

Masjed-e-Soleiman Dam Instrumentation

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SYNOPSIS. The 187m high Masjed-e-Soleiman clay core rockfill dam forms part of a 1,000MW hydropower scheme. The dam was constructed between 1996 and 2001 and impounding commenced in late 2000. The instrumentation installed at the dam was designed to meet international guidelines for the primary purposes of monitoring construction, impounding and long term performance. The instrumentation comprises foundation pore pressure meters, earth pressure cells, extensimeters, piezometers and survey monuments. In the event a significant proportion of the buried instrumentation failed during construction. A study was undertaken to review the performance of the instrumentation, evaluate available monitoring data and develop the criteria for control of the impounding.