# Pictorial

## Water Supply Through Trucks in Africa



<u>What and Where in Pakistan</u>	<u>Various Water Projects</u>	<u>Beneficiaries</u>	<u>Districts Covered</u>	<u>Status</u>
Community Hand Pumps in AJ&K, Balochistan, and KPK	100	20,000	3	Started 2016 and Completed in 2017
Water Wells in Balochistan and KPK	50	16,250	2	Completed
Submersible Pumps in Balochistan and KPK	30	15,000	2	Completed
Gravity Flow Scheme in Gilgit Baltistan and AJ&K	20	10,000	2	Completed
Water Filtration Plants in Sindh	14	70,000	1	Completed
TOTAL	214	131,250	10	



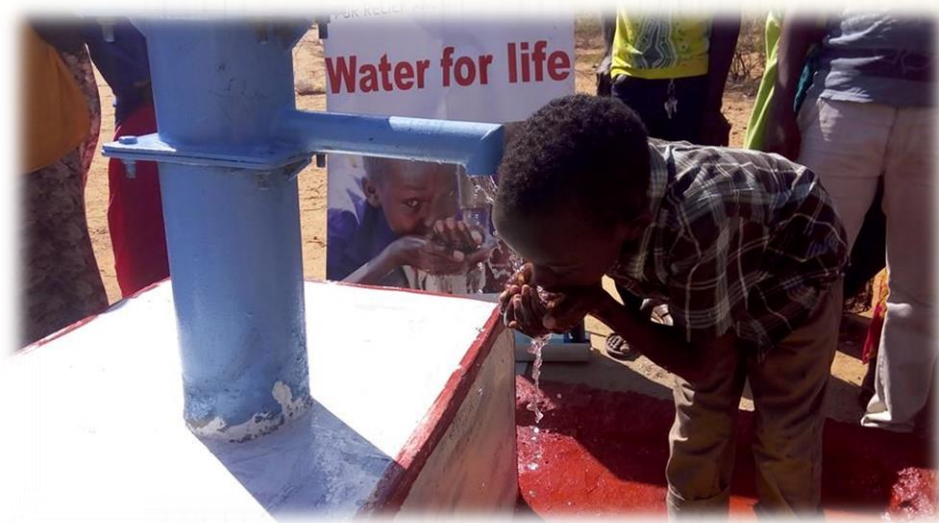
<u>Countries</u>	<u>Shallow Wells</u>	<u>Beneficiaries</u>
Kenya	15	14,000
Somalia	15	14,000
Tanzania	15	14,000
Uganda	10	8,000
Total	40	50,000















**Completion of 214 Projects with the Collaboration of AKFP (Al-Khidmat Foundation Pakistan)**





**WFL Projects Inaugurated by CD-HHRD & Director Operations in various parts of Pakistan.**



**SKYLARK ENGINEERING** *for a future Pakistan*

**Electrical Resistivity Survey (ERS) Report**

Report Sr. No	001	Location	Dhok Hassan Pump
Client Name & Address	HMRD	Client Code	HR-SLE-01
Test Date	16-08-2015	Reporting Date	18-08-2015

SNO	A	Zone	Value 30m	Depth 40m	Quantity 60%
UNE	B	Pure	Value 301	Depth 40m	Quantity 60%
UNE	C	Normal	Value 344	Depth 40m	Quantity 40%
UNE	D	Normal	Value 340	Depth 40m	Quantity 30%
UNE	E	PURE	Value 238	Depth 40m	Quantity 30%
UNE	F	Pure	Value 256	Depth 40	Quantity 60%

**Machine Indications:**

- Less than 320 means that "Fresh Water"
- From 320 to 400 water is "Normal"
- More than 400 water is "Salty"
- More than 600 or seepage water means "No Water"

Test By	Checked By	Verified By	Verified By
Shahzad Khan	Nasir HMRD	Dr Sohail	Dr Imran

**PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**  
Ministry of Science & Technology  
Water Quality Laboratory  
Main University Road, Near RWSR Reservoir, Gullistan-e-Johar, Block-1 Karachi.  
Tel: 372-0551899, Email: wqlab@pcwr.gov.pk

**WATER QUALITY TEST REPORT**

Sl. No.	Water Quality Parameter	Reference Method	Parameter Units	Result
1	pH	Standard Method	Unitless	7.5
2	Color	Standard Method	Unitless	10
3	Turbidity	Standard Method	NTU	1.5
4	Alkalinity (as CaCO <sub>3</sub> )	APHA	mg/L	120
5	Hardness (as CaCO <sub>3</sub> )	APHA	mg/L	120
6	Calcium (mg/L)	APHA	mg/L	80
7	Magnesium (mg/L)	APHA	mg/L	40
8	Total Solids (TSS)	APHA	mg/L	10
9	Chloride (mg/L)	APHA	mg/L	10
10	Sulfate (mg/L)	APHA	mg/L	10
11	Fluoride (mg/L)	APHA	mg/L	10
12	Iron (mg/L)	APHA	mg/L	10
13	Copper (mg/L)	APHA	mg/L	10
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167	Urea Nitrogen (mg/L)	APHA	mg/L	10
168	Calcium (mg/L)	APHA	mg/L	10
169	Magnesium (mg/L)	APHA	mg/L	10
170	Sulfate (mg/L)	APHA	mg/L	10
171	Chloride (mg/L)	APHA	mg/L	10
172	Fluoride (mg/L)	APHA	mg/L	10
173	Iron (mg/L)	APHA	mg/L	10
174	Copper (mg/L)	APHA	mg/L	10
175	Lead (mg/L)	APHA	mg/L	10
176	Cadmium (mg/L)	APHA	mg/L	10
177	Chromium (mg/L)	APHA	mg/L	10
178	Barium (mg/L)	APHA	mg/L	10
179	Strontium (mg/L)	APHA	mg/L	10
180	Selenium (mg/L)	APHA	mg/L	10
181	Vanadium (mg/L)	APHA	mg/L	10
182	Antimony (mg/L)	APHA	mg/L	10
183	Thallium (mg/L)	APHA	mg/L	10
184	Chlorine (mg/L)	APHA	mg/L	10
185	Fluorine (mg/L)	APHA	mg/L	10
186	Phosphorus (mg/L)	APHA	mg/L	10
187	Nitrogen (mg/L)	APHA	mg/L	10
188	Ammonia (mg/L)	APHA	mg/L	10
189	Nitrate (mg/L)	APHA	mg/L	10
190	Urea Nitrogen (mg/L)	APHA	mg/L	10
191	Calcium (mg/L)	APHA	mg/L	10
192	Magnesium (mg/L)	APHA	mg/L	10
193	Sulfate (mg/L)	APHA	mg/L	10
194	Chloride (mg/L)	APHA	mg/L	10
195	Fluoride (mg/L)	APHA	mg/L	10
196	Iron (mg/L)	APHA	mg/L	10
197	Copper (mg/L)	APHA	mg/L	10
198	Lead (mg/L)	APHA	mg/L	10
199	Cadmium (mg/L)	APHA	mg/L	10
200	Chromium (mg/L)	APHA	mg/L	10
201	Barium (mg/L)	APHA	mg/L	10
202	Strontium (mg/L)	APHA	mg/L	10
203	Selenium (mg/L)	APHA	mg/L	10
204	Vanadium (mg/L)	APHA	mg/L	10
205	Antimony (mg/L)	APHA	mg/L	10
206	Thallium (mg/L)	APHA	mg/L	10
207	Chlorine (mg/L)	APHA	mg/L	10
208	Fluorine (mg/L)	APHA	mg/L	10
209	Phosphorus (mg/L)	APHA	mg/L	10
210	Nitrogen (mg/L)	APHA	mg/L	10
211	Ammonia (mg/L)	APHA	mg/L	10
212	Nitrate (mg/L)	APHA	mg/L	10
213	Urea Nitrogen (mg/L)	APHA	mg/L	10
214	Calcium (mg/L)	APHA	mg/L	10
215	Magnesium (mg/L)	APHA	mg/L	10
216	Sulfate (mg/L)	APHA	mg/L	10
217	Chloride (mg/L)	APHA	mg/L	10
218	Fluoride (mg/L)	APHA	mg/L	10
219	Iron (mg/L)	APHA	mg/L	10
220	Copper (mg/L)	APHA	mg/L	10
221	Lead (mg/L)	APHA	mg/L	10
222	Cadmium (			



**Water For Life Program of HHRD has improved access to clean drinking water and hygiene provisions to more than 952,000 people in 2016: You can become part of this Noble Task, and Earn the Immense Blessings from Allah SWT, as HHRD endeavors to reach out to almost Half a Million people in 2017...**





**HELPING HAND**  
FOR RELIEF AND DEVELOPMENT



2017



*Refinement and Effectiveness*



Countries	Number of Projects	Beneficiaries	Funds Needed
Pakistan	250	153,400	\$1,171,000
Afghanistan	20	8,000	\$70,000
Kenya	09	10,000	\$45,000
Somalia	10	11,000	\$50,000
Tanzania	16	17,000	\$80,000
Uganda	05	6,000	\$25,000
Total	310	205,400	\$1,441,000

**Helping Hand For Relief & Development**

**WATER FOR LIFE &**

**WATER AND SANITATION HYGIENE PROGRAMS**

**HOW YOU CAN PARTICIPATE...**

**VISIT** OUR **WEBSITE**  
**www.hhrd.org**  
**Newsletter Signup**

**Web-Link to Donate for Water Projects:**  
**<https://hhrd.org/donate?proid=20>**

**CONNECT:**





# Helping Hand For Relief & Development MATCHING GIFT PROGRAM

## DOUBLE your Support...

- Your corporate employer may match your donation.
- With the Matching Gift Program, your donation can be at the maximum doubled.
- Currently 200+ companies match their employees donations with HHRD, and your if not in our system can get registered.



**You can either mail to 21199 Hilltop Street, Southfield, MI 48033, USA, a Check or Money Order in the name of “Helping Hand For Relief & Development”, or donate using credit card or bank information at specific web-link on HHRD.Org website:**

**<https://www.hhrd.org/water>**

**On-Line in the Comments Section, or when sending the Check / Money-Order, write a note on a piece of paper mentioning which project you want to sponsor (see the next slide), in whose name is the project being done, so as to prepare the proper marble plaque, and mention in the note that the In-Charge of HHRD USA WFL & WASH be informed about your donation: Please call 1.832.275.0786 for more information on the exact location and projects availability...**

<b>WATER PROJECT TYPES AND COUNTRIES</b>	<b>PRICE</b>
<b>AFRICA: Shallow Well With Affrediv Pump (Somalia / Kenya / Uganda / Tanzania)</b>	<b>\$5,000</b>
<b>AFGHANISTAN: Shallow Well With Affrediv Pump</b>	<b>\$3,500</b>
<b>PAKISTAN: Shallow Well With Affrediv Pump</b>	<b>\$1,500</b>
<b>PAKISTAN: Dug Well Project</b>	<b>\$2,500</b>
<b>PAKISTAN: Submersible Pump with Water Storage Tank</b>	<b>\$3,000</b>
<b>PAKISTAN: Water Gravity Scheme (In Hilly Areas)</b>	<b>\$4,500</b>
<b>PAKISTAN: Water Filtration Plant</b>	<b>\$28,500</b>



FOR MORE INFORMATION AND  
FAQs ABOUT WFL, GO TO:  
[WWW.HHRD.ORG/WATER](http://WWW.HHRD.ORG/WATER)

جزاك الله خيرا  
*Jazak Allahu Khair*

