

## BIDVAZ ESFARAYEN DAM – I.R. IRAN

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

## GENERAL VIEWS OF THE DAM DURING CONSTRUCTION











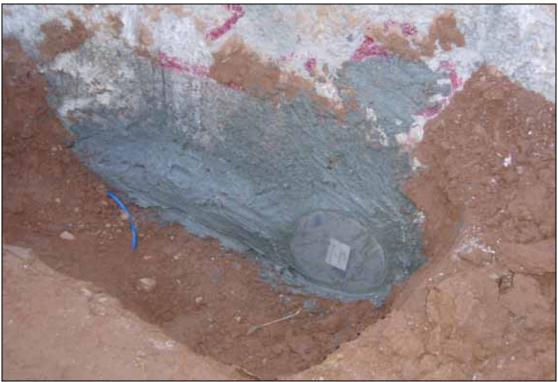




## INSTRUMENTS INSTALLED

| Instruments             |  |
|-------------------------|--|
| TATA D                  | N. 56 (G) 1.1 DY(450)                            |
|                         | No. 56 (Sisgeo models PK45S)                     |
|                         | No. 40 (Sisgeo model L143D)                      |
| Inclinometer-settlement |  |
|                         | (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        | No. 1. cabinet (Sisgeo model ADK10CAB)           |
| Data Acquisition System | -  |
| Casagrande piezometers  | No. 21(Sisgeo model P101)                        |
| Bench marks             |  |
| Accelerographs          | No. 5 (Kinemetrics, GeoSIG, Syscom)              |
| Instrument status       | •  |
|                         | Courtesy of Khorasan Regional Water<br>Authority |





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