Project Progress Report

Project Synopsis

Project Title	Safe Drinking Water Project
Project Location	Gujo Union Council, Tehsil & District Thatta, Sindh, Pakistan
Project total Budget	Rs. 2.5 Million
Project Components	Social Mobilization, Safe Drinking Water, Health Hygiene Training for Women
Project Duration	3 Months – 2017
Project Funded By	HBL Foundation
Project Implemented By	Indus Earth Trust
Reporting Period	April– June 2017
Reporting By	Aijaz Ali – Chief Operating Officer, Indus Earth Trust, Karachi, Sindh.
Reporting Date	28th August, 2017

Project Targets / Achievements / Future Plans (April – June, 2017)

S. No	Name of Activity	No of Target	Physical Progress %		Monitoring Input
			P	Actual	
A. Social Mobilization					
A.1	Baseline & PSC Survey	5 Villages	100%	100%	Baseline and Poverty Score Card Survey is completed in April, 2017
A.2	CO Formation	5 Community Organizations	100%	100%	As mentioned in baseline survey results, there were 34 villages. Men Community organizations were formed in all villages, however women community organizations will be formed in the month of April and May, 2017
A.3	Community Meetings	5 Villages	100%	100%	Community Meeting with women groups, men groups, community organizations, focal group discussions with local stakeholders have been conducted time to time
B. Training for Women " Prevention from the Water Borne Diseases.					
B.1	Health & Hygiene Training	5 Sessions	100%	100%	Training Sessions have been completed in all 5 villages with women groups.
C. Safe Drinking Water – Solar Water Pumps					
C.1	Boring, Installation of Solar Water Pumps, Construction of Water Tanks, Water Tabs and platforms for Solar Panels	5 Villages	100%	80%	This activity slightly delay because of EID Holidays and heavy rains in the area.

Introduction

Indus Earth Trust is launching a Safe Drinking Water through Solar Water Pumps project in Gujo Union Council, Thatta district with the financial support of ***HBL Foundation*** has provided assistance amounting to Rs. 2.5 million.

Project aims to provision of safe drinking water to coastal communities 5 villages in Gujo Union Council, Thatta with access to water through technological innovations – ''Solar Water Pumps. Project focusing on women water related issues, unfortunately women are responsible to collect the water from long distances for their families' cooking and washing purposes.

The project will benefit 5 villages, 161 households with population of 715, and targets SDG 3 (Better health and Wellbeing) and SDG 6 (Clean water and Sanitation).

The project will focus on water provision through 5 solar water pumps and extensive training of women in '' Prevention from Water Borne Diseases''. Social Mobilization process has been done through the Baseline survey, Poverty Scorecard survey, Formation of COs in each targeted village has been taken place. Health Hygiene training especially to the village women is an integral part of the project. It envisages lessening the burden of water carrying by women, by making it more accessible to them.

Baseline Survey

Village Profile

Village Name	No. Households	Population
Peer Muhammad Mirbahar - 1	24	108
Peer Muhammad Mirbahar - 2	42	171
Sajan Mirbahar	33	168
Bhaley Dino Palari	27	126
Juryio Gondro	35	142
Total	**161**	**715**

There are 5 Villages considered as beneficiary villages. The average household size comprised with 4.5 persons in each. Male & female ratio is almost equal, Male 49% and Female with the total population 715 persons.

Demographic of Households

Description	No.	Percentage (%)
Total Villages	5	100%
Total Households	162	
Total Population	715	
Male	350	49%
Female	365	51%
Average Size of H.Hs	4.5	

Poverty Survey of the Villages (PSC)

IET implements its various projects using the Poverty scorecard to determine the project beneficiaries. The Poverty scorecard is administered through a survey is used to collect household data. The resulting information is then used to create a database and develop projects keeping the needs and aspirations of the beneficiaries foremost. Through this process those identified as Ultra poor and vulnerable poor are assisted to benefit from IET interventions which are based on the needs and requirements of the community, households and individuals. Following this process enables IET to collaborate with communityinstitutions, community members and individuals to build a clear and holistic picture of the needs for its targeted interventions and ensure the needs of all stakeholders are taken into consideration.

S. No.	Name of Village	Ultra Poor H.Hs	Vulnerable Poor H.Hs	Poor H.Hs	Non-Poor H.Hs	Total
1	Peer Muhammad Mirbahar - 1	10	5	9	0	24
2	Peer Muhammad Mirbahar - 2	12	6	18	6	42
3	Sajan Mirbahar	16	7	8	2	33
4	Bhaley Dino Palari	10	7	8	2	27
5	Juryio Gandro	10	6	16	3	35
	Total	**58**	**31**	**59**	**13**	**161**

Major Problems of Residents

1. Safe Drinking Water 100%
2. Poverty 90%
3. Health 86%
4. Education 85%
5. Electricity 82%

Social Mobilization

CO Formation

Indus Earth Trust social mobilization team formed community organizations. This interest is based on the idea that community involvement in the planning and execution of project interventions leads to more effective and equitable development. In practice, community-based interventions are frequently channeled through Community Organizations (COs). COs often emerge and play an important role in providing public goods and in resolving collective action problems when formal institutions are deficient. For this reason, they are particularly important in poor communities where the government is unable or unwilling to provide much needed social services, especially in coastal communities of district Thatta**.**

Community Meetings

Community meeting is a best tool to interact with local people to involve in decision making process and suggestions regarding the execution of project interventions. IET hold community meetings in each and every beneficiary village. Community meeting is proper platform to discuss the project components and project expected benefits and role of communities. The long-term benefits of water replenishment project can include improvement in community health especially Women and children, community empowerment, heightened economic status, environmental restoration and enhancement of the quality of life in the Kohistan region through health hygiene training and provision of water. Community meetings are helpful to get information and links for techniques, guidance and tools for development of an effective community involvement program.

Health & Hygiene Training

IET has strongly believed in capacity building of the local communities for e.g. local people must be equipped with Skills, knowledge about their health challenges. IET design a comprehensive training program for women ''Prevention from the Water Borne Diseases'' is designed for the coastal communities focusing on women.

The training aims to enhance the knowledge, skill and capabilities of the of local women in preventions from the water borne diseases and how can the reduce rate of water borne diseases, preventive measures, local method of water purification, safe store of the water. It provides the participants an opportunity to build their capacities to improve their, health especially children. Six training sessions will benefit the women of 5 villages.

Drinking Water Supply – Solar Water Pumps

Identified needy village and which were facing the shortage of safe drinking water, women fetch the water from long distance for their families. 5 bore holes with 10'' inches dia, approximately 35 to 45 ft. deep have been completed.

After completion of boring work, constructed the 15ft high block's towers and RCC water tanks constructed on the top of all 5 towers. There are total 5 Solar Water pumps have been installed. All solar water pumps are functional; however, two solar water pumps are in testing.

Technological Innovations – Solar Water Pumps

Technology Based Water project, like solar water pump plays a pivotal role in development. In keeping with IET's participatory approach to development process the program identifies, prioritizes and implements projects with prior consultation of communities through Community Organizations (CO). This community ownership is integral to sustained development, especially technology involvement. The communities are also responsible for maintenance of operations.

According to Solar water pump specification, it can be produce the water is maximum 50 liters/ Minute and 15 liters/minute is minimum. This is flexible and adjust the requirement the village population and it depends on underground water volume.

Operational & Maintenance (Sustainability of the Project)

Equipment	Specifications
Solar Panels	DUPONT, 145W,145V Thin Film
Pump	Submersible Pump,1HP, 3-Ph, ISO Certified
VFD	PORTON, 1.5KW, ISO Certified
Solar Frame	Mounting Structure with cleaning kit
Wiring	DC Cabling, Fast Cables & Lugs
Others	PVC Fittings, Piping, Flushing of bores
Boring	Only Cleaning and Flushing of Bores
Civil Works	All civil work including water tank, controller room, pads etc
Transportation	Complete transportation for panels, pumps, inverter, etc
Installation	Complete Installation with DC Cabling

Community organization of the village will be responsible to maintain and care of the project and keep functional the project at least 10 years, because the life of the Solar equipment's is sufficient as below

- Solar Panel Life is 5 Years & Warranty is 2 Years
- Solar Water Pump Life is 05 Years & Warranty is 1 Year
- VFD Drive 1 Year Warranty
- Bricks tower is strong enough for the 20 years

Operation & Maintenance

After warranty period, if need some maintenance or repairing in case of natural or man-made damage, Community organization has own savings for maintenance & repairing, which is collected from the village members. Rs. 100/ Month. This is regular savings of the villagers for the maintenance of the project equipment's.

Monitoring Visit

Mr. Abid Rafiq Ghazi – CEO HBL Foundation along with Ms. Beena Manzar, Deputy General Manager CSR conducted monitoring visit of ‘’ Safe Drinking water Project’’ on 10th August, 2017. Following two villages were chosen out of five villages for visit

1. Sajan Mir Bahar
2. Bhaley Dino Palari

Sajan Mirbahar

Village Sajan Mirbahar is situated in union council Gujo, Tehsil and District Thatta at the distance of 4 kilometers from Gujo town. There are 33 households with the total population 168. This village is identified through the baseline survey and several meetings with the people of Sajan Mirbahar. HBL Foundation team check project solar water pump, Solar Panels, Water tank also tested water quality. Meeting with villagers and detailed discussion with beneficiary households, views about the project benefits and value addition in their life, villagers said, they prevented from the water borne diseases, Women does not go to out of village for water collection, reduce their labor and time.

Bhaley Dino Palari

Village Bhaley Dino Palari is situated in union council Gujo, Tehsil and District Thatta at the distance of 7 kilometers from Gujo town. There are 27 households with the total population 126. This village is identified through the baseline survey and several meetings with the people of Bhaley Dino. HBL Foundation team check project solar water pump, Solar Panels, Water tank also tested water quality. Meeting with villagers and detailed discussion with beneficiary households, views about the project benefits and value addition in their life, villagers said, they prevented from the water borne diseases, women stated they get benefit from the project, because the totally focused on women. Villagers said, that they use the water of open canal for cooking and drinking purpose, which very dangerous for their life and health especially for children, now they prevented from health hazards.

Project & Visit Pictures