



Balarud Dam, Iran



PROJECT SUMMARY

Name: Balarud Dam, Iran

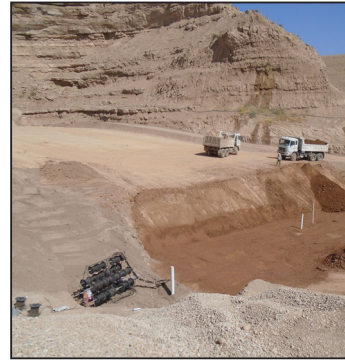
Year: 2015 - on going

Client: Khuzestan Water & Power Authority

Main Contractor: OMRAN MARON

Instrumentation: LARZEH SAKHT SAVALAN

Consultant: DEZAB



OVERVIEW

Balarud dam is located in Khozestan Province, 27km north of Andimeshk. It is an earthfill dam with a central clay core, 1070m in length and 77.5m high. It provides water for irrigation, potable water, industry and hydro power. It impounds a 131,000,000 m³ reservoir and its plant capacity is 4Mw.

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

3D Mechanical Crack Meter

Remote Smart Mux

Smart Mux Interface

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.

VW Readout VWR01

Measures all types of vw instruments.

G8 PLUS Data Logger

Geoaxiom software

Weather Station