DESIGN OF WATER METERING JUNCTIONS



Country: Republic of Armenia

Client: World Bank, "Water Sector Development And

Improvement Projects Implementation Unit" SE

Duration: October 2002 - January 2003

Terms of Reference

- 1. Specification of places of water metering junctions organized on water pipelines.
- 2. Selection of water metering equipment dimension-types and technical solutions of installation.
- 3. Development of working design for water metering junctions establishment and preparation of 5 tender packages



Brief description of project and services provided

- ✓ During filed visits water supply systems under "Armenian Water and Sewerage" CJSC were investigated in the territory of Armenia.
- ✓ During investigations data on technical indices of the operating water supply systems' technological elements (pipelines, valves, water metering junctions, etc.) were specified and collected.
- ✓ As a result of investigations, the locations of the designed water metering junctions were clarified, their geographical coordinates were determined by means of GPS-12 equipment; geodetic surveys of the areas were carried out.
- ✓ The preliminary design was discussed and agreed with the Client. The indices of the designed 639 water meters, their types, technological solutions of implementation thereof were clarified that made a basis for development of working design and tender documents.
- ✓ By working design 5 construction tender documents were developed, each of them including books of technical specifications, explanatory parts, working drawings, bills of quantities and confidential cost estimates.
- ✓ By drawing part of the working design technological, construction and power supply parts, standard and design solutions were developed.
- ✓ During the working design development AutoCAD drawing and ArcView GIS software were used.



The objective of the activity is.

- 1. Assist in improvement of water supply level, increasing its management and operation efficiency for the Republic's residential areas (out of Yerevan).
- 2. Establish a water quantity measurement system in water supply systems under "Armenian Water and Sewerage" CJSC (from water sources up to residential areas).

