OVERVIEW
Bidvaz Esfarayen Dam is located in the North East of Khorasan Shomali Province, 20km from Esfarayen city. It is an earthfill dam with clay core, 104m in length and 80m high. The dam provides potable & industry. It impounds a 52,900,000 m³ reservoir.

A new cut-off wall is under construction upstream of the dam.

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
VW piezometers
Measurement of pore water pressure.

VW Total Pressure Cells
For measuring total earth pressures.

Standpipe piezometers
Simple measurement of groundwater levels.

Remote Smart Mux
Smart Mux Interface

V-notch weirs
Measurement of seepage flows.

Staff gauges
Water level in dam reservoir.

Geo-XM
Magentic system for measuring ground settlement.

Reed Switch Probe
For use with GEO-XM system.

VW Readout VWR01
Measures all types of vw instruments.

G8 PLUS Data Logger
Geoaxiom software