

## ADB SUPPORTED PROJECTS IN THE FORMAL IRRIGATION SECTOR

### A. Emergency Infrastructure Rehabilitation & Reconstruction Project (EIRRP)

1. The objective of EIRRP was to rehabilitate traditional irrigation systems and key irrigation infrastructure while also developing the capacity of Ministry of Energy and Water (MEW). It was the traditional irrigation component of a larger \$150 million infrastructure and reconstruction project and is funded by ADB and the Japan Fund for Poverty Reduction (JFPR). EIRRP was implemented by MEW through consultants.

**Coverage:** Northern Basin sub-basins of Khulm, Balkh, Ab-i-Safid and Shirin Tagab, with emphasis on Balkh River and Jowzjan irrigation systems

**Funding:** \$15 million

**Duration:** Entire project of 10 years (2003-2013); irrigation component completed in 2008

**Project elements:**

- (i) Rehabilitation of irrigation civil works (\$11.1 million);
- (ii) Implementation and support for infrastructure improvement (\$2.9 million) and technical support to MEW; and
- (iii) Enhancement of MEW capacity to implement improved infrastructure (\$1 million).

### B. Balkh Basin Integrated Water Resources Management Project (BBIWRMP)

2. The project aimed at improving water management and associated agricultural productivity to reduce rural poverty of local communities.

**Coverage:** Northern Balkh sub-basin

**Funding:** \$10 million by ADB/JFPR

**Duration:** 3.5 years (2004-2008)

**Project elements:**

- (i) Rehabilitation of irrigation infrastructure (\$5.0 million);
- (ii) Institutional strengthening and development (\$2.66 million); and
- (iii) Capacity development (\$2.34 million).

### C. Western Basins Project (WBP)

3. The WBP is aimed at improving rural livelihoods through the strengthened integrated water resources management, improved irrigation service delivery, enhanced agricultural practices, and increased productivity of irrigated agriculture. The project is funded by ADB, Canadian International Development Agency, and the Abu Dhabi Fund.

**Coverage:** 32 systems in the Hari Rod-Murghab river basin covering a total irrigated area of 52,000 hectares (ha)

**Funding:** \$90 million

**Duration:** 7 years (2007-2014)

**Project elements:**

- (i) Integrated water resource management;
- (ii) Water resources and irrigation development, including civil works and machinery accounting for approximately 50% of the project budget;
- (iii) Agricultural and livelihoods support services; and

(iv) Project management and capacity building.

#### D. Ongoing ADB-supported Projects

##### 1. Water Resources Investment Development Project (WRIDP)

4. **Description:** The project is financed through a multitranche financing facility and a \$3 million grant from the Department for International Development (DFID). The investment program will finance (i) the rehabilitation and upgrading of existing and development of new irrigation and water resources infrastructure, (ii) flood management infrastructure, (iii) institutional strengthening, and (iv) capacity building for key staff throughout the sector.

<b>Executing Agency:</b>	Ministry of Finance (MOF)
<b>Implementing Agencies:</b>	MEW and Ministry of Agriculture, Irrigation and Livestock
<b>Funding:</b>	\$300 million ADB financing and \$3.3 million cofinancing from DFID
<b>Duration:</b>	8 years (2010-2018)

- a. **WRIDP Tranche 1 (\$93 million)** has four components: (i) northern basins development that includes rehabilitation and upgrading of irrigation infrastructure, and development of a river basin agency (RBA) and water users associations (WUAs) for water management; (ii) Nangahar Valley Development Authority (NVDA) improvement that includes irrigation rehabilitation and upgrading, development of WUAs, and a management reform plan for the NVDA; (iii) flood management that includes development of flood protection infrastructure along the Amu Darya River and development of a national flood management program; and (iv) project management and program development that includes preparation of tranches 2 and 3. DFID is contributing \$3 million for the development of a Helmand River Basin Master Plan which will be completed during 2014.
- b. **WRIDP Tranche 2 (\$104 million)** will rehabilitate and improve the Shahrawan and Archi canals of the Lower Kokcha Irrigation Project. Both canals suffer under both scour and sedimentation, and water levels (Sharawan canal) and capacity (Archi canal). The Shahrawan intake, the approach channel, and outflow channel have degraded significantly and are in danger of being washed away. Failure of water delivery would negatively impact around 46,000 ha of crops. The Shahrawan intake headworks will be rehabilitated and upgraded to fully discharge its design flow (60 cubic meter per second [m<sup>3</sup>/s]) in a controlled manner into the Shahrawan canal. The Archi main canal will be rehabilitated and upgraded to its original design capacity of 36m<sup>3</sup>/s (current flow rate is estimated at 30m<sup>3</sup>/s). The project will strengthen water management institutions through creating irrigation and WUAs, and strengthening river basin and sub-basin authorities. To ensure sufficient operation and maintenance, the concept of an irrigation service fee will be introduced in Lower Kokcha Scheme Irrigation Scheme (LKIS), tied to equity and reliability of water supplies and incremental benefits. Tranche 2 is being implemented between 2014 and 2018.

## 2. Western Basins Water Resources Management Project

5. **Description:** The project is supporting infrastructure development, strengthening of institutional frameworks, and capacity development for water resources management and irrigated agriculture in the western basins of Afghanistan (Badghis, Ghowr, and Herat provinces), mainly comprising the Hari Rud River Basin Master Plan, which includes the Herat and the Murghab River Basin. The project has four components: (i) integrated water resources management, (ii) water resources and irrigation development, (iii) agriculture and livelihood services, and (iv) capacity development and project management. Physical works for the project will be completed by the end of 2014.

<b>Executing Agency:</b>	MOF
<b>Implementing Agency:</b>	MEW
<b>Funding:</b>	\$66 million ADB financing and \$8 million cofinancing from Canadian International Development Agency
<b>Duration:</b>	10 years (2006-2016)