OVERVIEW

Karam Abad dam is located in West Azerbaijan Province, 20km from Poldasht. It is an earthfill dam with clay core, 1991m in length and 43m high. The dam provides Potable & Industry. It impounds a 53,700,000 m³ reservoir.

Karam Abad Dam was built to create a reservoir dam to store the excess water from the reservoir of Aras Dam at a rate of 5.30 cubic meters per second. Using the Ganbar Kundi pumping station in the vicinity of the reservoir of the Aras Dam, the result is the development of agricultural land.

MONITORING

Monitoring of the dam construction integrity and long-term safety is carried out by recording measurements in the following key areas:

- **Main dam body**
  - Pore water pressures in the core
  - Effective stress in the core
  - Inclination in the core & shell
  - Settlement in the core & shell
  - Groundwater levels

- **Foundation**
  - Pore water pressures in the rock
  - Groundwater levels

- **Dam main drain**
  - Seepage

PRODUCTS USED

- **HD VW piezometers**
  - Measurement of pore water pressure
- **VW Total Pressure Cells**
  - For measuring total earth pressures
- **Standpipe piezometers**
- **Remote Smart Mux**
- **Smart Mux Interface**
- **Portable MEMS Inclinometer**
- **V-notch weirs**
  - Measurement of seepage flows
- **Staff gauges**
  - For measuring water level in dam reservoir
- **GEO-XM**
  - Magentic system for measuring ground settlement
- **VW Readout VWR01**
  - Measures all types of vw instruments
- **GB PLUS Data Logger**
- **Geoaxiom software**
- **3D Mechanical Crack Meter**
- **Weather Station**