



ARMENIA

CONSTRUCTION SUPERVISION OF WORKS UNDER INFRASTRUCTURE ACTIVITY IRRIGATED AGRICULTURE PROJECTS



Client MCA-Armenia Procurement Officer, Yerevan, Republic of Armenia

Financing Millennium Challenge Account-Armenia – MCC Funding

Duration of Services 02/2009 - 11/2011

Cost of Implementation 90 million US\$
 5 687 010 USD (value of services)

Scope of Services

- Detailed work plan
- Review & approval of Final Designs of pumping stations (FIDIC Yellow Book)
- Technical supervision of construction works
- Oversight over the Consultant implementing the construction supervision of tertiary canals
- Presentations & workshops on construction technologies, standards, requirements, quality control

Brief Project Description

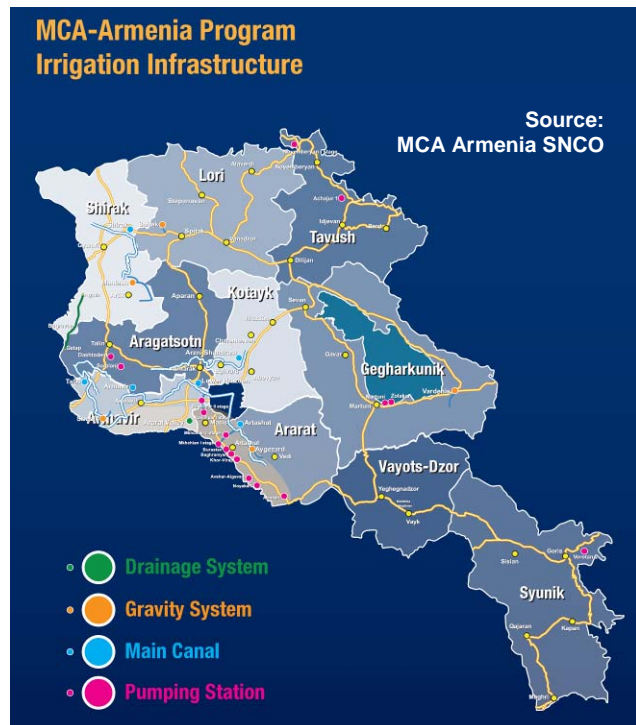
Following the collapse of the Soviet Union, Armenia needed urgent stabilization and reform programs for its economy. The MCC donor organization funded by the U.S. Government identified the key for change in the agriculture sector. The goal was the reduction of rural poverty through the rehabilitation of Armenia's irrigation infrastructure complemented with extensive technical and financial assistance to rural farmers and to the government irrigation entities. In particular investments have been planned for

- (1) improvements of the irrigation infrastructure; and
- (2) improvements of the rural road network.

Project Objectives:

The overall project objectives are

- securing reliable irrigation water; and
- increasing the agricultural productivity.



The Irrigation Infrastructure Project had an impact on 298 communities with about 400,000 beneficiaries and concerns the rehabilitation of infrastructure for the irrigation of about 60,000 ha land.

Project Measures:

The Consultant services comprised the construction supervision (FIDIC Red Book) of following components:

- Rehabilitation of 6 Main Canals I - concrete canal lining 4.3 km and rehabilitation/new construction of 267 hydraulic structures like outlets, cross regulators, bridges;
- Rehabilitation of Arzni-Shamiram, Lower-Hrazdan, Artashat and Shirak Main Canals II – concrete lining and shotcreting of 365 km main, secondary and tertiary canals and rehabilitation/new construction of 18 cross regulators and 80 outlets;
- Rehabilitation of Irrigation Gravity Schemes I: Mantash, Vardenis, Shenik, Aygezard – rehabilitation of flumes and pipe conduits with a total length of 31.6 km and hydraulic structures;
- Rehabilitation of Irrigation Gravity Scheme II: Spitak – new intake Tyrolean type and pipe conduit with a length of 5 km;;
- Rehabilitation of 17 pumping stations – replacement of pumps and motors, valves and fittings, rehabilitation of operation and appurtenance buildings, hydraulic structures and power supply;
- Rehabilitation of Drainage System in the Ararat Valley I – rehabilitation of 301 km main, secondary and tertiary drainage canals and culverts.
- Rehabilitation of Drainage System in the Ararat Valley II – rehabilitation of 156 km main, secondary and tertiary canals, culverts and bridges, and one irrigation pumping station.
- Factory attendance tests
- Organisation of workshops on construction technologies, standards, requirements, quality control

Review of design and construction supervision (FIDIC Yellow Book) of

- Rehabilitation of 17 pumping stations – replacement of pumps, motors, valves and fittings, operation and appurtenance buildings, power supply lines and substations;