**INTELLIGENCE CHALLAN SYSTEM FOR ON ROAD SIGNAL VIOLATION**

**AIM:**

The aim of the project is to develop the automatic challan system that can check for signal break by any vehicle.

**PURPOSE:**

The purpose of the project is to send the challan automatically to the owner of vehicle whenever they don’t follow the traffic rules.

**ON ROAD SECTION:**

**MICRO**

**CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**LCD DISPLAY**

**(16 X 2 LINES)**

**MAX**

**232**

**RFID READER**

**GSM**

**TRAFFIC SIGNALS**

**Power Supply:**

**STEP DOWN**

**TRANSFORMER**

**BRIDGE**

**RECTIFIER**

**FILTER**

**CIRCUIT**

**REGULATOR SECTION**

**DESCRIPTION:**

The short message service (SMS) technology is one of the most stable mobile technologies around. Most of us carry mobile phones with SMS facilities and can be used for our several purposes. Short Message Service (SMS) is defined as a text-based service that enables characters to be sent from one mobile phone to another. In a similar vein to email, messages are stored and forwarded at an SMS centre, allowing messages to be retrieved later if you are not immediately available to receive them. Unlike voice calls, SMS messages travel over the mobile network’s channel.

Here Basic idea of our project is to develop the automatic challan system that can check for signal break by any vehicle. The RFID reader reads the tag information of the vehicle like vehicle no. and sends the information to the controller. Controller will send an SMS to the vehicles owner through GSM technology and simultaneously information is given on the site itself through LCD.

**HARDWARE COMPONETS:**

1. Microcontroller (AT89S52)
2. LCD Display (16x2 lines)
3. GSM Modem
4. MAX-232
5. Power Supply
6. RFID READER & tags

**SOFTWARE:**

1. Kiel U vision
2. Express PCB
3. ISP

**RESULT:**

Hence by this project we can control the traffic violations like driving the vehicle even there is red signal.