



# VADLAHEIDI PROJECT

## AKUREYRI (IS)

### CLIENT

Vadlaheidarganga hf.  
(Icelandic Road Administration)

### CONSTRUCTION PERIOD

01.2013 - 12.2018

### CONTRACT SUM

CHF 51 Mio. (ISK 6'732 Mio.)

### JOINT VENTURE COMPANY

ÓSAFL sf.

### JOINT VENTURE PARTNERS

Marti Tunnel AG, CH-3302 Moosseedorf  
ÍAV hf, IS-110 Reykjavík

### LEAD COMPANY AND COMMERCIAL LEAD

ÍAV hf, IS-110 Reykjavík

### TECHNICAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

# VADLAHEIDI PROJECT

## AKUREYRI (IS)

### PROJECT DESCRIPTION

The Vadlaheidargöng project is a 7.2 km long double lane road tunnel located east of Akureyri, which aims to adapt the national road alignment to reduce the travel time. The main parts of the project consist of:

- 7'170 m long (67 m<sup>2</sup>) double lane road tunnel
- 6 technical and safety niches
- Road works of 11.3 km

### WORK DESCRIPTION

Underground excavation, rock support and grouting work

- Excavation with drill & blast Excavation with Excavator
- Locally located pipe umbrella
- Excavated length 7'230 m
- Excavated Volume: 495'000 m<sup>3</sup>
- Grouting method: systematic probe drilling, Cementous and chemical pre-grouting (223 Tons)
- Rock support: shotcrete (15'000 m<sup>3</sup>) and systematic rock bolts (28'500 pcs)
- Additional rock support: spiling bolts and reinforced shotcrete arches

Underground water and frost protection work

- PE-foam & shotcrete lining: 45'000 m<sup>2</sup>

Surface and groundwork

- Pre-cut excavation: 90'000 m<sup>3</sup>
- Roadwork: 11.3 km
- Fresh water and drainage system
- Installation of cables pipes

Concrete work

- 6 technical buildings and safety niches
- Portals cut&cover: 84 and 224 m

Electrical and safety work

- Earthing system
- Electrical installations and equipment
- Tunnel safety equipment

### GEOLOGY

- Basalt with intersections of sedimentary layers
- High water inflow with cold and geothermal hot water



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**Marti Tunnel AG**

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