

HPP MEDJUVRŠJE



Contract title: **REPAIR AND RECONSTRUCTION OF ADDITIONAL POWER UNIT SUPPORTS IN HPP “MEDJUVRŠJE”**

Location/River: West Morava River  
SERBIA

Employer: P.D. “Drinsko-Limske HE”  
Bajina Basta  
HE „Elektromorava“ Cacak  
SERBIA

Commencement date: 2013.

Completion date: 2014.

Investment cost: 2,500,000 EUR

Hidrological data

Average discharge 49.50 m<sup>3</sup>/s

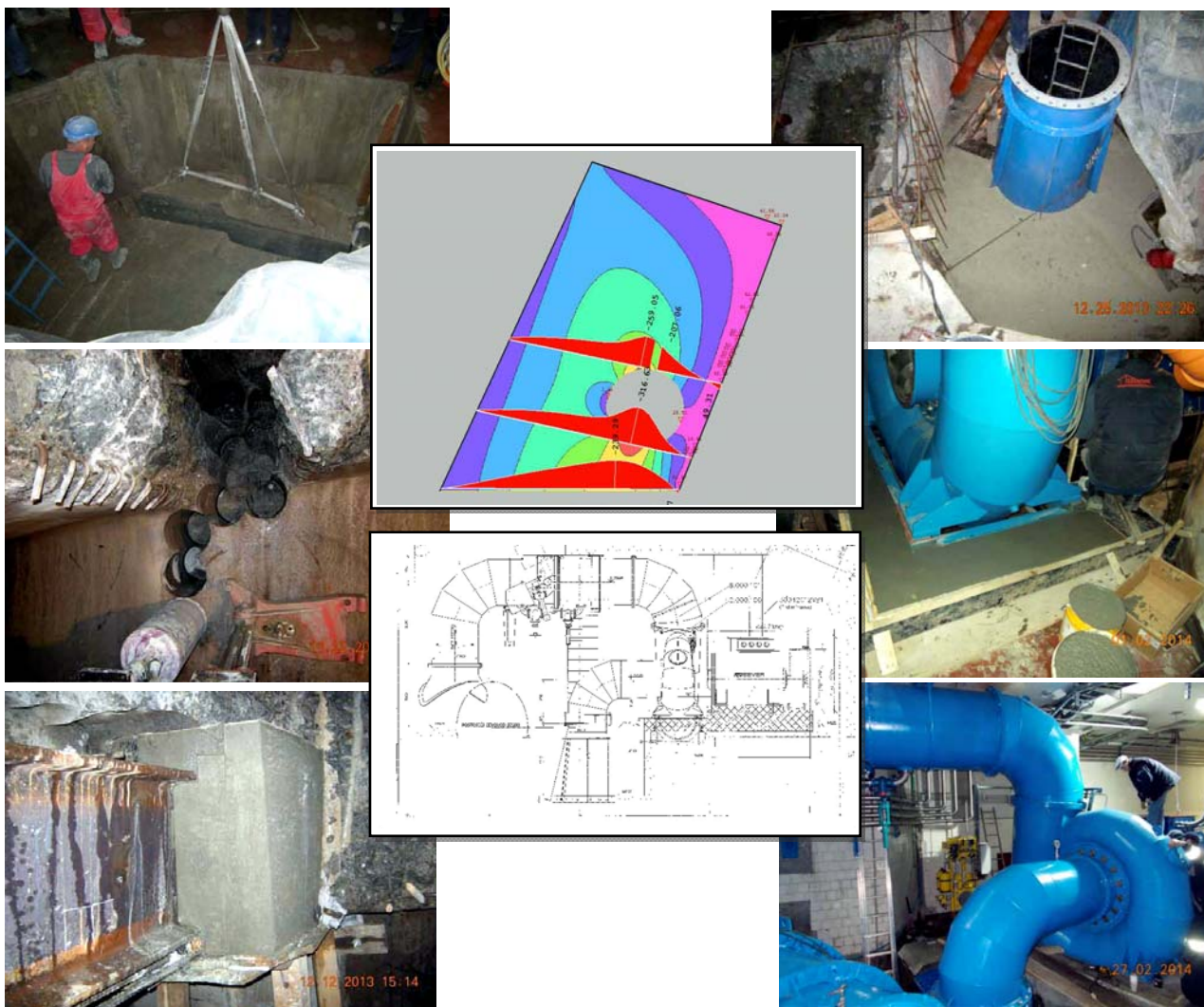
Dam-Water intake

Type Concrete-gravity dam

Height 32.00 m

HPP

Installed capacity 6.87 MW (0.7 MW)



**Description of the Project:** The structural analysis of construction of new additional power unit steel siphon which passes through upper slab of existing concrete siphon in HPP Medjuvsje on the West Morava River, in Ovcar-Kablar gorge, was done. Location of the hole is provided in the niche, unfortunately where the upper slab of the existing siphon is the thinnest. New structure should cope with the additional load of the new power unit, but also to carry forward hydrostatic pressure on existing concrete structure. For this purpose protection measures with steel girders were selected, which will form a monolithic structure in conjunction with a new and old concrete structure.

**The Services Provided:**

- Review of existing technical documentation
- Additionally detail site measurements and survey
- Analysis the present state and proposing alternative
- Engineering design ( static, stability and dynamic analyses)
- Preparation formwork and reinforcement drawings
- Implementation of cost estimates with construction time schedules.
- Assisting during the construction.