ÓSHLÍD PROJECT
BOLUNGANRÍK (IS)

CLIENT
Vegagerdin
(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 Reykjavík

LEAD COMPANY AND COMMERCIAL LEAD
ÍAV hf, IS-110 Reykjavík

TECHNICAL LEAD
Marti Tunnel AG, CH-3302 Moosseedorf
ÓSHLÍD PROJECT
BOLUNGARVÍK (IS)

PROJECT DESCRIPTION
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 m²) 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 m³
- Standard rock support: shotcrete (17’200 m³) 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 m²

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 (siltstone)