PROJECT SUMMARY

Name: Sarcheshmeh Tailings Storage Dam, Iran
Year: 2011
Client: National Iranian Copper Industries Co.
Instrumentation: LARZEH SAKHT SAVALAN
Consultant: ATC Co. & MEWE Co

OVERVIEW

Sarcheshmeh Tailings dam is located in the Sarcheshmeh. The dam was constructed to reserve 1,000,000,000 tons of tailings materials resulting from the copper mine concentration process. It is an earth fill dam with a clay core, 1500 m length and 75 m high, and reservoir volume is 123,000,000 m³.

MONITORING

Automatic monitoring of seepage was identified as being a requirement to ensure the long-term integrity of the dam and allow water quality measurements to be made.

Changes in seepage volumes and water quality could be quickly identified and checked with changes in reservoir level and filling activities.

PRODUCTS USED

V-notch weir
Provides a method of measuring volumetric. Since the geometry of the top of the weir is known and all water flows over the weir, the depth of water behind the weir can be converted to a rate of flow.

VW Weir Monitor
Automatically measures the height of water behind the V-notch weir.