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Metro Rail infrastructure will certainly reduce the increasing private vehicles and congestion in the city

- Dr. I. P. Gautam
  Managing Director, Ahmedabad Metro
  Exclusive Media Interview

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MD, Kochi Metro
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As on 15.08.2018

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Benefits of fire protection in rail vehicles

Worst-case scenario – fires

Fires can break out in many areas of a traffic system as well as on rail vehicles themselves. Whether they are caused by passengers or merely due to damages in equipment, electronics or locomotives, they can rapidly become devastating.

Early fire detection and promptly automated firefighting responses can minimize vehicle and infrastructure damage considerably or even prevent it entirely. Minimization of damage patterns, more safety for passengers and staff as well as rapid reactivation due to shorter interruptions to operation are just some benefits of these system solutions. In addition, a system on board can have positive effects for insurance costs.

Compensation of construction requirements for modern design

During planning of vehicle concepts or underground passenger transport systems, active firefighting systems enable a high degree of flexibility and individual adaptation. They can for example render fire protection doors superfluous while reducing fireproofing requirements for partition walls. Application-specific design also means retrofit in existing vehicle fleets.

The system allows freedom of design and choice of materials.

Innovative licensing solutions

The number of international regulations and standards has increased considerably over the past few years. At the same time, significant investments have been made in infrastructures. This influences vehicle-specific engineering and material requirements. Whereas this represents a fundamental challenge for fire detection and firefighting systems, they frequently constitute a cost-optimised alternative for meeting such safety specifications.

Individual solutions and know-how

FOGTEC has been developing and supplying active fire protection system solutions for rail-based transport around the globe since many years and is one of the world’s leading suppliers of this technology. Our team possesses unique expertise in the areas of design, application development as well as international certifications and norms for rail vehicles. Constant monitoring by quality management, working in close cooperation with project management and development processes based on requirements of the ISO 9001 standard, enable project progress to be recorded such that it can be viewed and reproduced at any time.

Close, long-term partnerships are a fixed component within a functioning network of partners, suppliers and subcontractors and have enabled us to create an effective global infrastructure.