



Vehicle Tracking System & Passenger Information System
for
Chandigarh Transport Undertaking

CLIENT: Chandigarh Transport Undertaking

LOCATION: Chandigarh, India

PROBLEM DOCUMENT:

- Facing challenges in the form of logistical.
- Mismanagement of the drivers.
- Manhandling of the GPS device.
- Timely allotment of buses for installation of the GPS devices.
- Timely allotment of Bus Queue Shelters for installation of PIS.
- Getting timely approvals from different stakeholders.
- Connectivity issue – Whenever bus goes on hilly terrain, there is a connectivity problem.

BRIEF SCOPE OF WORK:

To install Vehicle Tracking System & Passenger Information system on 100 buses and 50 Bus Shelter Queues on Chandigarh Transport Undertaking Buses and to develop a web and GPS based VTMS (Vehicle Tracking & Management System) using state of the art information system for locating, monitoring and managing the buses with a view to improve their route and output monitoring, improving fuel efficiency and ensure that the quality and timeliness of buses is improved.

TECHNOLOGY USED:

- GPS based Vehicle Tracking system
- Open Source GIS-MIS based Vehicle Tracking System

BENEFITS OF THE PROJECT:

- Web enabled Map based locating of positions of Vehicles with customized layer of other key locations
- Providing complete audit trail on the movement of Vehicles
- All the devices will communicate with central server directly through GPRS, making the system more secure while providing information in real time
- MIS Reports and Alerts which facilitate monitoring of drivers' behavior, unscheduled stops, long breaks, over-speed, non-stoppage of the truck at the scheduled stoppage point and route deviation, etc.
- Event logging (viz. start of journey, end of journey, emergency, breakdown, etc.) with time stamp and providing information about routes traversed by each Vehicle
- Data backup of at least six months historical data with maps
- Facility for management in offline mode of buses
- Establishing text messaging with drivers of Vehicles issuing need based instructions

- Collecting data that would provide detailed and exception reports in order to analyze and improve the system
- Helping in route planning and Route programming