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 „Libkovice clays“. After 2003 collapse the original slot cutting (Perforex) excavation method was changed to the sequencial 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 passangers 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 optimalisation
♦ Cost analyses
♦ Static calculations and numerical modelling as an independent check
♦ Construction supervision