



ELI-NP Tunnel

Data and facts

Company

Type Office buildings

Runtime 05.2017 - 04.2018

Principal National Institute of Physics and Nuclear Engineering -
Horia Hulubei

[Project report online](#)

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Foundations for a pioneering science facility.

The ELI-NP Tunnel itself works as a connection building between the new laser and the old nuclear reactor building. PORR was assigned the construction of the complex structure comprising massive foundations and a 2m thick concrete door and walls. For heavy-cast in situ concrete structures we chose barite aggregates with a density of 3.5t/m^3 . Furthermore, heavy concrete bricks had to be installed and concrete structures were necessary to provide protection against radiation.

The building shell consists of a steel structure and the facade is a combination of concrete prefabricated elements and glass. Our works on the tunnel also included the necessary mechanical, electrical, and plumbing installations.

With our broad expertise and year-long know-how we were able to finalise this unique project in just eleven months, three months faster than the contractual execution time.

Impressions

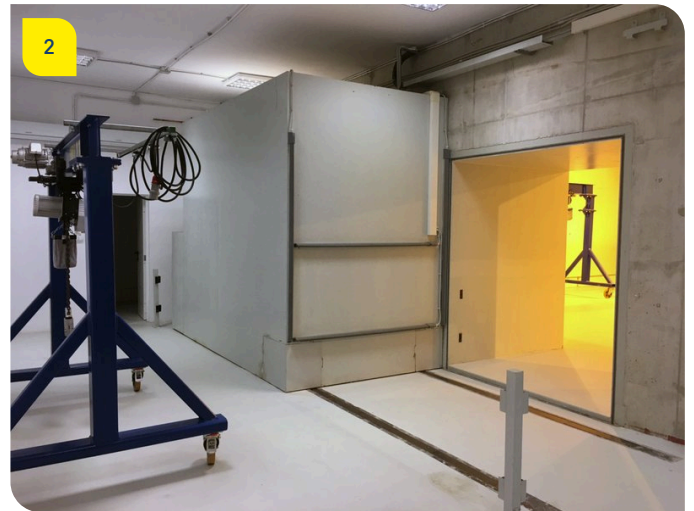


Image notes

1

An advanced research facility.

The ELI-NP Tunnel is part of an impressive infrastructural building for one of the strongest lasers in the world.

2

Well-founded protection against radiation.

Massive foundations, heavy concrete walls, doors and structures were necessary to guarantee safety in the research of nuclear materials.

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

PORR AG Group Communications

Absberggasse 47

1100 Wien

T +43 50 626-0

E-Mail: comms@porr-group.com