



**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
**STUDENT PROJECT PROPOSAL**



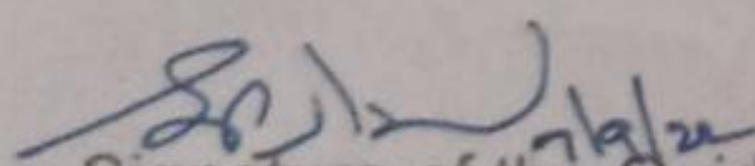
1. Name of the Student (s) :

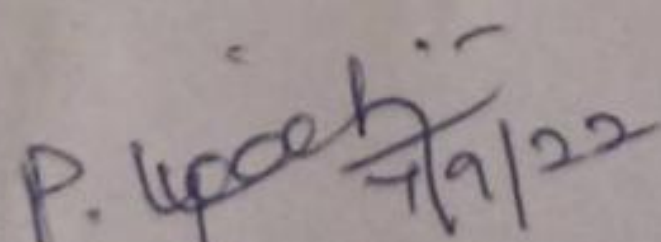
S.N O	Name of the Student	E-Mail ID	Phone No.
1	SONIKA.K.M	sonikasonika476@gmail.com	9360118334
2	BALAHARI KRISHNA.V	bala30348@gmail.com	9361353906
3	NAVEEN KUMAR.M	naveenkumar48593@gmail.com	9092036284
4	BALAJI.R	balaji05122001@gmail.com	9361583025

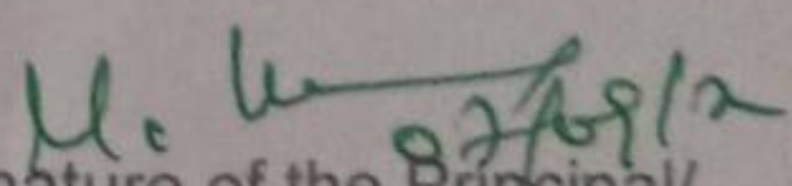
2. Name of the Guide : Dr.S.PREMALATHA  
Department / Designation : ELECTRONICS AND COMMUNICATION ENGINEERING  
Institutional Address : K S R Institute for Engineering and Technology, KSR  
Kalvi Nagar Thrichengode-637215,TamilNadu,India.  
Phone No. & Mobile No. : 9942329398
3. Project Title : TRAFFIC SIGNAL CONTROLLER DURING PEAK  
HOURS
4. Sector in which your Project  
proposal is to be Considered : ELECTRONICS AND COMMUNICATION ENGINEERING
5. Project Details : 1. Introduction  
2.Objectives  
3. Methodology  
4.Workplan  
5.Budget  
6.Conclusion
6. Has a similar project been carried : No  
out in your college / elsewhere? If  
so furnish details of the previous  
project and highlight the  
improvements suggested in the  
present one

**CERTIFICATE**

This is to certify that SONIKA.K.M (731619106039), BALAHARI KRISHNA.V(731619106003), NAVEEN KUMAR.M (731619106021) ,BALAJI.R (731619106004) is a Bonafide final year student of P.G. Science / U.G. Engineering / P.G. Professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of May 2023.

  
Signature of the Guide

  
Signature of the HOD

  
Signature of the Principal/  
Head of the Institution  
PRINCIPAL  
(with seal)  
K S R INSTITUTE FOR  
ENGINEERING AND TECHNOLOGY,  
K S R KALVI NAGAR,  
TIRUCHENGODE-637 215,  
NAMAKKAL Dt, TAMIL NADU.



## 1.INTRODUCTION:

The traffic management in the cities requires proper plans for management traffic,because there is a huge traffic problem there.The roads are lesser and vehicles are more.The stream of traffic is maintained because it's directly affect the country personals.Due to the increase in population and modernization,The traffic pressure has increased in every country.

## 2.OBJECTIVE:

There are many accidents and other types of fatal incidents that are caused by the improper management.It is very difficult to control the traffic on cities because there are busy roads and any blockage can cause loss of time and people don't want to waste their precious time.The parking areas along the roads are made for covering the extra traffic in case of road blockage due to repair procedure or any accident

## 3.METHODOLOGY

To control the traffic during peak hours,we planned to calculate density of active vehicles in particular distance using sensor.

The sensor senses the number of active vehicles in that particular distance.If the density of active vehicles in that particular distance in any side of the road is maximum than the other sides, then the vehicles in that particular side will permitted with green signal.

The IR sensor senses the sound of the ambulances if the ambulances was detected in the particular lane means that lane was detected as the first priority and clear the vehicles first in the particular

## 4.WORK PLAN

MONTHS	TIME LIMIT	PLAN OF ACTION
1	SEPT-OCT	DATA COLLECTION
2	OCT-NOV	PROBLEM ANALYSIS
3	NOV-DEC	SOLUTION
4	DEC-JAN	PROTOTYPE
5	JAN-FEB	WORKING MODEL



## 5.BUDGET

S.NO	REQUIREMENT	ESTIMATION COST
1	ARDUINO BOARD	900
2	TRANSISTOR/RECEIVER	100
3	IR SENSOR	100
4	SOUND DECTION SENSOR	200
5	WIRELESS SENSOR NODE	2,5000
6	TRAFFIC CONTROL	1,500
7	OTHER REQUIREMENTS	1000
TOTAL		6,300

### CONCLUSION:

By implementing this method we should overcome the traffic jam, and we go to the places at the correct time. Due this we can avoid the accidents and the traffic managements.