



Rail Systems and Roads

## Transportation

The Lahmeyer International 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

## Railways



The planning and realisation of large-scale railway projects involves many specialised engineering services. The complexity, the integration of numerous areas of expertise and tight cost and time constraints pose a great challenge for the owner.

Lahmeyer International can draw on over 40 years of experience world-wide in the planning, supervision and project management of complex railway projects.



- Conventional railway systems
- High-speed railway systems
- Industrial railway systems
- Magnetic levitation systems
- Marshalling and goods transfer yards
- Railway rehabilitation measures
- Civil work, permanent way
- Electrical and mechanical installations
- Rolling stock / depots and workshops
- Operation and maintenance

## Urban Transportation Systems



Urban transport systems are essential for solving the serious traffic problems facing the world's overcrowded cities and are needed to reduce the environmental impact from individual traffic. Today, public transportation systems must be built and renewed in order to meet the challenges of tomorrow.

Lahmeyer International has been entrusted with the delivery of numerous prestigious and technically demanding urban transport systems.



- Tramways
- Light rail transit systems (LRT)
- Mass rapid transit systems (METRO)
- Civil work, track work
- Electrical and mechanical installations
- Rolling stock
- Depots and workshops
- Operation and maintenance

## Roads and Highways



Important and ecologically beneficial though track-bound transportation systems may be, efficient highway and road networks are almost always, the backbone of all urban and nation-wide transport systems.

The specialists of Lahmeyer International have state of the art experience in the planning and design of all kinds of roads and highways under greatly varying local and environmental conditions.



- Highways
- National roads
- Urban roads
- Toll stations
- Rest areas
- Parking facilities
- Road service centres
- Lighting
- Telecommunication systems
- Noise protection



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