

N5 Solothurn – Biel Birchitunnel

Client

Office for National Roads of the Canton of Solothurn

Consultant

IUB Engineering Ltd. in consortium

Construction periode

1993–2001

Construction costs

160 Mio. CHF

Scope of service

- Construction project
- Tender and comparison of tenders
- Execution project
- Supervision of works
- Documentation on the project

According to the terms of reference of the overall project management, the consortium - under the leadership of IUB (certified according to ISO 9001) - drew up a QC plan with annual audits for all partners (project work and supervision of works).

Description

The Birchi tunnel is a section of the N5 highway in the Canton of Solothurn (N5/2 section Nennigkofen – Zuchwil).

Main technical data

- Type of tunnel double tube with 2 lanes per driving direction
- Length 2 x 1'400 m (2 x 700 m underground, 2 x 700 m open-cut)
- Profile horseshoe profile with bottom slab (in open-cut section base plate)
- excavation cross-section 100 m²
- Geology lower fresh water molasse
- Type of heading Pilot tunnel with partial excavation of roof section, face and invert, excavated with part-section machine at both portals
- Stations Longitudinal ventilation (jet ventilators)
- Infrastructure Power supply, lighting, safety/ communication equipment, supply of water for fire fighting

