**TRAFFIC CONTROL SYSTEM WITH TIMMER**

**DESCRIPTION:**

This project is on “Microcontroller Based Traffic Control System”. This is a kind of Automation system, which helps to control intelligence traffic management by static time scheduling. The aim of the Microcontroller based traffic management system is built up an intelligence management system. After assign a microcontroller generate its code for blink specific LED, built a circuit design into simulation software, loading this code into microcontroller and simulate it. If it is work properly than we burn a specific microcontroller and make a model of road and interface with the circuit board. If it is worked appropriately than we can implement this system. The traffic control is a system which ensures the safety of pedestrian's from accident and maintained the direction of vehicles on the road. This is also save the life of general peoples. Bangladesh want an automatic traffic management system because it’s heavy populations and heavy traffic jam. Our proposed work will manage the existing traffic system to follow an automatic real-time situation regarding situation based system. It is a very simple to control the traffic light uses schedule timer for each phase but real time image processing management is too difficult but we able to do microcontroller based traffic control system . Traffic control problem is a big problem in our country at present and we hope this real-time technique will to solve the problem. After implementation of all functions, the system is tested in different stages and it works successfully as Traffic Control System.

This project uses regulated 5V, 500mA power supply. Unregulated 12V DC is used for geared motor. 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

RGB LED’s

**POWER SUPPLY**

Transformer : 12V step down

Filter : 1000uf/25V

Voltage Regulator : 7805, 7812

**SOFTWARE:**

Keil IDE

UC flash

Proteus

**APPLICATIONS:**

* Highways
* City junctions

**BLOCK DIAGRAM:**

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Power Supply

RED LED’s

GREEN LED’s

BLUE LED’s

**POWER SUPPLY BLOCKDIAGRAM:**

Step down Transformer

Filter

Regulator

Output

Bridge Rectifier