



System Technology Railway Axle Brenner Section Kundl/Radfeld-Baumkirchen – Austria

Order Description: Technical Consulting regarding the tendering of the telecommunication and power supply system

Client: Bernard Ingenieure ZT GmbH

Volume: 110,000 Euro

Period: 2009

- Scope of Work:**
- › Analysis of tender documents with regard to completeness, comprehensibility and texture (technical description, standards, legal conditions, attachments, time schedules)
 - › Definition of interfaces between subsections
 - › Cable Lists
 - › Cost estimate for telecommunication system
 - › Inspection log
 - › Analysis of interfaces between new and existing track
 - › Implementation logistic

Technical Details: Telecommunication System

- › Fibre optic cable: 100,000 m
- › Radio network cable: 90,000 m
- › Radio masts: 52 pcs
- › Antennas: 104 pcs

Signalling System:

- › Interlocking block centres: 4 pcs
- › Radio block centres: 1 pcs
- › Euro balises: 243 pcs

Catenery:

- › Catenary wire level: 550 cm
- › Catenary wire length: 100,000 m
- › Wire section: 120 mm²
- › Silver alloyed copper

Power supply:

- › Performance: 4,400 kW
- › Substations 30 kV / 10 kV: 5 pcs
- › Substations 10 kV / 690 V / 400 V: 21. pcs
- › Total cable length: 2,200 km