ETCS Ceneri Base Tunnel, Tender and Realisation Train Control and Signalling System

Tender specification, offer evaluation, assistance of detailed design, realisation and commissioning of the new train control and signalling system for the Ceneri base tunnel on behalf of AlpTransit Gotthard AG (ATG). Assistance to ATG in setting up, check and approval of the detailed design with the contractor. Assistance to ATG in supervising the assembly and installation of the signalling equipment (sampling inspection, tests, ...) and preparation and execution of the commissioning. The project is carried out by a consortium under the lead of Emch+Berger AG Bern.

The works includes all signalling related systems on an ERTMS-basis in the perimeter of the project such as control and communication system, interlocking, ETCS/RBC and is embedded over special interfaces into other neighbouring signalling systems (conventional signalling systems).

Client
AlpTransit Gotthard AG, Lucerne

Period: 2010 - 2021

Delivered services
- Submission documents
- Offer evaluation
- Assistance during procurement
- Supervising the contractor
- Assistance to the Client (ATG)
- Technical support
- Project management
- Verification of the RAMS process
- Cost controlling

Specifications
- Two separated running tunnels: 15.4 km
- Train speed: 80-250 km/h
- Headway: 3 min
- Train control system: ETCS level 2
- RBC with GSM-R interface: 1
- Interlockings: 1
- Balises: approx. 200
- Central Control System: 1