

The Messenger of Allah (SAW) was asked, "Which Charity is Best?"  
He Replied, "(Providing) Water" (Sunan Ibn Majah 3684)

# WASH PROGRAM



الخدمت فاؤنڈیشن پاکستان  
ALKHIDMAT FOUNDATION PAKISTAN

# SITUATION

Water is a priceless gift of nature and an essential ingredient of our lives. According to the World Health Organization (WHO) standards, only 15% of Pakistan's population has access to safe drinking water. Additionally, owing to water pollution four out of five diseases are waterborne diseases.



# ALKHIDMAT WASH PROGRAM

Alkhidmat besides working on an awareness campaign on the vulnerabilities of contaminated water and the importance of clean water is running WASH projects. From the installation of water filtration plants in metropolitan cities, of Sindh and Punjab provinces, construction of hand pumps in villages, submersible pumps and tanks in Tharparkar Sindh, digging wells in deserts and remote areas of Balochistan, Gravity Flow Water Scheme in Azad Kashmir and Khyber Pakhtunkhwa to solar-powered projects in Balochistan are some of the key characteristics of Alkhidmat WASH Program.





**PKR**  
**120,000**  
**EXECUTION TIMELINE**  
**03 MONTHS**

## COMMUNITY HAND PUMP

The Afridev Pump is a conventional lever action handpump. It is designed for heavy-duty use, serving communities of up to 300 persons. The Afridev Pump is fully corrosion resistant, easy to install and has excellent potential for community-based maintenance. The configuration includes an “open top” cylinder: the piston can be removed from the cylinder without dismantling the rising main. The foot valve is retractable with a fishing tool.

This pump is also known as the Deep-well piston handpump. Community hand pumps are ideal for villages and households in which surface sources are common, so only a basic pump suffices for communities trying to meet their water requirements. Suction hand pumps are economical, easy to install and maintain. Maintenance is done at the village level without the need for specialist parts. The pumps are made from cast iron.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Swabi, Mardan, Malakand, Kohat, Laki Marwat, Khyber, Dir Lower, Bajur & North Waziristan.

**SINDH:** Tando Muhammad Khan, Mirpur Khas, Sanghar, Dadu, Tharparkar & Umerkot.

**SOUTH PUNJAB:** Bahawalnagar, Rahim Yar Khan, Multan, Vehari, Lodhran, Muzaffargarh & Khanewal.

**CENTRAL PUNJAB:** Sahiwal, Kasur, Sheikhupura, Chinot, Wazirabad, Nankana, Tandilawala & Jhang.

**BALUCHISTAN:** Jaffarabad, Naseerabad, Sohbat Pur, Harnai, Hub & Bolan.

**GILGIT BALTISTAN:** Gilgit, Ghizer & Astore .

**AZAD JAMMU & KASHMIR:** Bhimber, Kotli & Rawalkot.

**KARACHI:** Gadap, Shumali & Malir Korangi.



PKR  
**220,000**  
 EXECUTION TIMELINE  
**04 MONTHS**

## WATER WELL

It is a traditional source of water in rural areas of Pakistan. Earth is excavated deep to fetch water. Digging is done through various techniques including drilling, blasting etc. Cemented rings are put in open wells for long life and sustainability. Water motors and hand pulleys are used for pulling the water up, down from the wells.

## PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Dir Upper, Dir Lower, Battagram, Bajur, Mohmand, Malakand & Chitral.

**BALUCHISTAN:** Lasbela, Harnai, Quetta, Nushki & Zhob.

**GILGIT BALTISTAN:** Gilgit, Ghizer & Astore.

**AZAD JAMMU & KASHMIR:** Poonch & Sudhnoti.



PKR

**220,000**

EXECUTION TIMELINE

**03 MONTHS**

## SUBMERSIBLE WATER PUMP WITH WATER STORAGE TANK

A submersible water pump operates beneath the earth's surface. Submersible Water Pump pushes water to the surface. Most submersible pumps are long cylinders that are about 3 to 5 inches' diameter and 2 to 4 feet long. Submersible Water Pumps have a hermetically sealed motor that is close-coupled to the body of the water pump. Having a hermetically sealed motor prevents the water from getting inside the pump's motor and causing a short circuit. Other components of a submersible water pump are the cable, which is connected to the motor and a pipe that transports the water to the surface. Water is then stored in water storage tanks constructed nearby Submersible water pump tube well. Submersible Water Pump projects are best suitable to run systems for water pumping in remote areas or where electricity has frequent outage.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** DI Khan, Lakki Marwat, Bajaur, Mohmand, Dir Lower, Dir Upper, Malakand, Karak, Peshawar, Khyber, Tank & Kohat.

**SINDH:** Mirpur Khas, Sanghar, Dadu, Tharparkar & Umerkot.

**SOUTH PUNJAB:** Multan, Vehari, Lodhran, Khanewal, Rahim Yar Khan, Muzaffargarh & D.G Khan.

**CENTRAL PUNJAB:** Sahiwal, Kasur, Narowal, Shekhupura, Tandilawala, Chinot, Toba Tek Singh, Sailkot & Nankana.

**BALUCHISTAN:** Quetta, Lasbela, Zhob, Loralai, Harnai, Mastung, Nushki & Washuk.

**AZAD JAMMU & KASHMIR:** Sudhnoti, Jehlam Valley & Dhirkot.



## SOLAR SUBMERSIBLE WATER PUMP WITH WATER STORAGE TANK

PKR  
**800,000**  
EXECUTION TIMELINE  
**04 MONTHS**

Water pumping is generally dependent on conventional electricity. Solar pumping systems are environment friendly and require low maintenance with no fuel cost. Keeping in view the shortage of electricity in Urban, rural and remote areas in many parts of Pakistan, Solar power pumping is one of the most promising applications using solar energy. The technology is similar to conventional water pumping system i.e. electrical submersible water pumping except that the power source is solar energy. Solar Submersible water pumping technique is gaining importance in recent years due to non-availability of electricity. The flow rate of pumped water is dependent on incident solar radiation and size of PV array. A properly designed PV system results in significant long-term cost savings as compared to conventional pumping systems. In addition, tanks can be used for water storage in place of requirement.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Malakand, Bajur, Mohmand, Dir Lower, Karak, DI Khan, Lakki, Marwat & Bannu.

**SINDH:** Tharparkar & Umarmkot.

**SOUTH PUNJAB:** Bahawalnagar, Bahawalpur & Rahim Yar Khan.

**CENTRAL PUNJAB:** Sahiwal, Kasur, Gujranwala, Chinot, Nankana & Jhang.

**BALOCHISTAN:** Quetta, Lasbela, Zhob, Loralai, Harnai, Mastung, Nushki & Washuk.

**KARACHI:** Gadap Malir.



PKR  
**500,000**  
EXECUTION TIMELINE  
**04 MONTHS**

## GRAVITY FLOW SCHEME

The distribution of water is always troublesome in hilly and remote areas. To remedy the situation a reservoir of water is created mechanically and stored at a place where it could be easily disseminated to the required population. The scheme also involves the development of new water resources so that demand could be met along seamless provision lines.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Battagram, Swat, Dir Upper, Chitral, Buner & Dir lower.

**GILGIT BALTISTAN:** Gilgit, Astore, Ghizer & Diamer.

**AZAD JAMMU & KASHMIR:** Muzaffarabad, Dirkot, Bagh Jhulam, Valley Nuleem, Valley Poonch, Sudhnoti & Hawali



**PKR**  
**2,500,000**  
**EXECUTION TIMELINE**  
**06 MONTHS**

## WATER FILTRATION PLANT (RO)

Water purification is the process of removing undesirable chemicals, biological contaminants, suspended solids and gases from contaminated water. The goal is to produce water fit for drinking purpose. Water purification plants are the source of providing pure, safe, and healthy drinking water to people. Water filtration plants make use of “Reverse Osmosis processes for water purification Reverse Osmosis (RO) process is used on those areas where underground water condition is not very good i.e. Water is Saline.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Tank, Mardan, Swabi, Kohat & Bannu.

**SOUTH PUNJAB:** Bahawalnagar, Rahim Yar Khan, Multan, Vehari, Lodhran, Muzaffargarh & Khanewal.

**CENTRAL PUNJAB:** Sahiwal, Kasur, Narowal, Gujranwala, Sheikhupura, Tandilawala, Chinot, Toba Tek Singh, Wazirabad, Sailkot, Nankana & Jhang.

**BALUCHISTAN:** Gwadar, Quetta & Jaffarabad.

**AZAD JAMMU & KASHMIR:** Mazuffarbad, Rawalkot.

**KARACHI:** All Over Karachi.



PKR  
**40,000**  
 EXECUTION TIMELINE  
**03 MONTHS**

## SMALL HAND PUMP

The Small Handpump is a conventional lever action handpump. It is designed for serving communities of up to 200 persons. These handpumps are fully corrosion resistant, easy to install and has excellent potential for community-based maintenance.

### PROJECT FEASIBILITY

**KHYBER PAKHTUNKHWA:** Mardan, Swabi, Charsadda, Bannu & Nowshera

**SINDH:** Tando Muhammad Khan, Thatta, Mirpur Khas, Sanghar, Dadu, Jamshoro, Khairpur, Larkana, Naushahro Feroze & Hyderabad

**SOUTH PUNJAB:** Rajanpur, Rahim Yar Khan & Muzaffargarh.

**BALUCHISTAN:** Jaffarabad, Naseerabad & Sohbat Pur.



PKR  
**20,000**  
 EXECUTION TIMELINE  
**02 MONTHS**

## MAINTENANCE OF WASH PROJECT

Operation and maintenance refers to all of the activities needed to continuous running of Community Water Project, except for the construction of new facilities. The overall aim of operation and maintenance of Alkhidmat WASH Program is to ensure continuous efficiency, effectiveness and sustainability of community Water Projects I.e. Community Handpumps, Water Well and other water Supply System.



## PROJECT FEASIBILITY

- KHYBER PAKHTUNKHWA REGION ▪ SINDH REGION
- PUNJAB REGION ▪ BALOCHISTAN REGION
- GILGIT BALTISTAN REGION ▪ AZAD JAMMU & KASHMIR REGION



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**0800-44448** **0300-0776016** [www.alkhidmat.org](http://www.alkhidmat.org) [Info@alkhidmat.org](mailto:Info@alkhidmat.org)

Alkhidmat Complex, 3km Khayaban-e-Jinnah, Lahore, Punjab, Pakistan.