

## **BIDVAZ ESFARAYEN DAM – I.R. IRAN**

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Project Name	<b>Bidvaz Esfarayen Dam</b>
Purpose of the project	<b>Agriculture &amp; Irrigation</b>
Project location	<b>Khorasan- Esfarayen</b>
Client	<b>Khorasan Regional Water Authority</b>
Contractor	<b>Gostaresh Nosazi Sanayee Iran CO.</b>
Dam Type	<b>Earth Fill Dam With Clay Core</b>
Height above foundation	<b>60 (m)</b>
Crest level (above sea level)	<b>1534</b>
Crest length	<b>113 (m)</b>
End of construction	<b>June 2005</b>

### **GENERAL VIEWS OF THE DAM DURING CONSTRUCTION**







## INSTRUMENTS INSTALLED

<b>Instruments</b>	
V.W. Piezometers	No. 56 (Sisgeo models PK45S)
V.W. Earth pressure cells	No. 40 (Sisgeo model L143D)
Inclinometer-settlement casings	No5 for total meter (Sisgeo S141 flush coupled ABS casing)
Magnet rings	No. 163
Inclinometer probe with portable readout unit	No. 1 (Sisgeo model S242SV30)
Reservoir water level pressure transducers	No. 1 (Sisgeo model P252R)
V-notch weir for seepage monitoring	No. 1 (Sisgeo model QV00LS)
Staff gauges	20 meters
ADK-10 Automatic Data Acquisition System	No. 1. cabinet (Sisgeo model ADK10CAB)
Casagrande piezometers	No. 21(Sisgeo model P101)
Bench marks	No. 45
Accelerographs	No. 5 (Kinematics, GeoSIG, Syscom)
Instrument status	On June 2005 100 % of the instruments were working
	<b>Courtesy of Khorasan Regional Water Authority</b>



*Installation of earth pressure cell*



*Installation of earth pressure cells in two direction and pore pressure transducer*



*Positioning of the instrument's cables*



*Vertical inclinometer measurements*



*Vertical inclinometer measurements*



*Trench for installation of embankment extensometers*



*Installation of embankment extensometers*



*Switch measuring box for manual readings*