

Feasibility Study on Irrigation Water Resource Development with Delay Action Dam in Balochistan, Pakistan

(Period of study: 15 months from March, 1996 Our assignments: Agriculture, Farmers' Support)

Background of the Study

Pakistan Government enumerated the promotion of water resources development, expansion of irrigation system and maintenance and control by farmers' participation in 8th 5-year plan (1993-1998) for the continuous development of agricultural. The promotion of small-scale irrigation scheme is proposed by water resource development sector program in the plan. In the Balochistan state where water resources are in shortage, especially, the construction of delay action dam and countermeasures to floods were promoted for the small scale pumping irrigation scheme that causes drying up of ground water due to excessive use. Department of Water and Power of Balochistan state had been trying to construct delay action dams but the satisfactory results are not obtained due to some technical difficulties. Therefore, Pakistan government requested Japanese government the technical cooperation on feasibility study to formulate the plan by recognizing the priority of constructing new delay action dam and conservation of the area in North Pakistan where remarkable fall of ground water level are observed.

Outline of the Study

The study was carried out by the team consisted of 10 experts, specialized in irrigation, water control, ground water, rural society, organization, environment and etc. During the first phase, nine priority sites for the construction of delay action dam were selected by formulating the draft plan of maintaining delay action dam through field survey of 13 new dams and evaluation of existing dams. In addition to the field survey and analysis of each experts' field the specific survey and analysis were carried out on geology, soil, water quality, rural society and natural and social environment.

Our Assignments

- Collection and analysis of information and data about both national and local level agricultural sector,
- Survey and analysis of situation about farming and cultivation of target and surrounding areas,
- Survey on present land use through analysis of LANDSAT satellite image,
- Formulation of agriculture, land use and livestock development plans by considering natural, social and economic conditions,
- Survey and formulation of development plan about farmers' supporting system such as agricultural infrastructure, present situation of agricultural extension at target and surrounding areas, and
- Formulation of farmers' supporting plan under farmers' participation at the prior dam area.

