



# **RV. 13 RYFAST - SOLBAKKTUNNEL**

## **TAU (NO)**

### **CLIENT**

Statens Vegvesen Region Vest, NO-6863 Leikang  
(Norwegian Road Administration)

### **CONSTRUCTION PERIOD**

06.2013 – 12.2018

### **CONTRACT SUM**

CHF 206 Mio. (NOK 1'303 Mio.)

### **JOINT VENTURE COMPANY**

Marti ÍAV Solbakk DA

### **JOINT VENTURE PARTNERS**

Marti Tunnel AG, CH-3302 Moosseedorf  
Marti AS, NO-0278 Oslo  
TuCon a.s., SK-010 04 Žilina-Bánová  
ÍAV hf, IS-110 Reykjavík

### **LEAD COMPANY AND TECHNICAL LEAD**

Marti Tunnel AG, CH-3302 Moosseedorf

### **COMMERCIAL LEAD**

Marti AS, NO-0278 Oslo

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## TAU (NO)

### PROJECT DESCRIPTION

The E02 Solbakk project is the northern construction lot of the Ryfast project between Stavanger and Tau which comprises a two lane twin-tube road tunnel including roadwork and sea-filling. The main parts of the project consist of:

- 2 x 7'980 m long (68 m<sup>2</sup>) double lane road tunnel
- 16 cross connections (17 - 41 m<sup>2</sup>)
- 2 caverns (up to 308 m<sup>2</sup>)
- Technical niches, pump stations, sedimentationbassin

### WORK DESCRIPTION

Underground excavation, rock support and grouting work

- Excavation method: drill & blast
- Excavated length and volume: 16'570 m, 1'280'000 m<sup>3</sup> mucked by conveyor belt
- Grouting method: systematic probe drilling, cementous pre-grouting
- Grouting quantity: 190 rounds, 4'300 t of grouting media
- Standard rock support: shotcrete (64'600 m<sup>3</sup>) and systematic rock bolts (121'600 pcs)
- Additional rock support: spiling bolts and reinforced shotcrete arches

Underground water and frost protection work

- Reinforced membrane & shotcrete lining: 140'000 m<sup>2</sup>
- Precasted concrete wall elements lining: 2'200 m<sup>2</sup>

Other UG and surface work

- Sea-fillings with blasted rock: approx. 2 Mio. m<sup>3</sup>
- Roadworks: 17.4 km
- Fresh water and drainage system
- Installation of cables pipes and cable bridges

Concrete work

- Technical buildings, pump stations and basins
- Two 250m long portals (Cut&cover)

Electrical work

- Earthing system

### GEOLOGY

- Gneiss



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