



IWRM Pilot Project Qila Haji Khan District Pishin

Balochistan Partnerships for Sustainable Development



Background:-

Balochistan Partnership for Sustainable Development (BPSD) a six-year project, funded by Embassy of Kingdom of Netherlands (EKN) and started in 2007, is being executed by IUCN in the selected districts of Balochistan with overall goal of sustained ecological and human well-being in Balochistan. The Programme has been designed to achieve three main objectives; a) To promote sound environmental governance at the district level through visioning, planning and implementation b) To facilitate integrated water, coastal and marine resource management and c) To enhance capacity of relevant stakeholders to support sustainable development in Balochistan.

The programme, in order to achieve each objective effectively, is required to carry out task and activities through partnership with the governments' line departments, civil society organizations and most of all the communities. Wherein, the partners in order to ensure sustainability of the programme are expected to fulfill their specific roles in information collection, policy formulation, development of management plans, implementing programme initiatives and provision of necessary administrative support for taking over the completed interventions.

Amid other objectives the program is also focused on conservation and sustainable development/ management of key natural resources, such as watersheds, rangelands and fresh waters on which livelihood of the rural population is based, with a view to achieve results delineated for reaching the objective of integrated water, coastal and marine resource management.

Integrated Water Resource Management – IWRM, a key component of BPSD, is a systematic process for sustainable development of the communities through allocation and monitoring of water resource use in the context of social, economic and environmental objectives. In this way, IUCN had designed and implemented Water Conservation and Watershed Management pilot, at Qilla Haji Khan, Pishin, in 2010 and hence this completion report.

Introduction:-

The community of village Qila Haji Khan through their representative (Union council Nazim Mr. Naseebullah Khan) approached the BPSD District Coordinator Pishin requesting IUCN for support in addressing their water related issued on community participatory basis.

Manager BPSD, along-with the District Coordinator and PMU technical team visited the village on January 29, 2010. The team met with the community members in a general gathering and found them real needy and willing to contribute for water resource management and development projects in the area.



In their general gathering community unanimously indicated following small projects to be initiated as soon as possible to avoid further losses of the small farmers for improvement of their agriculture as well as to ensure the drinking water for the community. They assured their active participation in the projects.

Identification of interventions and Community Mobilization:

District Coordinator conducted follow up visits to the village and met the community members to discuss the coordination mechanism for implementation of projects. He discussed in detail the IUCN standard rules and procedures of participatory projects and recommended the project and declared socially feasible to initiate the physical interventions of the projects. The District Coordinator after initial dialogue with the community carried out a reconnaissance of the area and made the profile of the village as under:-



VILLAGE PROFILE

GENERAL INFORMATION

Name of the Village	Qila Haji Khan
Union council	Behram Khan
Tehsil	Barshore
District	Pishin
Coordinates:	30°58'59.02 N and 67° 25'21 63E
Distance from Quetta	121 km
Distance from Pishin	72 km
Distance from matelled road.	12 km
Households	55
Population	1075

MAIN SOURCES OF INCOME

Agriculture	55%,
Livestock	30%,
Government Jobs	10%
Small business	5%

AGRICULTURE

Major crops	Wheat and Barley
Fruit	Apple, Apricot, peach and cherry
Vegetables	Potato, chilly, tomato and onion

LIVESTOCK

Cattle, Sheep, Goats, Poultry

SOCIO ECONOMIC SERVICES

Market	05 small General Stores
Hotel	Nil
Tea Shops	Two shops
Recreational places	Nil
Power	Electricity
Road Communication	Katcha Roads
Tele-communication	V-wireless Phone

EDUCATION

Primary schools one each for boys and girls with very low standards are available. For middle level classes very few Parents afford to send their children to Pishin (district headquarters).

HEALTH

No Basic health services for men and women is available in the village. People use to go to Pishin Hospital for their health issues.

VETERINARY

No services are available

WATER SUPPLY

One PHE bore hole of 500 feet depth with 2 inch dia pipe networking

The District Coordinator then mobilized the community and consequently the Community organized itself into “**Qila Haji Khan Conservation Society**” to undertake the project activities and other social and economic development and conservation activities in the area.

Followed by visits of District Coordinator and village profiling; the BPSD technical Team conducted transect walk of the area and used several Participatory Rural Appraisal (PRA) tools to assess the needs and interventions identified by the community and found that completion of above projects will benefit the community in improving their economy and living standard.



The team also analyzed the linkages between interventions and project objectives such as check structures, infiltration process, re-habilitation of channels, and construction of reservoir; and determined that the interventions are in line with the project objectives and activities.

In this way the BPSD Team and the community organization in their final meeting unanimously decided to carry out the following activities in order to address their issues of Water resource management. The agreement was recorded in the form of an MOU signed by all the stakeholders.

1. Water Storage Reservoir
2. Lining of channel
3. Karez rehabilitation and improvement through Infiltration Galleries
4. Check Dam structures for water shed improvement
5. Establishment of Nursery in Green Tunnel.

Programme Manager IUCN Balochistan approved the recommendations of District Coordinator and the community for initiation of the intervention identified. Consequent upon approval of the programme management, engineering estimates of the interventions were prepared by IWRM technical team and was approved by the IUCN country office in _____ for a total cost of Rs. **1,709,914/-** with following breakup of cost.

Total Cost of Pilot Project:-	1,709,914/-
BPSD Share:-	1,367,932/-
Community Share:-	341,982/-

Execution of Interventions:-

All the interventions approved by the BPSD and the community were carried out on participatory basis where IUCN provided necessary funds and technical backstopping for construction while the community provided their share in kind of material and labour. A joint account was also opened for maintenance of the project funds and ensuring transparency of transactions. The execution of interventions was started during 20th May 2010 and was completed on 15th December 2010.

The interventions completed under this pilot project are detailed as under:-

1. Construction of Water storage tank.

As per approved design, the water storage tanks of 60'x60'x4.5', was constructed using stones for construction of wall and PCC for construction of bed. The community contributed in the activity by providing 7 labours, 4000 stones, sand and gravel; whereby the IUCN provided funds for procurement of Cement, 14000 stones and mason.



2. Rehabilitation of Irrigation System using PVC Pipe.

The irrigation system of the project area was improved using 3" & 4" dia PVC Pipe. 4000 RFT Pipe was used to cover the entire irrigated area of the community. Besides, 24 manholes were also constructed at points identified by the community for efficient water diversion. BPSD provided funds for procurement of PVC pipe, Stones, mason and cement whereby, the community provided labour, sand and gravel equivalent to their share for execution of the intervention.



3. Improvement of Infiltration gallery

450 feet long infiltration gallery was cleaned first and thereafter 220 ft portion of the gallery was lined with 8" dia slotted PVC pipe. BPSD provided funds for procurement of slotted pipe, skilled and un-skilled labour for cleaning of infiltration gallery and lying of pipe.



4. Construction of Check Structures for ground water recharge.

8 Check structures (10321 cft volume) were constructed upstream of the karez in the main runoff channel for conservation of runoff during wet seasons in order to ensure continued sub-soil water availability for the karez. IUCN provided funds for procurement of stones and skilled labour for construction of check structures whereby, the community provided un-skilled labour for the activity as part of their share.



5. Establishment of Nursery

Among other development initiatives; this pilot project was also aimed at Water Shed Management through increasing vegetation in the catchment areas of watershed. In this way a nursery was established in the project area with the active participation of the community; with a view to increase vegetative cover in the water shed through transplantation of local/ improved varieties of shrubs, fruit trees and local varieties of wild trees; raised in a controlled environment. Under this activity a green tunnel has been constructed and during the coming spring season a nursery of 40 thousand plants would be raised for transplantation in the coming months.



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IUCN PAKISTAN
BALOCHISTAN PROGRAMME OFFICE
Marker Cottage, Zaghooon Road,
Quetta, Pakistan.

www.iucnp.org

