

Smart Traffic Control Solution using RFID

Most of the metro cities in India are suffering from a common problem: the Traffic Control system. Govt. has made efforts to resolve this problem and spends huge amounts of Money still not that much control over traffic. One of the common reasons behind the problem is checking Traffic rules by stopping vehicles through police barricades. Then police stopping randomly vehicles and ask about the common documents. This process is the time taken and can be the big reason for the traffic jam in metro cities. [RFID](#) Traffic control solution helps trace and track those vehicles that have no proper documents. It can automatically generate a Challan or notice to the owner of the vehicle.

Objective

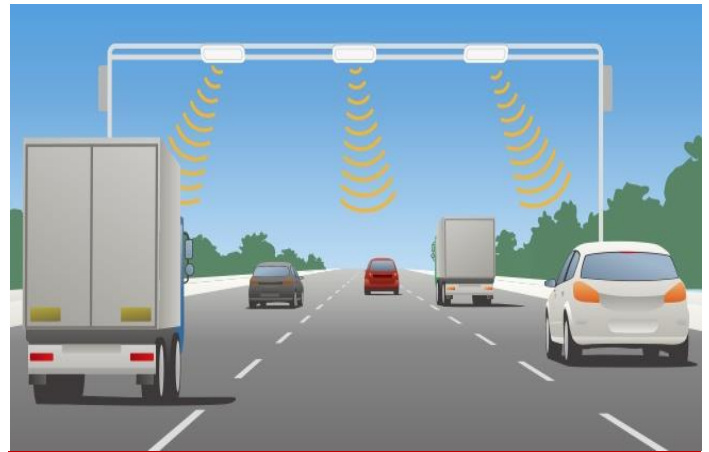
- To automate the tracking and tracing of Vehicles
- To achieve accuracy in reporting
- To provide smoothening in traffic.
- To collect vehicle data by their document updates
- The owner of the vehicle can be up to date regarding documentation

Challenges

- Reduce human intervention.
- Information Visibility.
- Unnecessary stopping randomly vehicle

Result

- Minimize human error.
- Traffic barricades are not required
- Automatic identification of Vehicle data.
- Online Notice generates
- Traffic control



Solution

[Intellistride](#) proposed the use of passive RFID technology for an automated Traffic control solution (TCS RFID).by implementation of RFID devices over a Road 150m before the checking point. The policeman will get the details of upcoming vehicles on provided Tablet or mobile through an android application. A policeman has the right to stop that vehicle or generate the Notice directly if documentation is not proper. The vehicle owner also can update his documents by the same application through the Notification of expiring documents.

Hardware Components

- RRU 4500 Reader
- WRA 30 Antennas
- ANPR CCTV Cameras
- Point to Point device or Wired Ethernet connectivity