

Munich

2. Main line

Data and facts

Company PORR GmbH & Co. KGaA

Type Rail and road tunnels

Principal Deutschen Bahn AG

[Project report online](#)

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PORR

Major contract for Munich's second suburban railway line

Relief for local transport

The approximately 11-kilometer-long second trunk line of the Munich S-Bahn, which stretches between Laim in the west and Leuchtenbergring in the east, is a key infrastructure project for the region. Its primary purpose is to relieve the existing trunk line and provide additional alternative routes. It also lays the foundation for an express S-Bahn system. The centerpiece of the project is a seven-kilometer tunnel that begins shortly before the Donnersbergerbrücke bridge and ends shortly before the Leuchtenbergring S-Bahn station.

Special civil engineering and structural engineering working hand in hand

The VE734 contract package, which is divided into four lots, covers the tunnel section between Ostbahnhof station and the Berg-am-Laim-Straße crossing. As part of contract package 2, PORR's special civil engineering and structural engineering divisions are constructing the approximately 65-meter-long and up to 30-meter-wide rescue shaft 9. This shaft enables rapid evacuations and also serves as the starting shaft for tunnel driving. The approximately 20-meter-deep excavation pit will be enclosed by a back-anchored diaphragm wall. This will be followed by the approximately 55-meter-long crossing structure, which will be constructed using the cut-and-cover method and will allow traffic to flow over the tunnel construction site. Here, the excavation pit will be enclosed by an overlapping bored pile wall. PORR Civil Engineering is responsible for the construction of the load-bearing elements such as ceilings, floors, and interior walls for both structures. In addition, the contract includes ground improvements with high-pressure injections, the construction of two culverts, road construction measures, civil engineering work, and excavation, including professional disposal.

PORR secured two contracts in the “VE 734 Haidenauplatz tunnel section” tender unit as part of the major “2nd Munich trunk line” project. The PORR civil engineering and PORR special civil engineering teams from Munich impressed with their plans for the construction of “Rescue Shaft 9” and the “Berg-am-Laim-Straße Crossing.” The PORR groundwater management team from Austria is contributing its expertise in complex groundwater management. The overall contract was awarded in accordance with Deutsche Bahn's “Rail Partnership Model.”

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The work in contract package 3, awarded to PORR Grundwasserhaltung from Austria, includes the installation and operation of vertical and inclined wells and the implementation of a groundwater treatment plant. In addition, infiltration basins will be created and horizontal filter wells will be constructed for the culvert structures.

Rail partnership model with Deutsche Bahn

Partnership and integrity are particularly important in this project. The rail partnership model developed by the Technical University of Berlin in collaboration with the construction industry and Deutsche Bahn does not rely on the classic client-contractor principle with strict hierarchical levels. Instead, Deutsche Bahn promotes partnership-based and collaborative cooperation with a multi-party or alliance agreement that is geared towards common deadlines, costs, and quality targets. This opens up a new, innovative approach to construction management that promotes close cooperation and leads to better coordination and more efficient project management.

“Working together is a value that is firmly anchored in PORR's corporate culture. Among other things, it stands for the exchange of information and knowledge as well as working on an equal footing. With its 'Rail Partnership Model' cooperation model, Deutsche Bahn hits exactly this core. We look forward to close cooperation with the client,” explains Claude-Patrick Jeutter, Managing Director of PORR Germany.

Impressions

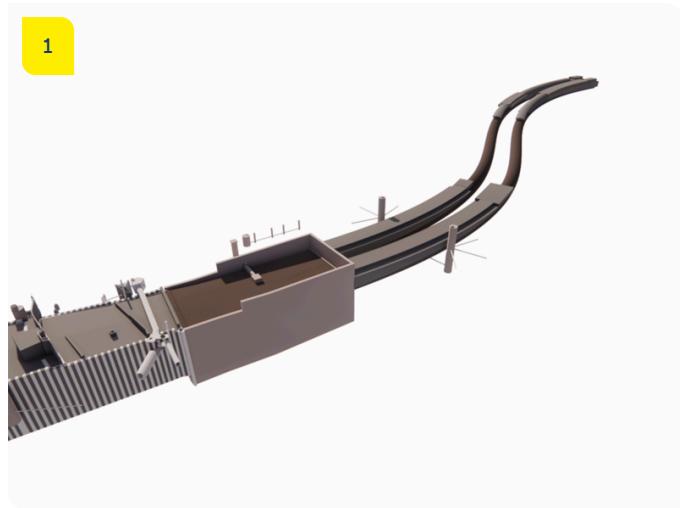


Image notes

1 Visualisierung Stammstrecke Muenchen c DB

Illustration of the Berg am Laim road crossing with rescue shaft 9 and the mining tunnel.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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