TUNNEL COMPLEX BLANKA – TUNNEL BRUSNICE

Technical support of contractor for the tunnel re-excavation

Country: Czech Republic
Client: Metrostav a.s.
Year: 2010

Project description:
The Blanka tunnel complex in Prague is situated in the north-western part of the City Circle Road (the inner circle). The total length of this section is 6.382 km; the aggregate length of Blanka tunnels reaches 5.5 km.

The Brusnice tunnel is part of the Blanka. The mined part of the Brusnice tunnel is 550 m long, it has two three-lane tubes (NTT and STT) excavated by NATM in shales, sandstones, and quartzites with overburden up to 27 m.

A daylight collapse of the NTT occurred on 5th July 2010. The collapse occurred during demolition of temporary lining in area of central pillar.

Project contribution:
- Detail design check
- Construction supervision
- Technical proposals

Services provided:
- Evaluation of collapse reasons
- Supervision of the detail design of the tunnel re-excavation
- Optimisation of the re-excavation procedure
- Proposition of procedures to eliminate possible collapses of the project in future