

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-

590 018



**A MICRO PROJECT REPORT ON
“Home And Industrial Safety Using Fire And Gas Detection
System”**

Submitted By,

Pavan Kumar H R	4AL20ME018
Omkar Panchakattimath	4AL20CS087
Madhu M	4AL20IS023
Sushma K N	4AL20IS053

Under the Guidance of

**Ms. Kavya Saliyan
Department of Civil Engineering**



**DEPARTMENT OF BASIC SCIENCES
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA**

2020-2021

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. -574225

KARNATAKA



DEPARTMENT OF BASIC SCIENCES

CERTIFICATE

This is to certify that the Micro-Project entitled “Home And Industrial Safety Using Fire And Gas Detection System” has been Successfully Completed by

Pavan Kumar H R

4AL20ME018

Omkar Panchakattimath

4AL20CS087


Madhu M


4AL20IS023

Sushma K N

4AL20IS053

The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology**, affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.


Ms. Kavya Saliyan
Mini Project Guide


Dr. Ramaprasad A.T,
HOD Physics

H. O. D.

Dept. Of Physics

Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

ABSTRACT

Gas leakages and fire outbreaks in industries as well as houses have lead to wide destruction and losses in the past. Gas leakages and fire outbreaks both spread widely and lead to even greater loss of life and property if proper action is not taken on time. So here we propose a system that detects gas as well as fire outbreaks and alert us accordingly so that proper action may be taken to control it. For this we system we use a gas sensor along with a temperature sensor interfaced to the microcontroller. The microcontroller is also in turn connected to an LCD screen and a buzzer to show the alerting part. As soon as a fire starts the rise in temperature is recorded by out temperature sensor. When temperature rises beyond a certain limit it sends a signal to the microcontroller the microcontroller processes the signal and displays the fire alert status on LCD screen and also sounds the buzzer. Now the gas monitor too constantly monitors for any gas leakage. As soon as any gas is detected at the sensor it sends a signal to the microcontroller. The microcontroller now processes this data and sounds the buzzer and also displays the gas alert message on the LCD screen.