



Intelligent City Traffic Management System for Hyderabad

ARS Traffic & Transport Technology has recently won the contract for implementing an Intelligent City Traffic Management System for Hyderabad. Through this system, ARS T&TT aims at assisting HGCL in taking informed decisions on infrastructure development and traffic management based on traffic and environmental information collected with the help of various sensors deployed across the city.

ARS Traffic & Transport Technology (ARS T&TT) was awarded the contract to implement the Intelligent City Traffic Management System by Hyderabad Growth Corridor Limited (HGCL) in October 2016. The contract entrusts ARS T&TT to commission over 70 Automatic Vehicle Counter-cum-Classifiers systems at 35 locations across the city of Hyderabad for monitoring bi-directional traffic. Close to 60 CCTV cameras shall be deployed across 50 locations for obtaining real-time traffic information as a part of this contract. The information gathered shall be used for providing traffic information to the public and authorities and to update information on 30 VMS signs that are placed along the Outer Ring Road.

It is also within the scope of the project to process the environmental information collected from the meteorological (MET) systems installed along 63 key locations across Hyderabad. In addition to this around 15 Flood Detection (FLD) systems shall also be installed across Hyderabad to continuously monitor the road surface & detect the occurrence of floods. ARS T&TT shall also process the vehicle tracking information from around 1350 buses owned by TSRTC, used as probe vehicles, for detecting the average speed and traffic congestion along the monitored roads.



The integrated city traffic management system from ARS T&TT assimilates data from multiple sources into a single platform to derive valuable traffic information by aggregating and fusing seemingly unrelated data to support informed decision making. The system collates various real time parameters such as traffic flow, traffic intensities and vehicle waiting times at traffic intersections, obtained from the ATCC cameras that are installed over 35 locations across the city and floating car data from the probe vehicles.

This information is sent to the central system at the control centre where critical decisions regarding the traffic management are taken. The video feeds from surveillance cameras installed at around 50 locations are also channelled to the system to aid decision making.

Operational data and information regarding traffic flow, from traffic sensors are gathered and sent to databases for analytics, for providing web-information to the public and for updating VMS signs on the road. Commuters shall benefit from the real time data updates such as congestion alerts on routes ahead, travel time on each road and alternate route suggestions.

Hyderabad has many roads that get flooded during the rains. This often poses a threat to public safety and is a major cause of traffic congestions. The city traffic management system offered by ARS T&TT for HGCL incorporates a Flood Detection System (FLD) to reduce the traffic related adversities due to floods. During floods, FLD system identifies the trouble spots and helps in re-routing the traffic accordingly which ensures safety of commuters as well as smooth flow of traffic. Similarly the MET system measures the real-time climatic conditions such as atmospheric pressure, humidity, temperature, etc. which shall help HGCL to address the effect of adverse climatic conditions on the traffic in Hyderabad city effectively.

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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