ADVANCE TRAFFIC CONTROL FOR AN EMERGENCY VEHICLE

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Abstract - *The monitoring and control of city traffic is become a major problem in many country's. With the ever increasing number of vehicles on the road Traffic monitoring authority has to find new method of overcome such a problem. One way to improve traffic flow and safety of the current transportation system is to apply automation and intelligent control methods infrastructure and vehicles.*

*KeyWords***:** Control System, Relay, IR Transmitter, IR Receiver, Traffic Signal.

1.INTRODUCTION

In this paper is designed for the cities with heavy traffic. E.g.: In some cities like Ahmadabad, Surat, Rajkot, Vadodara, etc. the roads are full jammed every time. Most of the time the traffic will at least for 200meters .In this distance the traffics police can"t hear the siren form the emergency vehicle, so he ignores this. Then the emergency vehicle has to wait till the traffic is left. Some times to leave the traffic it takes at least 30 minutes .So by this time anything can happen to the patient, So this project avoids these disadvantages. According to this project if any emergency vehicle comes near to any traffic post the traffic signals automatically stop the signals and give green signal for this emergency vehicle**[1].**

The high density of vehicle in metro is also responsible for the rise in the number of road accidents. Traffic jams is another area where precious man hours get wasted and it anyone is heading for a hospital in case of an emergency, then the patient can only look up to god for mercy**[2]**.

The rising the rush hours has left the traffic policeman gasping for a whiff of fresh air they are badly affected of them are either suffering from some nose or throat problem or have problem of baring eyes, dizziness long infection etc..

In Delhi, cases of road rage are common and the angry vehicle owner whose vehicle got damages killed many of the people involved in such duels.

Traffic jams result in waste in waste of petrol and other fuel over which the government is already in a fix thanks to its rising prices in the international market.

Rising vehicular traffic is also being held responsible for global warning. Pollution due to automobile awareness, have helped emissions an ever-growing problem in major cities. Emissions standers, as well as increase environmental awareness, have helped to reduce this problem, but it still is more of a concern in congestion and crowded city environment than in rural setting.

Wear and tear on vehicle as a result of belling in traffic and frequent acceleration and breaking, leading to more frequent repairs and replacement. Blocked traffic may interfere with the passage of emergency vehicle travelling to their destination where they are urgently needed**[3]**.

Table 1:- Comparisons of various device		
Parameters	**RFID**	**INFRARED**
SYSTEM COST	EXPENSIVE	LOW COST
UNDERSTANDING THE TECH.	DIFFICULT	SIMPLE
POWER REQUIREMENTS	HIGH	LOW

2. SYSTEM OVERVIEW

The main aim of this paper is develop an intelligent signal, which will provide path to emergency vehicle. The main effect of heavy traffic matter is increased time wasting of the people on the road. This project is developing an intelligent signal, which will provide in path without any problem in heavy traffic. The main aim in designed and developing of the intelligent traffic signals is consist of a signal that controls the selection of traffic movement in according to the varying demands of traffic signal as registered to the controlling unit by IR receiver and IR transmitter.
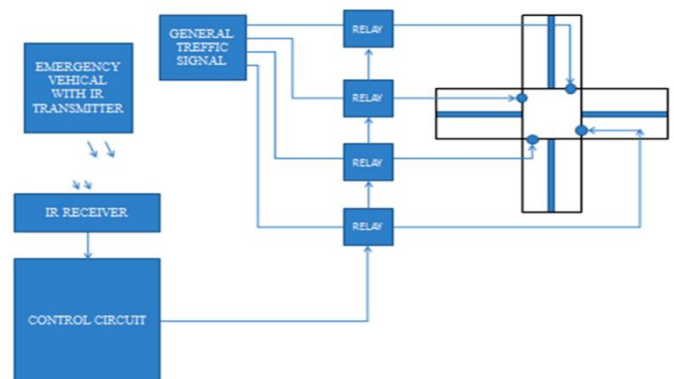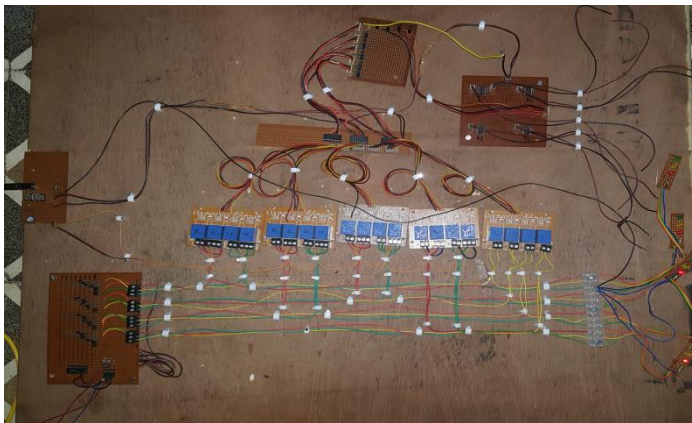

FIG.1: BLOCK DIAGRAM

FIG. 2: HARDWARE SECTION

3. CONCLUSIONS

This project is use to easily provide clear way to an emergency vehicle from heavy traffic. Results include the successful operation of the intelligent traffic light control and monitoring system. The IR sensor with IR transmitter is placed at a gap. Traffic light is placed ahead of IR sensor at a distance so that decision taken by controller to control traffic light can help in reducing the congestion at traffic light.

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