

Medium Head Plants

Bulam Weir and HEPP TURKEY



Bulam Weir, located on Bulam River, is in Adiyaman province, in the South East Anatolian Region of Turkey. It is licensed by the EMRA (Energy Management and Regulation Authority). The project started its operations in August 2010.

Bulam Weir has 1423m long tunnel having 3.0m diameter which ends with a penstock of 1.3m diameter. There are two generating units with horizontal axis Francis type turbines in the powerhouse. The installed capacity of Bulam Weir turbines is 3.5 MW per each unit.

Client:

MEM En. El. Ür. San. ve Tic. AŞ

Powerhouse:

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|-----------------------------------|--------------------------------|
| • no.s/type of turbines: | 2/Francis, horizontal axis |
| • rated capacity/rated discharge: | 7.03MW / 5.2 m ³ /s |
| • rotation / frequency: | 1000 rpm / 50 Hz. |
| • rated gross head: | 156.0 m |
| • firm energy production: | 12.155 GWh/a |
| • second energy production: | 23.585 GWh/a |
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Execution:

2007-2010

Services:

- Review, appraisal and recommendations for feasibility study
- Preparation of final design reports and drawings
- Preparation of technical specifications and tender documents
- Programming site investigations and evaluation of the works
- Preparation of detailed construction drawings for project structures
- Consultancy services to the owner during site construction works
- Assisting owner in evaluation of E&M bid documents.
- Verification of detailed design drawings of hydro-mechanical and electro-mechanical equipment.
- Monitoring acceptance tests and supervision of commissioning of equipment and plant