**ELECTRONIC VOTING MACHINE USING 8051 MICRO-CONTROLLER**

**DESCRIPTION:**

The project is aimed to design an electronic voting machine using an 8051 micro controller, which is a simple and inexpensive system.

The project is designed in such a way that we use three switches which are considered as three parties, and they are interfaced to the controller. A 16x2 LCD is provided here to display the counts of each and every party. When-ever the voter presses and releases the corresponding party’s switch, the count corresponding to that party will be incremented and that will be updated on the LCD. The number of votes gained by each of these three parties will be displayed on the LCD as shown in block diagram. We can use this project to count from 000 to 999 for each party. In this project voting to more one party at a time is restricted.

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

Switches

Power supply

Transformer : 12V step down

Filter : 1000uf/25V

Voltage Regulator : 7805, 7812

**SOFTWARE:**

Keil IDE

UC flash

Proteus

**APPLICATIONS:**

* Optimized power utilization
* Shopping malls
* Seminar halls

**BLOCK DIAGRAM:**

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Power Supply

16X2

LCD

Switch 1

Switch 2

Switch 3

**POWER SUPPLY BLOCKDIAGRAM:**

Step down Transformer

Filter

Regulator

Output

Bridge Rectifier