UHN 07 SNEKKESTAD PROJECT
SNEKKESTAD (NO)

CLIENT
Jernbaneverket Utbygging
(Norwegian National Rail Administration)

CONSTRUCTION PERIOD
2011 - 2015

CONTRACT SUM
CHF 78 Mio. (NOK 500 Mio.)

JOINT VENTURE COMPANY
Marti ÍAV DA

JOINT VENTURE PARTNERS
Marti Tunnel AG, CH-3302 Moosseedorf
ÍAV hf, IS-110 Reykjavik

LEAD COMPANY AND TECHNICAL LEAD
Marti Tunnel AG, CH-3302 Moosseedorf

COMMERCIAL LEAD
ÍAV hf, IS-110 Reykjavik
**UHN 07 SNEKKESTAD PROJECT**

**SNEKKESTAD (NO)**

**PROJECT DESCRIPTION**

The UHN 07 Snekkesatd project is the southernmost 2.5 km long construction lot of the double track railway line between Holm and Nykirke, which aims to modernize the Vestfold railway system. The main parts of the project consist of:

- 2'100 m long (135 m²) double track railway tunnel
- 400 m of double track railway
- 320 m long (53 m²) adit/escape tunnel
- 380 m long (24 m²) escape tunnel

**GEOLOGY**

- Basalt
- Rhombic porphyry

**WORK DESCRIPTION**

Underground excavation, rock support and grouting work

- Excavation methods: drill & blast, pipe umbrella advance (60 m)
- Excavated length and volume: 2'995 m, 332'000 m³
- Grouting method: systematic cementous pre-grouting
  - Grouting quantity: 208 rounds, 10'000 t of cement
- Standard rock support: shotcrete (9'930 m²) and systematic rock bolts (19'600 pcs)
- Additional rock support: reinforced shotcrete arches (36 pcs.), steel beams (57 pcs.)

Underground water and frost protection work

- Concrete elements lining: 51'350 m²
- PE-foam & shotcrete lining: 12'360 m²
- Spray applied membrane & shotcrete lining: 2'700 m²

Surface- and groundwork

- Sheet piling work in the portal area
- Roadwork
- Fresh water and drainage system
- Installation of cables pipes and channeling

Concrete work

- 3 technical buildings
- One 50 m long portal

Electrical work

- Earthing system