



Tunnel Snekkestad (N) Grouting

Employer

Jernbaneverket Utbygging (National Railway Authority)

Designer

Rambol and Norconsult

Execution of works

JV Marti IAV DA: Marti Contractors Ltd., Moosseedorf

IVA, Reykjavik

Construction Period

2011 - 2014

Contract Sum

CHF 85 Mio. (NOK 517 Mio.)

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Project Description

The contract includes creation of a double track railway tunnel with an overall length of 2,100 m and cross-section of 135 m and two refuge tunnels. The breakout is carried out by blasting.

Grouting work performed

Systematic pre-grouting to minimize water intrusion during driving work (full length of tunnel). Grouting takes place in 20 m sections. Grouting alternates with driving using explosives. The bore holes are made by a three boom jumbo drill rig.

Scope of works

1. Drilling time: 2.900 hrs
2. Grouting time: 4.900 hrs
Total metres drilled: 261,000 m
Quantities injected: 8,830,000l or 10,760,000 kg cement







- 1. Drill rig for production of blasting and grouting holes
- 2. Packer installation for grouting
- 3. Mobile grouting system with four pumps and two mixers