



Tunnels and Bridges

Transportation

The Lahmeyer International GmbH was founded in 1966 as a subsidiary of the former Elektrizitäts-Aktien-Gesellschaft, rooting back to 1890. As an independent engineering consultant, Lahmeyer International offers a wide range of planning and consultancy services, primarily for complex infrastructure projects. The main fields of activity are energy, hydropower and water resources as well as transportation.

Lahmeyer International has developed into a leading international consultancy with projects in 140 countries around the globe. Today, the Lahmeyer International Group with its associated companies employs 850 people.

Lahmeyer International's experience and reputation is based on the specialist skills of highly qualified engineers, scientists and economists working in multidisciplinary teams and in a multinational environment. This experience allows Lahmeyer International to offer the clients technically and economically optimal solutions, and to deliver an overall successful project.

Engineering and consultancy for complex and technically demanding transportation projects are a core sector of Lahmeyer International services. The range of projects spans railways, urban transport systems, roads and highways, underground structures, tunnels and bridges.

The professionals of Lahmeyer International with their experience and expertise are committed to delivering responsive, quality-managed solutions to clients through all phases of a traffic infrastructure project.

Our services:

- Pre-investigations, technical, economic and EIA studies
- Concept development, alignment optimisation, selection of construction methods
- Planning of civil works and structural design
- Design of electromechanical installations (lighting, signalling, ventilation, safety equipment etc.)
- Design check and approval, construction supervision, survey and monitoring
- Final acceptance and commissioning
- Support during tendering and contracting (e.g. according to FIDIC or IFI rules)
- Project management and coordination

Tunnels



To traverse natural barriers with modern transportation lines, or to relieve city centres from traffic congestion and pollution – in both cases, going underground is an important strategy.

Lahmeyer International's highly skilled specialists have been providing innovative engineering services for subway and LRT tunnels, underground stations, tunnels for high-speed railways and motorways, and underground parking facilities.



- Cut and cover tunnelling
- New Austrian tunnelling method (NATM)
- TBM tunnelling (tunnel boring machines)
- Immersed tunnels
- Deep excavations
- Shaft sinking / raising
- Tunnel rehabilitation
- E&M equipment (ventilation, lighting, communications, etc.)
- Tunnel safety concepts and installations
- Operation and maintenance

Bridges



For more than 2000 years, bridges have been built to cross valleys and rivers. Today, even wide sea straits are spanned by bridges, following the demand for rapid and safe travel.

The engineers of Lahmeyer International are experienced with the planning and design of bridges of every size and purpose, either embedded in the context of a longer road or railway route, or as stand-alone project.



- Steel, concrete, or composite structures
- Foundations
- Substructure
- Bearings
- Superstructure
- Cantilevering
- Incremental launching
- Stepping form works
- Bridge rehabilitation

Other Structures



In addition to tunnels and bridges, the construction of traffic routes through difficult terrain calls for a whole variety of further structures: retention walls, embankments, special foundations, ground improvement measures and deep temporary excavations are only a few examples.



- Geology and geotechnics
- Hydrology and hydraulics
- Survey and monitoring
- Environmental impact assessment and monitoring
- Architecture
- Traffic planning and economy



Lahmeyer International GmbH
Friedberger Str. 173
61118 Bad Vilbel, Germany

Tel.: +49 (61 01) 55 - 0
Fax: +49 (61 01) 55 - 22 22
E-Mail: info@lahmeyer.de
Internet: www.lahmeyer.de

Transportation Division

Tel.: +49 (61 01) 55 - 13 94
Fax: +49 (61 01) 55 - 15 20
E-Mail: transportation@lahmeyer.de
Internet: www.lahmeyer.de