

TUNNEL BREZNO

Construction supervision and technical support

Country: Czech Republic

Client: Railway Infrastructure Administration, state organization (RIA)

Civil Engineering Administration, Plzen

Year 2006 - 2007



Project Description:

Single-track railway tunnel Brezno is situated on the relocated railway from Brezno to Chomutov. The relocation of previous track was caused by coal mining extension up to current mining limits.

The tunnel excavation is realised in so called „Libkovicse clays“. After 2003 collapse the original slot cutting (Perforex) excavation method was changed to the sequential method (NATM) for an excavation in the opposite direction (from 2004) and for an excavation through the collapsed area (from 2006).



Tunnel construction also includes a realisation of the shaft for an emergency exit of passengers located approx in the tunnel centre.

Project Contribution:

Client (RIA) employed D2 Consult as independent construction supervisor and for a technical support.

Services provided:

- ◆ Advisory a consultancy services for the client (RIA)
- ◆ Proposals for excavation technology changes and for excavation support optimisation
- ◆ Cost analyses
- ◆ Static calculations and numerical modelling as an independent check
- ◆ Construction supervision

