**RTA SYSTEM FOR VEHICLE POLLUTION**

**AIM:**

The aim of this project is to design a system which identifies the vehicle causing pollution.

**PURPOSE:**

The purpose of the project is to detect CO (gas) exhausted from the vehicle.

**BLOCK DIAGRAM:**

**MICRO CONTROLLER**

**AT89S52**

**POWER SUPPLY**

**CO**

**SENSOR**

**BUZZER**

**LCD**

**IGNITION KEY**

**MOTOR**

**ADC 0804**

**DRIVER CIRCUIT**

**Power Supply:**

**Step Down**

**Transformer**

**Bridge**

**Rectifier**

**Filter**

**Circuit**

**Regulator section**

**DESCRIPTION:**

The project “Caution System for Vehicle pollution” itself indicates whenever the CO sensor finds percentage of smoke in the vehicle is high or due to any leakage of gases or any fire accidents. It will send the information to the controller then controller will indicate through the buzzer. Along with the buzzer indication here we are interfacing the motor and ignition key to stop the vehicle immediately after getting the high pollution for the particular vehicle. The values will be displayed in LCD. Again the vehicle will start only after the pollution reaches the normal status as specified by the microcontroller programming.

By this way we can take the prevention steps before any occurrence of major fire accidents and we can avoid the human losses and financial losses.

**HARDWARE COMPONENTS:**

* Microcontroller(AT89S52)
* CO sensor
* ADC 0804
* Motor
* Ignition switch
* LCD
* Buzzer
* Power supply

**SOFTWARE TOOLS:**

* Keil
* Embedded C
* Express PCB

**APPLICATIONS:**

* Used by RTA’s

**RESULT:**

According to this project we can implement system which intimates the CO exhausted from vehicle. By using this project, we can design a system to provide alert system for pollution of vehicle.