**ALCOHOL DETECTOR SYSTEM FOR SURVELLIANCE COPS ON HIGHWAYS**

**DESCRIPTION:**

The main aim of the project is to design an alcoholic detector system to detect a person whether he is conscious or not by the alcoholic consumption which is very much useful for surveillance cops on high ways and to prevent the accidents.

The 8051 microcontroller is the heart of this project. The project is designed in such a way that the controller is interfaced with alcohol sensor through digital lines. It gives digital output according to physical parameter existence. This alcohol sensor built with operational amplifier. When the sensor detects the presence of alcohol the corresponding signal will be passed to the microcontroller, we also interface an LCD to the controller which is used to display the status of the system. A buzzer is also provided in our project which provides audio alarm output.

This project uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Full wave bridge rectifier is used to rectify the ac output of secondary of 230/12V step down transformer.

**TECHNICAL SPECIFICATIONS:**

**HARDWARE:**

Micro controller : AT89x series

Crystal : 11.0592 MHz

LCD : HD44780

Alcohol sensor

Buzzer

Power supply

Transformer : 12V step down

Filter : 1000uf/25V

Voltage Regulator : 7805, 7812

**SOFTWARE:**

Keil IDE

UC flash

Proteus

**APPLICATIONS:**

* Highway patrol
* Interrogation

**BLOCK DIAGRAM:**

Buzzer

Power Supply

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Alcoholic

Sensor

16X2

LCD

**POWER SUPPLY BLOCKDIAGRAM:**

Step down Transformer

Filter

Regulator

Output

Bridge Rectifier