

HYGIENIC HAND PUMP WATER SUPPLY SCHEME IN SKARDU PAKISTAN

Supported by



PROJECT COMPLETION REPORT



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ABOUT THE WATER SUPPLY PROJECT

Water is the foundation of life; however, it is scarce in developing countries like Pakistan.

At present, Pakistan is facing immeasurable social, economical, political and religious problems. The government is keen to tackle mainstream socio-political affairs of the state only, and invests no time and resources to address basic socio-economic needs for people living in rural areas. Some of the staggering issues that need immediate attention include drinking water, girl education and livelihood opportunities. Around 90% of the total population in rural areas lacks access to clean drinking water (source: DAWN June 2011).

Rural villages in district Skardu, and Gilgit-Baltistan are particularly affected by the turmoil prevalent in the region. Villagers in districts spend their entire day searching and hauling for drinking water. Women and girl children are traditionally responsible to do this job. Realizing these problems facing by the grassroots GRACE, Pakistan requested JIPPO Japan, the Non-profit organization based in Shimogyo-ku, Kyoto Japan for collaboration in providing health and hygienic hand pump water to the most disadvantaged families in Kwardu Skardu. GRACE is very thankful for JIPPO and the Donor of this project for supporting us to address drinking water problems for disadvantaged communities in remote rural areas in Pakistan.





PROJECT DESCRIPTION

As mentioned that villages in the least developed northern parts of Pakistan such as in district Skardu Gilgit-Baltistan living in poorest conditions. One of the root causes is none availability of clean water for drinking, washing and bathing etc. Nazimabad and Faizabad villages at the bank of Indus River 17 KMs away from the Skardu town were among those communities facing acute shortage of water related problems. The whole day activity or job of the village women and girls were totally hauling water for the family as they are traditionally responsible for this duty. This tradition and lack of water were barriers in girl education. In addition

the water most of the villagers were using from river or nearby ponds are contaminated and variety of diseases have been affecting health of the community men, women and children.

There was no water supply scheme in the villages especially Nazimabad, 50 families were more suffering comparatively than other villages in the series such as Faizabad and Maqponabad. Therefore, GRACE Association Pakistan requested JIPPO Japan for a Hand Pump Water Supply Scheme for Nazimabad Kwardu aiming at providing potable water to the deprived village communities.

OUR PROJECT PLANNED TO:

1. Provide potable hand pump water to 50 families and reduce burden of water-born-disease on the community;
2. Reduce morbidity and the health expenditures of the villagers;
3. Increase the availability of villagers to work especially for women;
4. Reduce the amount of time young girls spend on fetching water thereby increasing the time they can spend in school;
5. Raise awareness of women on hygienic problems, women rights and empower village women educating them in hygiene skills and improving their health conditions;

These goals have been set to achieve by organizing the villagers and establishing up a village project committee to:

1. Help determine a suitable site for the hand pumps;
2. Provide required land in free for installation of hand pumps;
3. Supply un-skilled labours;
4. Ensure the project is carried out according to its design;
5. Establish a project maintenance committee for sustainability of the project;

ACCOMPLISHMENTS:

GRACE Chief Executive Khadim Hussain and JIPPO Japan Representative Mr. Ikeda on behalf of Mr. Nakamura Hisashi, Executive Director JIPPO Japan signed the project Memorandum of Understanding (MoU) on July 01, 2013 at Islamabad. Soon after the project agreement GRACE started implementation of the project and carried out the following activities in series:



1. ESTABLISHED NAZIMABAD VILLAGE PROJECT IMPLEMENTATION COMMITTEE:

First consultation meeting with Nazimabad villagers organized on July 1, 2013 by GRACE Association staff. 38 male family villagers participated in the meeting. In this meeting the community requested JIPPO Japan and GRACE for more four hand pumps for the communal centres such as Madrasa, Mosque, Girl middle school and Haji Rustam in Ranga area. Keeping in view their needs, GRACE proposed JIPPO for 14 hand pumps within the 1.5 million approved budget by replacing the project reporting cost into four new pumps and a digital camera for reporting. GRACE Pakistan is thankful for approval of both the requests by JIPPO.

1.1. Signed Memorandum of Understanding (MoU)

Signing meeting with the Villagers organized on July 12, 2013. The communities agreed to contribute in the project by providing locally available materials such as sand, gravel and unskilled labour as needed for the installation of 14 hand pumps and construction of the washing platforms. They also agreed to coordinate with the project engineer in selection of suitable and feasible sites for installation of hand pumps. The communities also agreed and declared to provide free land required for the installation of hand pumps and construction of washing plates. They consensually agreed to keep the hand pump sites communal for the future.

1.2. Established Village Project Committee:

GRACE constituted a procurement committee comprised of 4

four members and obtained quotation from reliable suppliers in Skardu for procuring hand pumps, hiring drilling equipments, and other items required for the project. The committee has developed a comparative statement for preparing the budget.

1.3. Designed Project Technical Layout:

A technical engineer has been hired by GRACE Association for survey and selection of the most appropriate sites for installation of 14 hand pumps. The villagers and GRACE staff, with technical assistance of the Engineer selected 14 most feasible and suitable sites employing the local community knowledge about availability and sustainability of underground water. Consensus have been developed in selection of communal sites for hand pumps so that a cluster of families have a hand pump at nearest distance from their homes. The project engineer then designed a layout for the project.

1.4. Organized Project Inception Ceremony:

The inception ceremony organized by the villagers on August 22, 2013. Luckily Morio Hyroyuki from Japan reached Skardu on the same day. So Mr. Morio and Allama Sheikh Shabbir Turabi, a local religious scholar were the chief guests and they together laid the foundation of the project by drilling the first hand pump in front of the Girl School/Madrasa. Sub (R) Muhammad Hussain, one of the active community volunteer in the project village, and Khadim Hussain, Chief Executive Officer, GRACE Pakistan also participated and briefed the participants about the project.

2. MEETING WITH WOMEN

After the inception ceremony with the male participants, village female members gathered in the community hall for introductory meeting with Morio San. They showed their satisfaction in the overall project so far and assured their full participation and cooperation in the project events. The women were eager to share their health-related and economic issues, and immediately requested for a sewing and embroidery vocational centre in Nazimabad. Morio San and Khadim Hussain responded them that they will continue their support if the first project is successful.

3. 14 HAND PUMPS INSTALLED

GRACE contracted with a local experienced contractor for provision and installation of hand pumps as per project design. The villagers provided required local materials and unskilled labor while skilled labor and nonlocal materials have been provided by the project.

The proposed underground drilling and water availability estimated 40 feet, however on the ground the actual underground water availability were minimum 16 feet deep and maximum 35 feet. After completion of installation and construction of washing plates, JIPPO emphasized for digging more underground but local experienced people in installation of hand pumps said that the usual water table is 10-15 feet in many villages. Majority of Nazimabad villagers recommended not dismantling all the

work done because there was no difference if all work done started again except wastage of resources. Few people in the village however insisted to dismantle all the work done and drilling of the hand pumps so that they may have skilled la-

bor and later they may use the drinking water source for irrigation purposes.



bor and later they may use the drinking water source for irrigation purposes.

There was no big change in the project design except few minor changes in the hand pump sites. Majority of the communities cooperated and provided their free services and materials for the project.

4. Health & Hygiene Awareness

Training Workshops Organized:

Health and Hygiene Education: Mr. Morio Hyroyuki, a psychological care expert and health and hygiene training specialist from JIPPO Japan visited Nazimabad village to help GRACE train local villagers in teaching hygienic skills and improve living conditions of the grassroots communities. Morio san scheduled his

era to GRACE staff on behalf of JIPPO as GRACE requested to Ms Takagi. Ms Sehrish Bashir from GRACE received the camera. GRACE chief executive, Khadim Hussain and other staff members thanked JIPPO for contributing in our endeavours to improving living conditions of grassroots communities.

Khadim Hussain Chief Executive GRACE/ Nazimabad Project Coordinator coordinated things to be done for Morio San whenever needed or requested.

Morio San started working on the hygiene awareness soon after his arrival to Skardu. He kept visiting the project village from the day one and continued his committed and sincere efforts to train the villagers. He was to accommodate at home in or nearest to the project village but due to security reasons in Pakistan he had to stay at a Hotel and travel from Skardu city to Nazimabad on daily basis.

From August 26th to 29th Morio San and GRACE staff members, Sehrish Bashir and Qasim San visited families to observe their health and hygiene conditions. The home surveys were completed on August 30th 2013 and compiled by Morio San at GRACE program office, Skardu.





A small workshop was organized for 13 women and 28 girls on how to manage domestic wastes on September 2, 2013. The village women requested for provision of dustbins for waste management, sponge and lemon max soap for washing kitchen items. Morio san discussed this matter with JIPPO and GRACE. Keeping in view the needs and upon the recommendation of Morio San, GRACE decided and purchased a small hygiene kit for each family.

During first week of September 2013 Morio san and Khadim Hussain developed training manuals, banners and item lists for providing hygiene kits for all 50 families including the schools and mosque. Although these items were not included in the budget approved by JIPPO, keeping needs in view and upon the recommendation of Morio San, GRACE decided to adjust the expenditures of these items in the project budget without demanding additional funds from JIPPO.

During the first and 2nd weeks of September, training workshops were organized for Health and Hygiene Implementers (HHIs) Two ladies have been selected by the villagers for the project for a compensation of Rs.2500/- per month.. A hygiene check-list form has been created and handed over to the HHIs. They will visit the families and fill forms of each family once in two weeks. The first report is due from them by October 15th, 2013.

Exclusive day long workshops on health and hygiene habits for male and female folks have been organized on 8th and 9th September 2013. In the women workshop 120 ladies and 20 children attended the event. At the end 50 Hygiene Kits were distributed by the family representative. A special dustbin was also donated to Madrasa/School.

At last day of Morio san stay in Skardu a special training workshops for men, women and children have been organized. 33 men and 10 boys participated in workshop. The training agendas included debriefing on women's workshop conducted the previous day, planning for solid waste management, hand pumps sustainability, future relations with JIPPO and GRACE. The villagers have developed a slogan "Saaf Sutra and Khoo-soorat Nazimabad" as a goal for them to keep their village neat and clean. Morio San has assured further projects from Japan and other countries if the villagers demonstrate their slogan successfully.



MONITORING AND EVALUATION:

GRACE Project coordinators and other staff regularly visited Nazimabad village during the project implementation. Mr. Muhammad Qasim was assigned the responsibility to supervise the hand pump installation, and construction of washing plates, while Ms Sehrish Bashir was made responsible to assist Morio san and help in organizing training sessions especially for women and school children. Ms Sehrish was also made responsible to help train the Village Health and Hygiene Implementer Ladies in home visits and hygiene checks. Both Sehrish and Qasim san have been reporting to Khadim Hussain Chief Executive/Project Coordinator. The project coordinator maintained communication with JIPPO and project implementation staff and the community on need basis. The overall project implementation, supervision and monitoring process was good. The frequent visits and keen interest in maintaining quality with track of work progress got community satisfactions, which is the main outcome of our project. GRACE Project coordinator shared project progress on need basis and a detail interim report was submitted in September 2013.



Water Quality Tests:

The underground water quality test in the project village was conducted before inception of the project. The water was taken for this test from an existing old hand pump. The result was good and the lab declared water quality fit for drinking purposes as per WHO guidelines and standards.

After installation of the hand pumps the quality of water was re-tested in September 2013. The laboratory declared water chemically fit for drinking purposes as per the recommended guidelines/standard of the world health organization (WHO) however, the bacteriological result of the water sample showed health risk of fecal contamination. Therefore after few weeks regularly filtration of water from all 14 hand pumps the water quality of all hand pumps retested. The retest results were fit for drinking purposes. GRACE shared the result with JIPPO Japan and both the organizations were satisfied with the latest results. The water quality test budget was increased more than expected due to testing for many times. However it was good in favor of the community health.



Villagers Health and Hygiene Habits Improved:

GRACE is continuing the follow up to check the hygiene habits and health conditions of the project villagers. A hygiene check form has been developed and filling them on quarterly basis by the two Health & Hygiene Implementers (HHIs) from each family. The hygiene check reports show that the villagers hygiene habits have been improved after the project. They have started washing hands regularly before eating, daily teeth brushing, and taking a bath once a week. Previously they were taking a bath once a month.

Use of dustbins for garbage and wiping out/burning them safely and using as fertilizer is no becoming a tradition which is very good for their health. Before the project they were throwing their domestic wastes/garbage in the streets and or nearby places without any proper systems. The villagers are also discussing to dump the waste and recycling all possible things for further uses.



SUSTAINABILITY MECHANISM:

Project Maintenance Committee: The villagers have constituted the Water Supply Project Maintenance Committee (PMC) comprising 8 male and 2 female following members.

The PMC members have started tackling their responsibilities and as per the HHIs report recently two of the hand pumps required a little repairing which they repaired through involvement of beneficiary families. The PMC also has extended their services for welfare and development of the village in addition to the water supply scheme maintenance. It is expected that the Nazimabad community is able to adapt durable use of the hand pumps and improve their hygiene conditions availing the clean water supply facility and by using their new hygiene skills learned from the experts from JIPPO and GRACE.

FEEDBACKS AND LESSONS LEARNED

1. Though changing behavior is a long term and challenging job but sincerity and commitment works if address the peoples genuine needs. It is obvious in Nazimabad water supply project as they needed improved health but lacked clean water and skills. Now the water and new skills have started improving their lives.
2. The proposed and actual plan and budget always do not match always, therefore organizations needed to keep a scope in both implementation plan, a little flexibility in figures and budget.
3. Community demands never end. However when we enter into a new village, then one can become aware of root causes behind poverty, ill health and low literacy. The main reason behind poor living conditions in Nazimabad village is lack of earning opportunities for men especially women. The women folks are hanged with family cooking, cleaning and reproduction services. They have no job and no opportunity to grow and thrive.
4. Lift irrigation scheme may boost up the economy of Nazimabad village.
5. Muntazarabad village women and children are happier than men because they had the burden to hauling water for all the family. Now they have the burden with reduced workloads.
6. Experience reveal that hand pumps for a cluster of families is challenging. Single family hand pump is better for better management.

PROJECT BENEFICIARIES INFORMATION:

Descriptions of Beneficiaries	# male	# female	Details
Hand pump water supply	253	264	517 men, women and children in Nazimabad
Health & hygiene workshops	230	205	Maximum number of men and women participated in the training workshops
Hygiene kits	253	264	A hygiene kits given to each family in the village
GRACE staff	4	3	GRACE staff members worked on the project as coordinator, accountant, supervisor etc and gained experienced.
General beneficiaries	500	550	In addition to Nazimabad villagers children coming from other villages in school and Madrasa Nazimabad and other villagers would benefit from the water supply. During religious celebrations more than 5000 people benefit from the water supply scheme.

	# planned	# actual	Details
# of workshops / events	4	5	Hygiene awareness, hygiene behavior, exclusive for men and women and hygiene implementers
# of progress reports	2	2	Besides email reports, interim and completion reports submitted
# of hygiene kits distributed	0	50	The need arized during training workshops and provided a hygiene kit containing towels, brushes, dustbins and soaps etc one kit to each family.
# of hand pumps installed	14	14	
# of washing plates construction	14	14	
# of hygiene implementers hired	2	2	

PROJECT BUDGET:

The total estimated budget of the project was PKR 25, 41,800.00 contributing 59% of the cost by JIPPO Japan and the rest to be arranged by GRACE Association and the community in kind/services and cash. The actual cost of the project was PKR 25,00,974.41 and GRACE/Community contributed PKR 980598.24 (39%) and the rest PKR 15,14,345.00 (61%) has been donated by JIPPO Japan. Although, it is a considerable amount of money, different stakeholders have been contributed according to their own resources.





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