

Project: Solar Water Pumps for 2 Villages in Tharparkar

Providing access to un-interrupted supply of water (solar based) to the communities and cattle

Human Development Foundation – Pakistan

HDF Pakistan is a non-profit organization working to fight multidimensional poverty. Driven by the love of people, the mission of HDF is to empower communities and individuals with the tools and resources needed to achieve and sustain a better way of life. HDF believes everyone deserves to be treated with respect and dignity, and be given equal opportunities to succeed in life. It reaches out to more than 2.4 million people in over 2700 villages across the Pakistan. (read more about us at: www.hdfpk.com)

Summary of Project Activities

- Formation of Village Development Organizations in village 2 villages of district Tharparkar
- ToP signing with community groups
- Formation of Water Users Committees in villages
- Installation of 4 Solar powered submersible water pumps
- Construction of 4 water tanks
- Installation of 4000 feet of water supply lead line.
- Water Quality Tests
- Installation of 08 Solar Street Lights in the villages
- Distribution of 80 Solar Hand Lights in the villages
- Awareness raising sessions with the community on health and hygiene and gender sensitisation
- Formation of Operation and Maintenance Committees in villages
- Selection of the operator for running solar pumps in all three village
- Introduced a clause in terms of Partnership with the community that parents will send all those children to school who used to fetch water from dug wells.
- Conducted awareness-raising workshops on the importance of education with the community.
- Ensured female representation in the Water User Committee
- Conducted health and hygiene sessions with female

Project Cost:

Total cost of installation of one solar powered water pump, inclusive of a solar powered water pump, Water Tank, reservoir, lead line etc. is US \$12,000. Two solar water pumps shall be installed in two villages, hence the cost shall be as follows:

$\$12,000$ (cost per solar water pump) x 2 (water pumps/village) x 2 (villages) = $\$48,000/-$

For Solar Water Pump: Based on need/situation analysis, venders/firms are called for bidding and the vendor is selected following the bidding cost, experience and portfolio of the company.

Previous Contribution:

- Accessibility of water was one of the priority needs of community as identified during process of need identification carried out by HDF. Water discharge from solar operated water pump has started and about 153 HHs (1032 persons comprising 226 male adults, 282 female adults, 238 boys and 286 girls) have started getting water. 810 animals are also watered from facility. Life has changed for the residents. For the women of this area who normally spent an average of 3 hour every time they went to pullout water from dug wells, the solar pump is blessing. Before starting the implementation of solar water pump local support organization in form of Village Development Organization (VDO) was created for effective running and managing the community affairs and the project. VDO has been involved in the process of planning and implementation work right from day one. For the safety and proper care of this water pump project, Village Development Organization has taken the responsibility.
- Underground water is dragged out from depth of more than 150 feet and water is stored in water tank and people take water through taps. In village Katho Bheel sweet water is available in the village (pumped out and stored in tank) but in Katho Sama sweet water is available at the distance of 2000 feet therefore through lead line water delivery is connected with water tank.
- In village Katho Bheel there was no arrangement of home and street lights and therefore installed 6 solar operated street lights and provided 40 solar hand lights.

Following objectives were achieved:

- Provided accessibility of water to 1032 persons and 810 animals by using solar energy
- Promoted participatory development approach by engaging community to increase the access of the people to safe drinking water through installation of solar water pump.
- Improved health and hygiene of the people by providing drinking water and raising awareness among them
- Reduced absenteeism and drop-out among school going children expected through provision of drinking water at doorstep.
- Empowered women by providing safe drinking water through alternative energy

Pictorial View of Project Activities:

Social Mobilization:





Installation of Submersible Pump





Solar Panels:



Construction of Water Tank:



Installation Solar Operated Street Lights



Before and After View:

Before



After



Children cheering up for a photograph


