

Restoring Local Agriculture through Small Schemes

A case Study of Irrigation Scheme

Organization: PRDP

Project: PAKAR

Area: Central Kurram

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Agriculture based CPI Schemes

The irrigation channels schemes were mainly implemented in 4 of the 8 targeted villages in Central Kurram Agency. These schemes were mainly concerned to the rehabilitation and lining/cementing of conventional irrigational channels in the agricultural fields. The irrigation channels scheme largely benefited small farmers in terms of increased crops yield, effective water utility, and increasing their income level. Below are



the observations of a village community regarding the impact of irrigation channel on their livelihood.

Case Study: Livelihood Enhancement of a Small Farmer in Village Jamal Mela

Mohammada Jan is a middle age small farmer and member of PRDP's trained Protection committee, living in Jamal Mela village of Alisherzai Kurram Agency. His main livelihood source is farming on his 1 acre agriculture land. Before the scheme, Jan used to rely upon rain water to irrigate his land as the main source of area's water(Spring) couldn't be up lifted and fill down in the river ahead of the village. He says,

"Construction of a small dam to store and uplift water level so that it becomes available for an all-time arid land was a major turmoil in areas Agriculture development. As per our commitment with PRDP through a written resolution, we have excavated the channel by our own resources. With PRDP's help, construction of line/concrete irrigation channel contributed a lot in improved crops productivity and economic wellbeing of majority farming community of the village. Earlier, there was total wastage of this water due to irregular land level of the cultivated area.

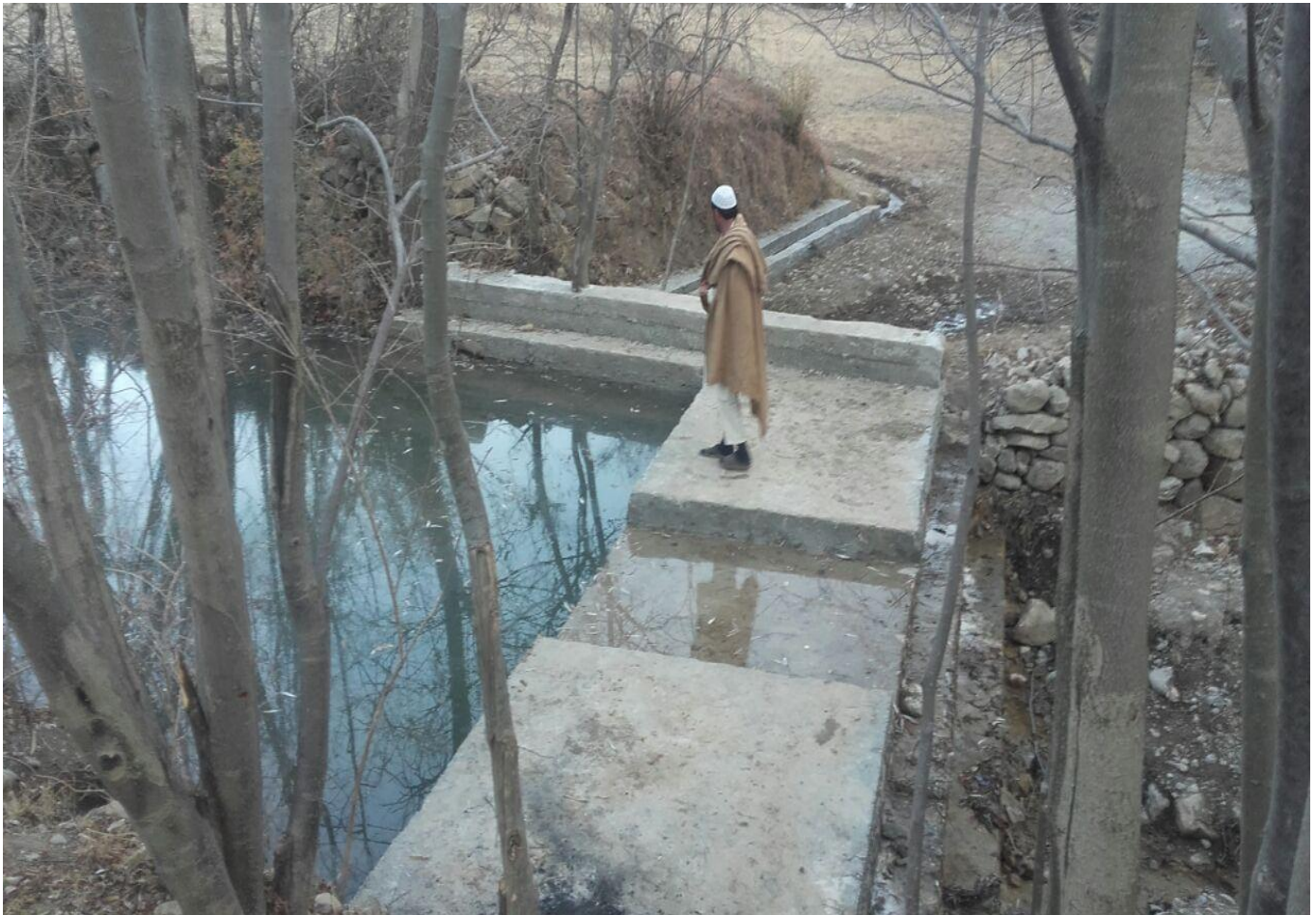
Similarly, there were more conflicts among local farmers on the selection of site for small dam and distribution of water. Thanks Again to PRDP team for mobilizing our community to resolve issues hurdling in fulfilling this dire need. Local community is highly satisfied with the outcomes of the irrigation channel scheme".

The productivity of crop was also on low side and he was over burden with the input costs of the crops. He also confronted with number of issues with his neighboring farmers over the participatory approach required by humanitarian organization to intervene in the area. Now after the lining of irrigation channel passing through his land, he witnessed many positive changes such as reduction in the

wastage of water, less cost on cultivating his farming land, Proper time require irrigating his land,



improved crops yield, and increased income which led towards improving the livelihood conditions of his family.



Below is the impact Table of irrigation channel scheme in village Jamal Mela which indicates that prolonged issues of local famers related to Agriculture are largely resolved, improvement observed in behaviors of the people and their living standard. Small farmers have started to earn more due to increased crops yield.

| S. No | Observed Indicators | Findings |
|-------|----------------------------------|--|
| 1 | Priority Need Identification | Rightly identified priority need of irrigational channel with a small dam scheme in intervened village |
| 2 | Level of Community Participation | 75% high level of community participation whereas 25% medium to low level of community participation |
| 3 | Maintenance Level | 95% schemes is maintained whereas 5% needs maintenance. |
| 4 | Design Efficiency | 85% scheme was observed design efficient as technical problem observed in 15% scheme such as use of non- responsive materials in the lining of channels which was due to the unavailability of desired Crush and Sand. |
| 5 | Effectiveness | 95% schemes is found effective in terms of meeting the irrigation requirements of targeted population |
| 6 | Sustainability | This scheme were found fully sustainable in long term perspective |
| 7 | Social Impacts | High Social Impacts in terms of food security and Livelihood of the local farmers' community through a proper irrigation of crops. |
| 8 | Economic Impacts | High economic impacts for almost 200 Farmers in terms of increased crops yield, saving through better consumption of water in fields, and increased income level of farmers. |
| 9 | Built Impacts | Improved built environment of irrigation channels and agricultural fields which are round about 100 acare in the program village after the completion of scheme. |