WATER SUPPLY REHABILITATION FOR GNDEVAZ COMMUNITY

Country: Republic of Armenia
Client: Rural Areas Economic Development Programme AAU SI
Duration: May-August 2006

**Terms of Reference**

1. Investigation of the water supply system, study of technical condition of the existing facilities,
2. Development of detailed design,

**Brief description of project and services provided**

Technical condition of the existing water supply system of Gndevaz community was studied; detailed studies of spring intakes, water main and DRRs were carried out. Hydro-geological studies of 3 springs, engineering-geological investigation of spring intakes and water main areas were carried out.

The detailed design plans:
- repair of 3 spring intakes,
- construction of 200mm 17km long gravity water main,
- design of distribution node on the water main for water intake with irrigation purpose (up to the chlorination station),
- construction of pressure regulation and vent chambers on the water main,
- repair of two 150m³ capacity DRRs,
- Construction of chlorination station within the DRRs’ area with dry dosing vacuum chlorinators.

Based on the carried out works, design and cost-estimation documents were prepared, working drawings, technical specifications, Bill of Quantities, cost-estimates were developed.

During the design development the water demands for drinking-household and farmland irrigation, environmental protection issues were taken into account.

**Project objective**

Rehabilitation of water supply to Gndevaz Community in Vayots Dzor marz, providing population with continuous and reliable drinking and irrigation water supply.