



## TAJIKISTAN

### SECOND DUSHANBE WATER SUPPLY PROJECT (DWSP 2)



**Client** Dushanbe Vodokanal

**Financing** World Bank

**Duration of Services** 09/2012 – 06/2017

**Services of Value** 3 522 070 Euro

#### Scope of Services

- Project Management
- Technical Measures
- Accompanying Measures

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## Brief Project Description

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The Dushanbe Water Supply Project (DWSP) was the first donor-funded operation in the urban water sector in Tajikistan. Water supply service at the hands of the Dushanbe Vodokanal State Unitary Enterprise (DVK) had suffered accelerated degradation since independence and through the civil war. It was designed with the Project Development Objective to improve the safety, reliability, efficiency and financial viability of the water supply services in Dushanbe.

The Project Management Consultant supports the DVK in implementation of measures to improve the technical and financial performance of DVK. To this end, the following measures with an investment value of 13.8 million US\$ were implemented:

- Rehabilitation of WTP sand filters, extension of capacity from 120,000 m<sup>3</sup>/d to 170,000 m<sup>3</sup>/d
- Replacement of the deteriorated PS
- Construction of minimum two reservoirs
- Connecting WTP, PS and reservoirs by pipes
- Construction of Re-Chlorination Plants
- Procurement of operation equipment (hydraulic excavator, water quality monitoring, SCADA, water meters, network cleaning)

Further Accompanying Measures are to be implemented to improve DVK's financial and operational performance according to the OPIAP (Operational performance Improvement Action Plan) in order to provide the services in a sustainable manner.

### Project Management:

- Establishment of Steering Committee
- Individual project plans for all sub-projects incl. critical path and risk management
- Stakeholder analysis
- Establishment of PMIS
- Website
- Project administration
- Progress and budget control
- Financial management
- Reporting
- Stakeholder coordination
- Procurement and Tender evaluation



### Technical Measures:

- Review of operational data
- Conceptual design (FIDIC Yellow Book) for WTP, filter system
- Detailed design (FIDIC Red Book) of NAP pumping station and reservoirs
- Tender Dossiers (FIDIC Red and Yellow Book) for works contracts
- Tender dossiers for supply contract for 76,000 domestic water meters
- Prepare tender dossiers for works and equipment incl. GIS and SCADA
- Construction supervision of the works contracts
- Supervision of installation of water meters and construction of house connections
- Preparation of Network Master Plan
- DMA (district metered areas) zoning

### Accompanying Measures

- Institutional assessment incl. SWOT analysis
- Support of DVK in implementation of OPIAP
- Water demand management strategy
- Leak detection and water loss reduction strategy
- Capacity Building in HR management
- Modernization of billing and accounting
- Introduction of IFRS
- Introduction of Performance indicators
- Review and optimization of tariff system
- Hydraulic modeling and establishment of network information system (GIS)
- Awareness and communication strategy
- TA for water quality monitoring