



Tunnels

Growth in the Indian tunnel market is expected to accelerate in the next few years, with the government's focus on infrastructure development being the key driver. Substantial investments are planned for the construction of all-weather roads and new tunnels in strategic and sensitive areas.

With our legacy spanning from STRABAG, one of Europe's leading construction groups with approximately 76,919 employees, more than 700 locations in about 80 countries, we have understanding in the space of tunnel equipment, traffic systems, and electrical plant engineering, with detailed knowledge in both country-specific standards and guidelines and local technical conditions. EFKON India's tunnel offerings have equipped many kilometers of tunnels with electrical systems and implemented telematic infrastructure along important road network. We have the technological know-how and expertise in the area of service and maintenance and can offer on-the-spot reaction times.


Key features of tunnel and traffic solutions comprises of

- Systems for the registration, control, and influencing of private transport
- Video-based traffic and incident surveillance
- Complete safety technology for road and rail tunnels including lighting and ventilation as well as emergency call systems and tunnel radio coverage
- Firewater supply systems and fire alarms, fire-fighting systems
- Efficient energy distribution (low and medium voltage, emergency power supply, alternative energy, etc.)

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Tunnel Technology

- Illumination
- Standard ventilation
- Ventilation in the event of fire
- Air quality measurements
- Video surveillance
- Acoustic irradiation
- Emergency alarm systems
- Radio systems
- Cable laying
- Pipes for fire-fighting water
- Fire alarm systems
- Fire extinguishing systems

Traffic Systems

- Traffic control systems
- Traffic signs
- Information boards
- Transport sign gantries
- Route stations
- Cable laying
- Roadside borders
- Black ice warning systems
- Environmental data capture
- Traffic monitoring/management
- Video traffic and event observation
- Light signal systems
- Weighing systems

Process Control Engineering

- Traffic and tunnel control rooms
- Maintenance equipment
- SCADA systems
- Control
- Transmission and network systems of all kinds
- Distributed control systems
- Optical wave guide infrastructure

Advantage of using EFKON's Tunnel solutions



Improved total costs to total benefit ratio



State-of-the-art electro-technical tunneling infrastructure



Efficient and reliable technology



Integration with emergency call systems, access controls and control rooms



Complete safety technology for road and rail tunnels



Accident and incident detection

EFKON India's Flagship Projects

India's government has planned a 326 km long railway line joining the Kashmir valley with the Indian Railways network. Jammu – Udhampur – Katra – Quazigund - Baramulla Railway line is the biggest project in constructing a mountain railway since Indian independence. This project is perhaps the most challenging new railway line project undertaken on the Indian subcontinent. The length from Udhampur to Baramulla has been divided into four sections, out of which the most significant one is the stretch between **Katra – Banihal (111 km)**.

STRABAG Infrastructure & Safety Solutions (SISS) and EFKON India collectively bid to provide the following offerings for the various packages of Katra – Banihal Rail Link project:

- Provision of Electric and Mechanical (E&M) system
- Tunnel Ventilation Systems
- Tunnel Lighting
- SCADA System and Fire Fighting System, etc.

The total tunnels from Katra to Sangaldan are 20, and total E&M projects are 05, and total tunnels between Sangaldan to Banihal are 9, and total E&M projects are 04.

Rohtang Pass Highway Tunnel

– It is a long two-lane road of 8.8 km with an integrated emergency tunnel beneath the roadway via the NATM tunnelling method. Also, known as a horseshoe-shaped tunnel

Oswaldiberg Tunnel

– The tunnel length is about 4.3 km where all the constructional and electromechanical restructuring measures were taken in the tunnel and the adjacent open-air areas

Liefering Tunnel

– The tunnel covers about (3 – 4 lanes) and is 0.5 km. We implemented Rene safety equipment in the tunnelway of all operating and pre-portal areas along with fixed fire-fighting system

Bosruck Tunnel

– This tunnel has two-phases (Westbound – 5.4 km and Eastbound - 5.5 km). The project led to the construction of the electromechanical equipment including the traffic and control technology for constructing a new tube (west tube) and the rehabilitation of the existing tube (east tube)

Why EFKON?

19 years of domain expertise and seasoned cross-functional teams

Strong presence in the growth markets (highways and smart cities)

End-to-end traffic management system products

Track record of award-winning successful project executions

EFKON – A Global Leader in Intelligent Traffic Management Systems

EFKON India is a pioneer in bringing innovative products for Intelligent Traffic Management system in India since 2001. It is a wholly-owned subsidiary of STRABAG, a leading infrastructure company with revenue of € 15.67 Billion (2019). EFKON India help clients with end-to-end solutions for:

- Advanced Traffic Management System for Smart Highways and Smart Cities
- Intelligent Revenue Collection and Assurance Systems for Smart Highways and Smart Cities
- Intelligent Transport Management Systems for Logistics and Fleet Operations

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