



# SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

## NAAC DOCUMENTS

### QUALITY INDICATOR FRAME WORK

#### CRITERION - 3

### RESEARCH, INNOVATION & EXTENSIONS

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL

### SASURIE COLLEGE OF ENGINEERING



**Criteria3**

**Research, Innovations and Extension**

**110**

## **Key Indicator-3.1 Resource Mobilization for Research**

**3.1.1. Endowments in the institution during the last five years (INR in Lakhs)**

### **SUPPORTING DOCUMENTS for Endowment**

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HIDEL POWER PRODUCTS PVT.LTD

41/56, SAMUNDIPURAM, GANDHI  
NAGAR, SALEM - 638 007.

PHONE NO: 90548 56392  
MAIL: hidelpp@gmail.com

Date: 08.02.2022

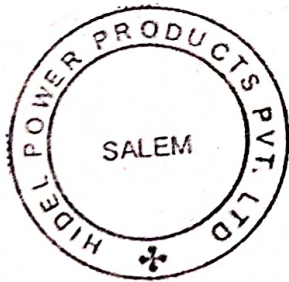
TO

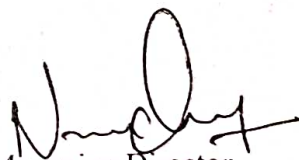
The Principal,  
Sasurie College of Engineering,  
Vijayamangalam - 638 056.

Dear Sir/Madam,

With the previous consultancy services offered by the Department of Electrical and Electronics Engineering in the domain of Touch Free Temperature Monitoring System, we would like to continue with the same. We kindly request the consulting team to reach out to us for any additional information.

Thanks and Regards,



  
Managing Director  
S. Naresh Chandra

  
Dr. M. VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).



Date: 16.02.2022

To

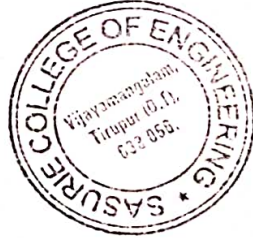
Managing Director,  
Hidel Power Products Pvt.Ltd,  
41/56, Samundipuram,  
Gandhi Nagar,  
Salem - 638 007.

Respected Sir/Madam,

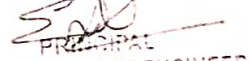
Greetings from Sasurie College of Engineering!

We are delighted to extend our consultancy activities for Touch Free Temperature Monitoring System for your clients. Our faculty from Electrical and Electronics Engineering Sasurie College of Engineering is designated to complete the task promptly. The cost for the proposed work estimation is approximately Rs. 100000. We await your favourable response.

Thanking You



With warm regards

  
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).



 **Dr.M.VIJAYAKUMAR** ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).





## HIDEL POWER PRODUCTS PVT.LTD

PHONE NO: 90548 56392  
EMAIL: hidelpp@gmail.com

41/56, SAMUNDIPURAM, GANDHI  
NAGAR, SALEM - 638 007

### SANCTION LETTER

Date: 20.02.2022

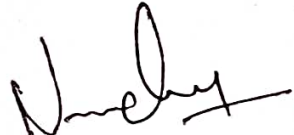
To

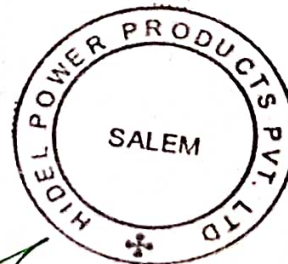
The Principal,  
Sasurie College of Engineering,  
Vijayamangalam - 638 056.

Respected Sir/Madam

We are satisfied with your quotation for the estimation of Touch Free Temperature Monitoring System and its quantity for our clients and on negotiation we grant **Rs. 95000** towards the consultancy work on submission of the proposed work report within 54 days.

Thanks and Regards,

  
Managing Director  
S. Naresh Chandra



*No* →  
**Dr.M.VIJAYAKUMAR** ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).

Date: 11.04.2022

To

Managing Director,  
Hidel Power Products Pvt.Ltd,  
41/56, Samundipuram,  
Gandhi Nagar,  
Salem – 638 007.

Respected Sir/Madam,

Sub: Completion of Consultancy Project - Reg.

Ref: Letter dated on 20.02.2022..

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Greetings from Sasurie College of Engineering !



We are glad to let you know that the project " Design And Development Of Touch Free Temperature Monitoring System" has been successfully finished. We are submitting the project work document along with this.

Looking forward your response,

With warm regards,

  
PRINCIPAL  
 SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).



  
Dr.M.VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
 SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).

**PRODUCT DEVELOPMENT CONSULTANCY WORK REPORT**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Design And Development Of Touch Free Temperature Monitoring System**

**SUBMITTED TO**

Managing Director,

Hidel Power Products Pvt.Ltd,

41/56, Samundipuram,

Gandhi Nagar,

Salem – 638 007.

**DELIVERY DATE: 11.04.2022**



**Dr.M.VIJAYAKUMAR ME., Ph.D.,**  
PRINCIPAL



**SASURIE COLLEGE OF ENGINEERING,**  
Vijayamangalam - 638 056, Tirupur (Dt).

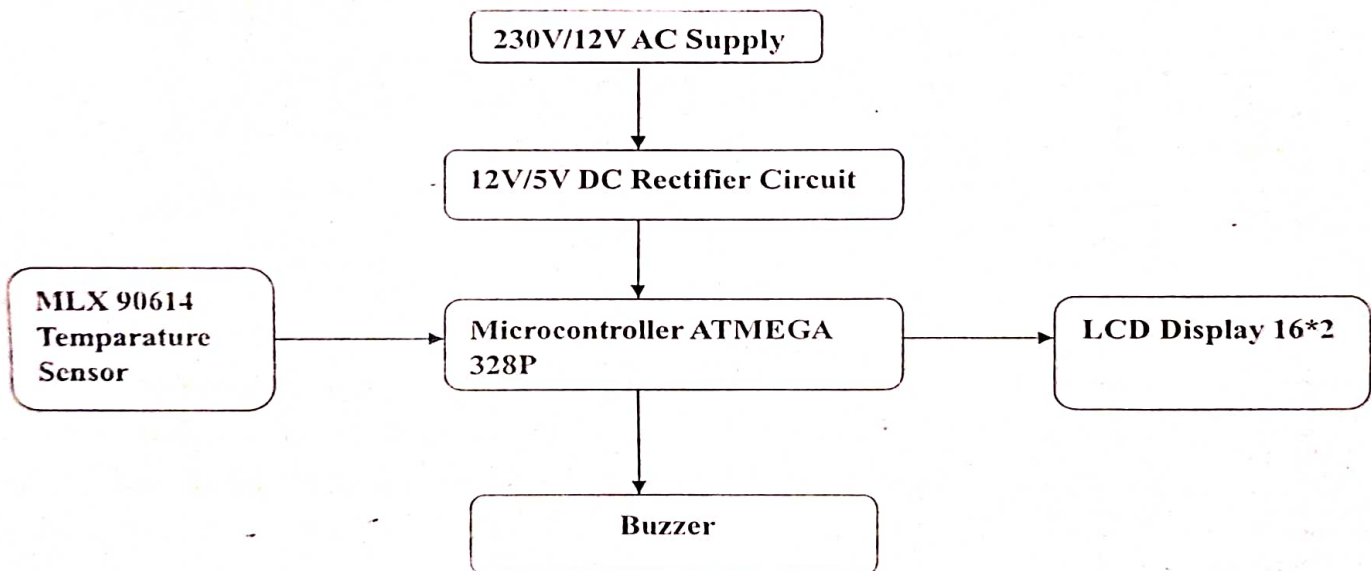
## CONSULTANCY PROJECT REPORT

### Touch Free Temperature Monitoring System

#### Objective

Due to the fact that corona is an infectious disease that is threatening the people of the world, in this difficult period, this device called Touch free temperature monitoring system is very important to detect the body temperature without any physical contact with the person. This device is very useful where public gathering is huge like Government offices, Transportation facility centres, Hospitals, Educational Institutions, Factories etc...

#### Circuit Layout



**Software Requirement:** Arduino Uno IDE

#### Hardware Requirement:

1. Arduino Uno - Microcontroller ATMEGA 328p
2. MLX 90614
3. Step Down transformer
4. Rectifier
5. 16\*2 LCD Display

  
**Dr. M. VIJAYAKUMAR ME., Ph.D.,**  
PRINCIPAL  
**SASURIE COLLEGE OF ENGINEERING,**  
Vijayamangalam - 638 056, Tirupur (Dt).



## Description

The touch-free human body temperature monitoring system utilizes an Arduino Uno microcontroller in conjunction with the MLX90614 temperature sensor to provide accurate and contactless temperature readings. This innovative solution ensures hygiene and safety by eliminating the need for physical contact, making it ideal for health screenings in public spaces. The MLX90614 sensor employs infrared technology to measure body temperature with precision and reliability.

The Arduino Uno processes the data and can trigger alarms or display temperature readings on a screen. This system is crucial for pandemic control, allowing non-invasive temperature checks while minimizing the risk of infection transmission.

## Cost Estimation

Sl.NO	Description	Cost
1	Arduino Uno-Microcontroller ATMEGA 328p	1500
2	MLX 90614	600
3	Step Down transformer	1200
4	Rectifier	1000
5	16*2 LCD Display	400
	Design Cost	300
	<b>Total</b>	<b>5000</b>

Cost Per Product: Rs. 5000

Number of Products Delivered : 19

Total Cost of the Project: Rs.95000

Sanctioned Grant: Rs. 95000

*K. R. Smita*

PROJECT INVESTIGATOR

*S. S. S.*

PRINCIPAL



PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 055, Tirupur (Dt).

*M. V. Vijayakumar*

Dr.M.VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL  
SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 055, Tirupur (Dt).



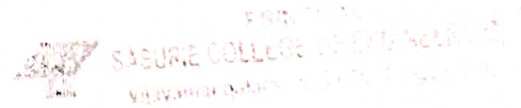
Date: 12.01.2022

### UTILIZATION CERTIFICATE

Certified that the amount of rupees Rs. 95000 (Ninety five Thousand only) was sanctioned during the academic year (2021-2022), in favour of Department of Electrical and Electronics Engineering Sasurie College of Engineering, has been fully utilized for supply of Touch Free Temperature Monitoring System. The purpose of amount sanctioned has been fulfilled and delivered as per conditions of grant were satisfied

PROJECT INVESTIGATOR

PRINCIPAL



Dr. M. VIJAYAKUMAR ME., Ph.D.,  
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,  
Vijayamangalam - 638 056, Tirupur (Dt).