

Reinforcement of a bailey bridge in ISOLA



Client:

EDF CIH

Project manager:

DIADES

Contractor:

ORYS

Years:

Planning : 2011

Works: 2011

Principal features:

Bailey bridge formed of 2x2 side beams spanning 25 m.

Cost of works: €400 k exclusive of tax

Background

South of the municipality of Isola, the tailings impoundments of the plant in Valabres are reached by the metal Bailey bridge, which crosses the Tinée river.

The seriously defective condition of the structure required its use to be limited to the crossing of light vehicles only.

For industrial reasons, EDF wished to reinforce the structure to enable worksite vehicles and machinery weighing up to 24 tonnes to cross the Tinée.

The reinforcement of the Bailey bridge increased its load-bearing capacity, allowing greater access to the impoundments and enabling the intended use to be carried out.

DIADES' task

DIADES carried out the diagnosis and complete project management task, which included the following phases:

- Detailed inspection,
- Identification of additional investigations,
- Leading of additional investigations,
- Complete recalculation of the structure,
- Diagnosis of the structure,
- Pre-project planning (*AVP*),
- Project planning (*PRO*),
- Tender documents (*DCE*),
- Assistance in awarding contracts (*ACT*),
- Project conformity assessment and approval of plans (*VISA*),
- Supervision of works (*DET*),
- Ordering, leading and coordinating works (*OPC*),
- Approval of works on completion (*AOR*).

Testing of calibrated loads in convoy enabled the efficiency of the reinforcement works to be checked and approved.

Reinforcement of a metal structure

Meeting the deadline

The general timing of the works was improved in order to schedule the strengthening works to take place before the tailings impounds were drained. The planning phase (from diagnosis to the preparation of the tender documents) lasted three months. The reinforcement works lasted two months.

diadès

ZAC Le Griffon
7, Chemin des Gorges de
Cabriès
13127 VITROLLES
Tel: +33 (0)4.42.12.41.30
Fax: +33(0)4.42.12.41.39
Mail: diades.aix@diades.fr

