

**Background:**

Due to climate change, Sindh's underground and fresh water sources are being contaminated with every passing day. Because of this safe drinking water is a challenge for the people of province. Due to contaminated water, people of Sindh are prone to various diseases. FRDP Pakistan is planning to install the Hand pumps with pre water quality testing and post water test according to WHO standard save the lives. We have so far installed more than 2000 Hand pumps in different areas of Sindh Pakistan with the support of the Donors.

**Challenge:**

District Tharparkar spread over 22,000 square kilometers, is a chronically poor area with an estimated population of 1.2 million. Of these, 95 % live in around 2,000 villages. Water shortage is a major problem of the area. There are normally Dug Wells / Open surface water schemes at the villages from where people fetch the water through rope and bucket, which is not only dangerous in terms of health, because water is contaminated due to rope and bucket going inside well with dust. Also, time taking because mostly people fetch water through donkeys or five women to fetch just 10 liters bucket form the well.

Other than Tharparkar people also facing water challenges because due to poverty most people not afford to Install the water pumps at their household and mostly women is the responsible for water and they go near by pump to take water for their household, there were many harassment cases reported and a lot of women killed in the name of honor.

**Solution:**

Embarking upon this emergent need of Drinking water, Fast Rural Development Program FRDP proposing the Deep-water wells for the District Tharparkar area, these deep-water wells will cover 20-30 families and around 200 people and animals to provide the safe drinking water center to those household.

We propose the household pumps other than District Tharparkar which will cover around 5-10 families around 50 people and animals to have access the safe drinking water.

## Reporting Mechanism

When you donate, please share your name or your loved once which you want to see in the plaque, We will share you the 5 steps of your donated pump. Please see the below steps:

### 1. Site Selection:



### 2. Boring



### 3. Construction



### 4. Plaque Installation



5. People Fetching water



**Budget:**

**Household Water well:**

| <b>House Handpump Cost details</b> | <b>PKR</b>    | <b>USD \$</b> |
|------------------------------------|---------------|---------------|
| Construction Material, Plaque etc  | 5,890         | 36.81         |
| Machine related cost               | 7,950         | 49.69         |
| Boring Cost                        | 3,900         | 24.38         |
| Labor Cost                         | 2,325         | 14.53         |
| Operations cost                    | 4,000         | 25            |
| <b>Total Cost</b>                  | <b>24,065</b> | <b>150</b>    |

**Deep Water Well Pump:**

| <b>Deep Handpump Cost details</b>  | <b>PKR</b>    | <b>USD \$</b> |
|------------------------------------|---------------|---------------|
| Construction Material , Plaque etc | 10,015        | 62.59         |
| Machine related cost               | 48,830        | 305.2         |
| Boring Cost                        | 14,400        | 90            |
| Labor Cost                         | 6,850         | 42.81         |
| <b>Total Cost</b>                  | <b>80,095</b> | <b>501</b>    |