



# The Follo Line

Technical advice for the realization of the Follo Line

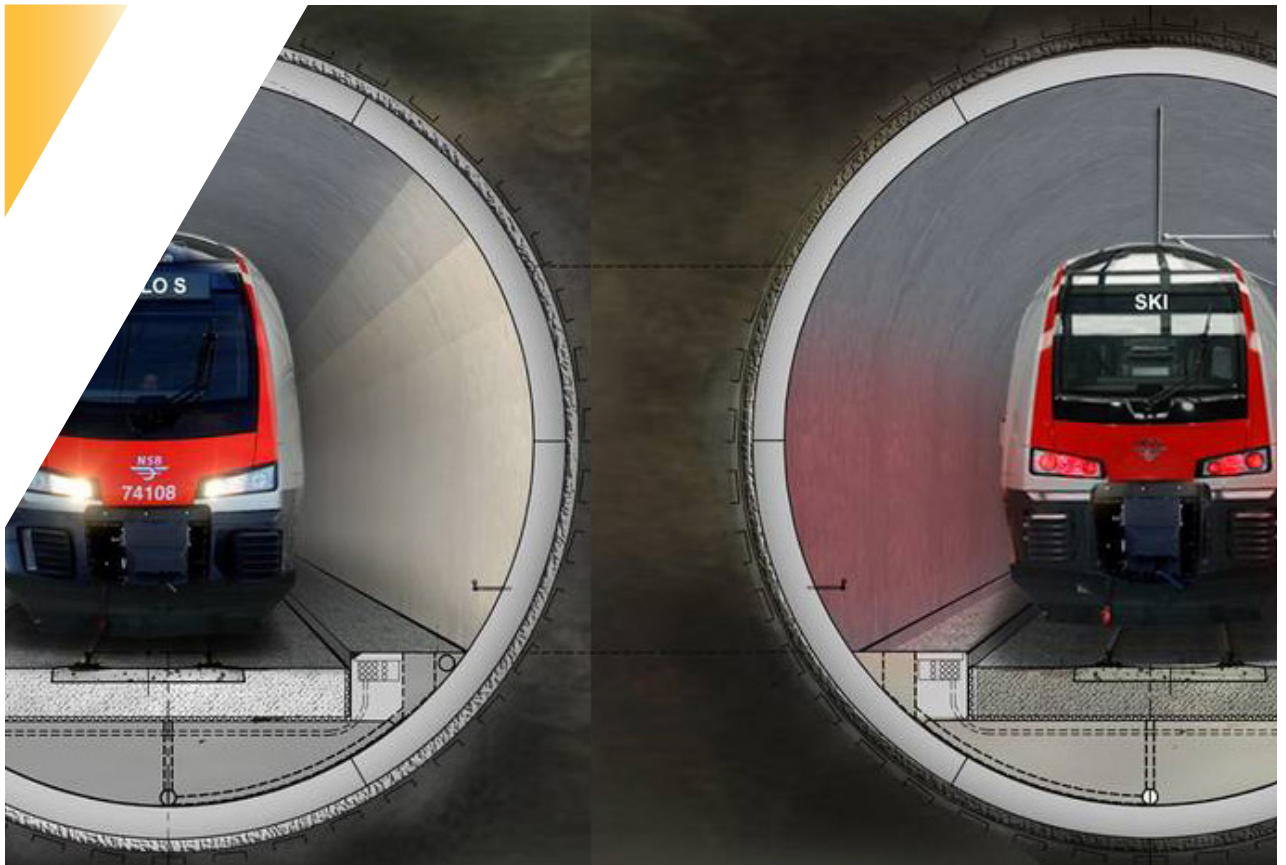


Illustration: Jernbaneverket

FPS AS, a partnership comprising Multiconsult, Aas-Jakobsen and Amberg Engineering, has been awarded the Follo Line Project Service Agreement. This covers all technical consultancy required by the Norwegian National Rail Administration to realise the Follo Line project. The assignment includes:

- design and follow-up of preparatory work from Oslo Central Station to Ski
- developing the basis for four turnkey contracts: Ski Station, the tunnel drilling machine (TDM), drill and blast (D&B), and Oslo Central Station approach (IOS).
- necessary zoning and official application processes
- filling necessary roles in the main client organisation
- carrying out the necessary studies and checks during the project

Multiconsult has been responsible for all work related to the Ski subproject as well as for geology, geotechnology, and water and drainage in the TDM and D&B contracts. Furthermore, it has designed a large rigging and waste disposal site at Åsland which will function as a concrete plant, power supply and depository for rock spoil from the TDM contract.

**PROJECT**  
Follo Line

**PROJECT TYPE**  
Zoning plan, detailed plan and tender documents for turnkey contract

**LOCATION**  
Ski, Oppegård and Oslo local authorities

**CLIENT**  
Norwegian National Rail Administration, construction projects

**TIME PERIOD**  
2013 - 2017

**KEY NUMBERS**  
Estimated project cost about NOK 25 million | Construction start in 2015

## SCOPE OF WORK

The assignment has been executed as a combination of traditional design work, development of the project in workshops together with the National Rail Administration, and making personnel available to the latter's construction client organisation.

All traditional project deliveries have been developed in the assignment. In addition, a completely new turnkey contract concept has been created for developing railway projects.

### Planning phases:

Zoning work including:

- zoning plan
- detailed plan
- detailed design of preparatory work
- supervision of construction work as consultant to main client

## OUR SERVICES

- Site preparation
- Planning
- Design
- Structural engineering
- Landscaping
- Architecture
- Highway engineering
- Water, drainage and district heating
- Electrical engineering
- Geotechnology
- Fire precautions
- Noise abatement
- Traffic
- Environmental protection
- Safety, health and the environment
- Reliability, availability, maintainability and safety (RAMS)
- Cost estimates
- Analyses
- Environmental clearance
- 3D modelling
- Project and construction management



Illustrasjon: Jernbaneverket

IT 104\_000, rev.12.10.2016