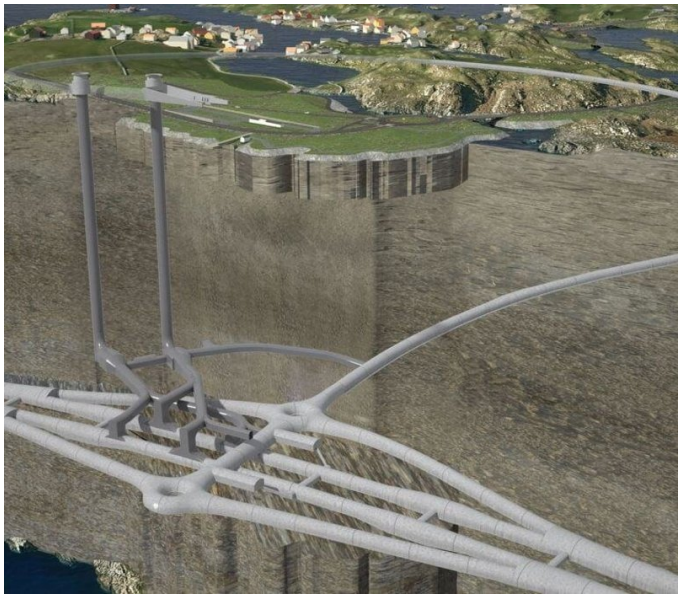
E39 Rogfast, E02 Kvitsøy contract





SHORT DESCRIPTION

The Joint Venture (JV) of Implenia and Stangeland Maskin (Implenia 77%, Stangeland Maskin 23%) has been awarded with a second contract for the Rogfast project by the Norwegian Public Roads Administration. The total contract value of the new project E02 Kvitsøy amounts to more than CHF 540 million, resulting in an order volume for Implenia of over CHF 420 million.

THE PROJECT

The E02 Kvitsøy contract is considered the most complex part of the Rogfast project and includes approximately 8.8 km of double tube, two-lane tunnel with a cross-section of 10.5 metres, and will be built both to the south and north from Kvitsøy, and includes, among other things, the complicated two-level intersection inside the mountain with the ramp towards Kvitsøy.

SERVICES IN DETAIL

Two vertical ventilation shafts will be built which are approximately 230 meters deep and 8.6 meters and 9.4 meters in diameter. These, together with several ventilation tunnels, will lead used air out one shaft and bring fresh air into the other shaft. The undertaking also includes 17 technical buildings, 154 emergency stations, 38 cross passages between the tubes, five pumping stations and some other structures.

In addition, approximately 1.6 kilometers of road in the day zone, pedestrian and cycle paths, and a bridge of approximately 20 meters will be built. Approximately two million cubic meters of rock from the tunnel will be filled in two sea fills and the largest sea fill will become commercial land on Kvitsøy.

The high water pressures and some areas with poor rock conditions pose a particular challenge and require complex sealing measures through injections.

Continuing the proven JV collaboration, Implenia is already building the E03 Boknafjord tunnel together with Stangeland Maskin, which means that the JV builds around 70 percent of the entire Rogfast project.

CHALLENGES

- Long tunnel sections
- Geologically challenging
- High water pressure and complex sealing measures by injections
- Fault zones with unfavourable rock conditions
- Land reclamation for an industrial zone by embankment along a coastal area
- Consideration for the environment and its protection
- Elongated ventilation with three ventilation shafts

FURTHER INFORMATION

Joint venture

- Implenia 77%
- Stangeland Maskin 23%

Image: © Norconsult/Norwegian Public Roads Administration

FACTS

Location	Kvitsøy , Norway
Status	Under construction
Construction volume (value of our services)	420 M CHF
Start of construction	August 2024
Completion	January 2030
Contracting entity	Norwegian Public Roads Administration
Construction management	JV Implenia Norge - Stangeland Maskin
ARGE	✓
Construction management	JV Implenia Norge - Stangeland Maskin
Length	8800 m

SERVICES

Tunnelling

Transport tunnels

https://implenia.com/en/references/detail/ref/e39-rogfast/

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