Golgohar Tailing Dam, Iran

**PROJECT SUMMARY**

Name: Golgohar Tailing Dam, Iran  
Year: 2013-2015  
Client: Golgohar Mining & Industrial Co  
Main Contractor: AB & KHAK  
Instrumentation: LARZEH SAKHT SAVALAN  
Consultant: MEHR AB POYESH

**OVERVIEW**

Golgohar Dam is located 53Km South West of Sirjan in the Kerman Province in Iran. Commissioned in 2011, Golgohar Dam is an earthfill dam, with a clay core. It is 795m in length and 25m high. The dam has seven sections needing instrumentation.

The dam was constructed for environmental protection in order to reserve tailing materials resulting from the iron mine concentration process.

**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**

- **HDVW piezometers**  
  Measurement of pore water pressure.
- **Standpipe piezometers**  
  Simple measurement of groundwater levels.
- **Portable MEMS Inclinometer**
- **V-notch weirs**  
  Measurement of seepage flows.
- **Staff gauges**  
  Water level in dam reservoir.
- **Geo-XM**  
  Magnetic system for measuring ground settlement.
- **Reed Switch Probe**  
  For use with GEO-XM system.
- **Terminal Box**
- **VW Readout VWR01**  
  Measures all types of vw instruments.
- **CR1000 Data Logger**
- **Soil Extensometer**