4. Controlling water wastage of irrigation system by improving the water management system in a flood area – Charsadda, Pakistan

- Local partner: Shama Social Village Development Organization (#263)
  Shama has been making efforts since 1991 to advance the socio-economic development of the poorest residents, to eradicate poverty and to maintain Sustainable Development Goals (SDGs) in rural areas in the District of Charsadda Kyber Pukhtoon Khwa (KPK). It is a JWF Fund 2020 recipient.
- Project budget: $3,145 (JWF Fund: $1,500, implementing organization: $377, beneficiaries: $1,268)
- Project expenditure: $3.195 (JWF Fund: $1,500, implementing organization: $377, beneficiaries: $1,318, 101.6% of the budget)
- Number of beneficiaries: 229 (74 men, 90 women, 65 children)
- Background:
  The 2022 flooding in Pakistan caused major damage to Charsadda District. More than 40 percent of the people remain deprived of the basic necessities of life. Shama carried out surveys among the locals, resulting in this project to stop the loss of 40 percent of the water through holes in the crude mud irrigation channels. By strengthening these channels with a water management system to control the water wastage, it is possible to supply water to local small-scale landowners/farmers with 4 to 20 *kanals* (1 *kanal* = 0.051ha) of land which barely supports them and their families.

【Before Implementation】

Unlined water course

Water wastage on both sides of a muddy, unlined channel.

Wastage of water in muddy channels.

- Details of the project:
  - Construction of concrete channels 1,200ft (366m) in length around small-scale farmland
  - Two meetings and linkage development between target farmers and the local irrigation department
  - Formation of a Project Maintenance Committee for maintenance and repairs of the facilities
  - Establishment of a dedicated fund for maintenance and repairs

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【During Implementation】

Awareness session

Transporting concrete irrigation channels

Storage of concrete irrigation channels

Constructing concrete irrigation channels

【After Implementation】

Irrigation of fields, with 100% delivery to the crops

Preventing wastage with water flowing in a concrete channel

Mr. Faquir Gul, 60 years old

I used to have to work very hard to irrigate my fields. The water couldn't reach the crops despite my efforts. At the same time, leakage from the canals occurred, decreasing the yield of my crops. Since the project, I haven't had any more problems with irrigation and expect to increase my crop yield in a very short time, with easily accessible water through concrete channels that prevent wastage.

Ms. Tahira Nazia, 41 years old

All of the local people are very grateful to the Japan Water Forum for solving the irrigation water problem in our landowning community by agreeing to build the concrete channel. Preventing water wastage has stabilized our irrigation system, increased crop production, and significantly reducing poverty.

Mr. Ramdad, 52 years old

More than 40 percent of the people living in the areas affected by the flooding of 2010 and 2022 in Pakistan, these poor and the humble people, are still deprived of basic facilities. They need clean drinking water and proper sanitation, Therefore such grassroots projects are necessary, so that they can benefit from the fund.