



## Traffic Management for Mumbai City

**ARS T&TT shall start the operation of Area Traffic Control Centre (ATC) in Mumbai from November 2016, a project awarded by the Municipal Corporation of Greater Mumbai (MCGM). Through this traffic control centre ARS T&TT shall manage the monitoring, audit, calibration and maintenance of the adaptive signalling systems at over 250 traffic intersections and the associated control centre operations for Mumbai Traffic Police and MCGM with the objective of optimizing traffic management in the city of Mumbai.**

The traffic control centre managed by ARS T&TT handles over 250 adaptive traffic signalling systems, video feeds from over 200 surveillance cameras and management of information to several VMS signs across Mumbai city. The contract also entrusts ARS T&TT with the audit and calibration of the adaptive signalling system at the traffic intersections and the service contract for associated equipments such as video walls, servers and communication networks at the control centre to prevent outages.

Further extensions to the contract are expected in the coming years which include scaling up the Area Traffic Control Centre to include another 100 traffic intersections within the city of Mumbai.

ARS T&TT is a trusted partner to MCGM in providing ITS solutions. Other ongoing project collaborations of ARS T&TT with MCGM are the implementation and operation of an ANPR based enforcement system on the Mumbai Eastern Freeway and the implementation of adaptive signalling at 25 new traffic intersections in Mumbai.



The traffic in Mumbai is dynamic. Instead of using pre-defined algorithms based on theoretical traffic volumes, the adaptive signalling system that operates in Mumbai collects various real time parameters such as traffic flow, traffic intensities, traffic queuing and vehicle waiting times at traffic intersections and relays this to the Area Traffic Control Centre. This information is used to dynamically adjust offsets and calibrate signal timings to accommodate changing traffic conditions.

The intelligent self-adapting system helps the Municipal Corporation of Greater Mumbai (MCGM) in maximizing the road usage efficiency and optimizing signal clock times at the signal controlled traffic intersections by forwarding relevant traffic information to the relevant nodes within the network. Operational data and information regarding traffic flow and traffic pattern from the traffic controllers are gathered and sent to databases for analytics and for providing information to the public by updating information on VMS signs.

The traffic monitoring and control centre operated by ARS T&TT helps the road authorities at MCGM to have a unified dashboard view of multiple junctions by combining video surveillance from security cameras with traffic management in a single platform. At the heart of the monitoring and control system is an intuitive GUI-based centralized system that consolidates powerful and flexible traffic management, traffic control and data sharing capabilities. It receives information from all the major traffic intersections, on large video walls, which enables the Area Traffic Control Centre to continually monitor and organize the entire city traffic and to optimize the traffic flow in the city based on various real-time parameters. Trouble spots can be identified and can be tackled directly from the control room. The monitoring and control centre also aids in conducting statistical analysis which helps the road authorities to manage critical traffic bottlenecks effectively. Historical records are backed up at the centre for future references and strategic assessment.

### Organisation

ARS T&TT is an independent private company with a multidisciplinary and international work force of around 200 specialised staff members. Activities include exploitation of ITS systems, traffic engineering services and all related activities including hardware and software development, installation, consulting and maintenance.

### Further enquiries

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