



04_TRANSPORTATION AND INFRASTRUCTURE

Kleberget – Såstad

New double track



Alternative for the impact assessment | Illustration: Multiconsult

Multiconsult, in cooperation with WSP, has drawn up an impact assessment and local authority subplan for a new double-track rail line from Kleberget in Moss to Såstad in Rygge local authority, a distance of about six kilometres.

The company's responsibility covers a planning description with impact assessment and the technical disciplines of geology, tunnelling, geotechnology, structural engineering, acoustics, road planning, landscape architecture, architecture, area planning, reliability, availability, maintainability and safety (RAMS), civil engineering, cost estimation, and risk and vulnerability analysis. WSP has been responsible for rail technology, tracks, the aerial lines, signalling, telecommunications and electrical engineering. The assignment also includes studies of two alternative areas for an operational depot in Rygge, with a planned capacity of 24 train sets.

PROJECT

New double track for the Kleberget-Såstad section

PROJECT TYPE

Screening report, planning programme, main plan, impact assessment and local authority subplan

LOCATION

Rygge and Moss local authorities

CLIENT

Norwegian National Rail Administration, construction projects

TIME PERIOD

2010 - 2012

KEY NUMBERS

Estimated construction cost is NOK 1 653 million

SCOPE OF WORK

The project embraces many technical disciplines, and has been pursued in close cooperation with Sweden's WSP as the provider of the rail technology disciplines. Two alternatives have been prepared for the new double track. The planning area contains a great deal of quick clay, and this presented problems in finding measures which could stabilise the area near Festestranda for the open-air alternative.

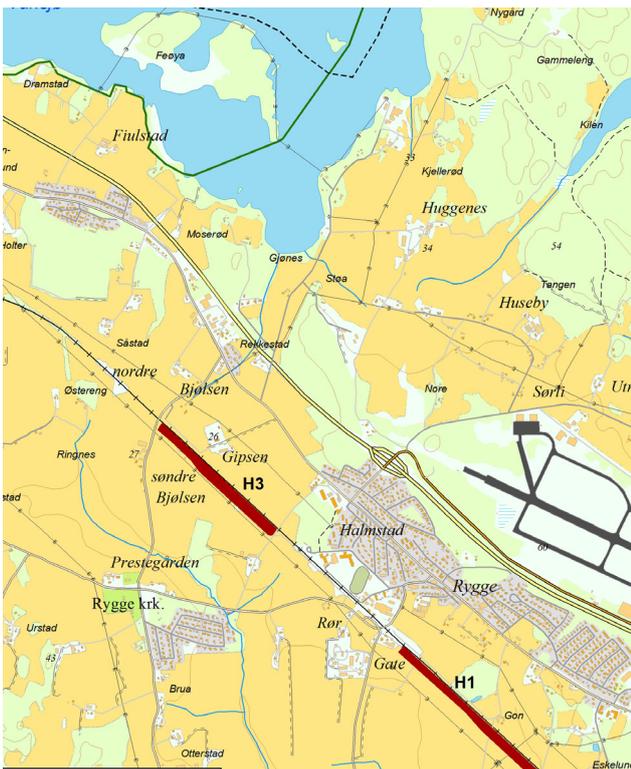
Where the Carlberg alternative is concerned, challenges have been presented by the lack of cover for the Carlberg tunnel. Both alternatives cross a proposed landscape conservation area, and landscape considerations have occupied a very central place in the assignment. Achieving grade-separated solutions for the local road system presented challenges with the open-air alternative.

OUR SERVICES

- Planning programme
- Screening report
- Main plan
- Impact assessment
- Local authority subplan
- Subject reports
- Noise calculations
- Cost estimates
- Implementation of reliability, availability, maintainability and safety (RAMS)
- Risk and vulnerability analysis

DISCIPLINES

- Geotechnology
- Geology
- Structures
- Landscape architecture
- Area planning
- Nature conservation
- Environmental protection
- RAMS
- Tunnelling
- Transport, highway engineering
- Acoustics
- Civil engineering
- Costs
- Architecture
- Water and drainage
- Electrical engineering
- Shallow drilling



Alternatives to the EIA | Illustration: Multiconsult



Tunnel portal at Carlberg | Illustration: Multiconsult

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