**REMOTE ACCIDENT REPORT SYSTEM FOR HIGHWAYS USING RF**

**AIM:**

The aim of this project is to monitor the accidents which occur on the highways using RF technology**.**

**PURPOSE:**

The purpose of this project is to report the monitoring section whenever accident occurs on the highways.

**VEHICLE SECTION:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**HT 12E ENCODER**

**ACCIDENT CKT (SWITCH CLAMP)**

**RF TRANSMITTER**

**H-BRIDGE**

**MOTORS**

**MONITOR SECTION:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**HT 12D DECODER**

**RF RECEIVER**

**LCD**

**BUZZER**

**Power Supply:**

**Step Down**

**Transformer**

**Bridge**

**Rectifier**

**Filter**

**Circuit**

**Regulator**

**Section**

**DESCRIPTION:**

Accidents which occur on the highways can be monitored using this project. And the information of occurrence of the accident will be transmitted to the control section wirelessly using RF communication. In the vehicle section, an accident switch is placed, whenever the accident occurs, the information is transmitted to the control section. The vehicle section is having a RF transmitter in it, by which information is passed wirelessly.

In the monitoring section RF receiver module is placed which receives the data from the RF Transmitter. A buzzer is placed in this section and it will be on whenever accident occurs and also displayed in the LCD.

**HARDWARE COMPONENTS:**

1. Microcontroller(AT89S52)
2. LCD Display(16\*2)
3. RF Transmitter
4. RF Receiver
5. Power Supply
6. BUZZER
7. Accident Circuit

**SOFTWARE TOOLS:**

* Keil µ-vision
* ISP
* Express PCB
* EMBEDDED C

**RESULT:**

This project is helpful to detect the occurrence of accidents on the highways.