



# ÓSHLÍÐ PROJECT

## BOLUNGARVÍK (IS)

### CLIENT

Vegagerdin, IS-105 Reykjavik  
(Icelandic Road Administration)

### CONSTRUCTION PERIOD

2008 - 2010

### CONTRACT SUM

CHF 50 Mio. (ISK 3'500 Mio.)

### JOINT VENTURE COMPANY

ÓSAFL sf.

### JOINT VENTURE PARTNERS

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

### LEAD COMPANY AND COMMERCIAL LEAD

ÍAV hf, IS-110 Reykjavik

### TECHNICAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

# ÓSHLÍD PROJECT

## BOLUNGARVÍK (IS)

### SCOPE OF THE WORKS

The Óshlíð road tunnel has been built as an avalanches and landslides protection project. The 5.2 km long double lane tunnel lies between Bolungarvík and Hnífsdalur in the Icelandic Westfjords.

The main parts of the project consist of:

- 5'156 m long (54 m<sup>2</sup>) double lane road tunnel, turning bays and tunnel widenings
- 10'450 m of road
- 2 bridges

### WORK DESCRIPTION

Underground excavation, rock support and grouting work

- Excavation methods: drill & blast
- Excavated length: 5'156 m
- Excavated Volume: 300'000 m<sup>3</sup>
- Standard rock support: shotcrete (17'200 m<sup>3</sup>) and systematic rock bolts (18'400 pcs)
- Additional rock support: spiling bolts, lattice girders and reinforced shotcrete arches

Underground water and frost protection work

- PE-foam & shotcrete lining: 29'000 m<sup>2</sup>

Surface- and groundwork

- Pre-cut excavation
- Roadwork: 10'450 m
- Fresh water and drainage system
- Installation of cables pipes
- One avalanche dam

Concrete work

- 2 technical buildings
- Portals: 129 m and 135 m
- Bridges: 32 m and 8 m (prestressed)

Electrical work

- Earthing system
- Electro mechanical installations and equipment (lights, signalisation, ventilation fans)

### GEOLOGY

- Basalt with intersections of sedimentary layers (silt-stone)



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**Marti Tunnel AG**

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