



SRI MITTAPALLI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada
ISO 9001:2015 Certified Institution and Accredited By NAAC NH-16,
Tummalapalem, Guntur-522233, A.P.

Date: 13-03-2020

To
The SECRETARY,
Sri Mittapalli College of Engineering,
Tummalapalem

Sir,

Sub: Requested for Sanction of budget Rs. 3,85,775.00/- Reg.

This is to bring to your kind notice that, the final year students would like to undertake on research projects in the academic year 2019-20 in our college on this note I request you sanction the budget Rs. 3,85,775.00/- under the Research and Development fund. As per our research policy.

This is to bring to your kind notice that the following project proposals are received from faculty & students. The detained budget proposals are given below.

FACULTY

| S.No | Name of the Investigators | Department | Name of the project | Estimated cost |
|-------|---|------------|--|----------------|
| 1 | DR.N. RAJESHA & DR.V. SREEKANTH | ECE | IOT based Smart Agricultural System | 67,324.00 |
| 2 | Mr. DR SIKHAKOLLI GOPI KRISHNA & Mr. DEVVI HARI KRISHNA | CSE | IOT BASED FIRE AND SMOKE DETECTING SYSTEM | 66,234.00 |
| 3 | Mr. POKURI PRAKASH & Mr. KALAVAKOLLU GOPI | CSE | IOT BASED AUTOMATIC ENGINE LOCKING BASED ON ALCOHOL DETECTION | 62,351.00 |
| 4 | Dr. SHAIK MOHAMMAD RAFI & Mrs. SD.RESHMA | CSE | BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM | 63,245.00 |
| 5 | Mrs. CHINKA SRIKANYA & Mr. BOMMALA SRIVALLI | ECE | IOT BASED LPG GAS LEAK AGE DETECTION AND CONTROLLING SYSTEM | 65,321.00 |
| Total | | | | 3,24,475.00 |

STUDENTS

Dept. of CSE:

| S.No | Name Of The Project Guide | Name Of Project | Estimated cost |
|-------|---------------------------|---|----------------|
| 1 | YAMPATI HARIKA | Privacy Protection for Wireless Medical Sensor Data | 21,000.00 |
| 2 | SOMU SATISH KUMAR | HUMAN TRAJECTORY PREDICTION | 22,000.00 |
| Total | | | 43,000.00 |

Dept. of Civil:

| S.No | Name Of The Project Guide | Name Of Project | Estimated cost |
|-------|---------------------------|--|----------------|
| 1 | AKKALA PAVANI | DESIGN OF R.C.C. OVER HEAD TANK (2020) | 3300.00 |
| 2 | Y ASHOK | WAYS OF EROSION CONTROL ON HIGH WAY CONSTRUCTION | 6200.00 |
| 3 | D KISHORE | THE SIZE OF AGGREGATE ON SELF COMPACTING CONCRETE OF M70 GRADE | 7450.00 |
| Total | | | 18300.00 |

Total amount for Faculty Projects: 3,24,475.00/-

Total amount for Students Projects: 61,300.00/-

Thanking you,

Yours faithfully,
PRINCIPAL

(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

**IN HOUSE R&D PROJECT
ON
IOT BASED LPG GAS LEAK AGE DETECTION AND
CONTROLLING SYSTEM**

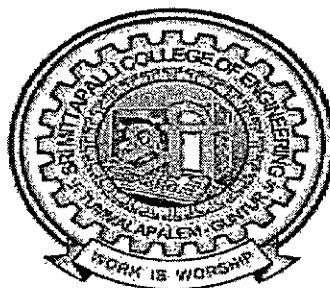
Submitted

by

Mrs. CHINKA SRIKANYA
Assistant Professor ECE

Mr. BOMMALA SRIVALLI
Assistant Professor ECE

SRI MITTAPALLI COLLEGE OF ENGINEERING



(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)
TUMMALAPALEM, NH-16, GUNTUR(Dist),

SUBMISSION OF PROPOSAL FOR In- House R&D Project

Date: 12-08-2019

PART-A

1. Board Area : Engineering and Technology
2. Area of Specialization : IOT
3. Title of the project : IOT BASED LPG GAS LEAKAGE DETECTION AND CONTROLLING SYSTEM
4. Duration : 1 Year

5. Principal Investigator

Name : CHINKA SRIKANYA

Gender : FEMALE

Qualification : MTech

Designation : Assistant professor and Mentor of CSE

Office : CHINKA SRIKANYA

Assistant Professor and Mentor of CSE

Sri Mittapalli College of Engineering, Tummalapalem,

Guntur(Dist), Andhra Pradesh- 522233

6. Co-Investigator

Name : BOMMALA SRIVALLI

Gender : FEMALE

Qualification : MTech

Designation : Assistant professor and Mentor of CSE

Office : BOMMALA SRIVALLI

Assistant Professor and Mentor of CSE

Sri Mittapalli College of Engineering, Tummalapalem,
Guntur(Dist), Andhra Pradesh- 522233

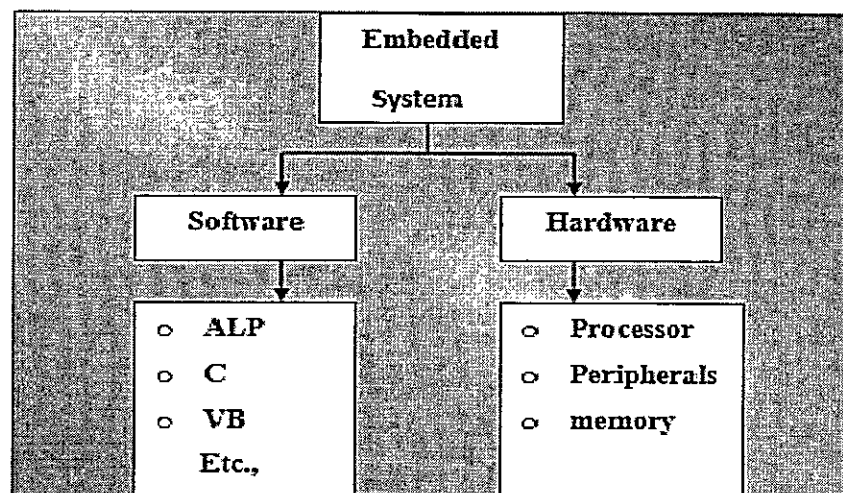
1. Proposed Research work

- (i) **Project Title:** IOT BASED LPG GAS LEAKAGE DETECTION AND CONTROLLING SYSTEM

Introduction:

Embedded systems are self-contained programs that are embedded within a piece of hardware. Whereas a regular computer has many different applications and software that can be applied to various tasks, embedded systems are usually set to a specific task that cannot be altered without physically manipulating the circuitry. Another way to think of an embedded system is as a computer system that is created with optimal efficiency, thereby allowing it to complete specific functions as quickly as possible.

As the embedded system is the combination of both software and hardware the simplest devices consist of a single microprocessor which may itself be packaged with other chips in a hybrid system or Application Specific Integrated Circuit (ASIC).



An Embedded system is a special-purpose system in which the computer is completely encapsulated by or dedicated to the device or system it controls. Unlike a general-purpose computer, such as a personal computer, an embedded system performs one or a few pre-defined tasks, usually with very specific requirements. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product.

Personal digital assistants (PDAs) or hand held computers are generally considered Embedded devices because of the nature of their hardware design, even though they are more expandable in software terms. This line of definition continues to blur as devices expand. With the introduction of the OQO Model 2 with the Windows XP operating system and ports such as a USB port both features usually belong to "general purpose computers", the line of nomenclature blur even more

Objectives

Broad Objective

The broad objective is to design and development of IOT BASED LPG GAS LEAKAGE DETECTION AND CONTROLLING SYSTEM

Specific Objective

- There have been many incidents like explosions and fire due to LPG gas leakage.
- Such incidents can cause dangerous effects if the leakage is not detected at an early stage.
- Arduino and IOT based LPG leakage detection system is a project which will help in determining gas leakage in the surrounding and send data to an IOT module.
- Internet of Things (IOT) is the networking of 'things' by which physical things can communicate with the help of sensors, electronics, software, and connectivity.

Year-Wise Plan of Work and targets to be achieved.

1st year : Further review of literature and continuing research in the area development of agriculture based drones.

2. Financial Assistance Required

| S.no | Item | Estimated Expenditure (Rs) |
|---------------|--|----------------------------|
| Non-Recurring | | |
| 1 | Books and Journals | 0 |
| 2 | Equipment a) NodeMCU microcontroller kit b) ESP8266 WIFI receiver c) High end cameras | 50,321 |
| Recurring | | |
| 3 | Field work and Travel | 5000 |
| 4 | Contingency(including special needs) | 10,000 |
| | Total | 65,321 |

3. Any other information which the teacher may like to give in support of this proposal

- In order to save energy and make loads monitored easily, this research suggests smart home project based on IoT technology.
- This smart home is an Internet of Things (IoT) project that controls loads with internet connection via Wireless Fidelity WIFI connection.

- A smart phone connected to internet with Blynk application as a control panel, and NodeMCU microcontroller kit in other side as a controller that receives control commands via WIFI signal
- . NodeMCU kit is built with ESP8266 WIFI receiver that able to process and analyze WIFI signal to input the microcontroller.

REFERENCES

1.A.Somov,A. Baranov,A. Savkin, M.Ivanov,L.Calliari, R.Passerone,E.Karpov and A.Suchkov, "Energy-Aware Gas Sensing Using Wireless Sensor Networks", EWSN 2012, LNCS7158,pp.245-260.

2.D.bhattacharjee,P.Bhatnagar,S.choudhury,"DesignandDevelopmentofaReliableSmartGasFlexibleReliableSmartGasDetectionSystem",IJCA,31(2011)1-8

3.L.Z. Ya, W.Z. Dong and C. Rong, "Intelligent Residential Security Alarm and Remote ControlSystem Based on SingleChip Computer" 3rdInternationalControl System Based on on SingleChipComputer"3rdInternationalconferenceon(ICIEA-2008),June3-5,159-161.

4.C.Peijiang and J.Xuehhu, "Designand implementation ofremotemonitoring systembasedonGSM",PACIIA-2008,19-20Dec.678-681.

5.I. Lita, I.B. Cioc and D. A. Visan, "A New Approach of Automatic Localization System UsingGPS and GSM/GPRS Transmission", 29th International Spring Seminar on (ISSE-2006), 10-14May,115-119.

6.K.Galatsis,W.Wlodarsla,K.K.ZadehandA.Trinchi,"Investigationofgassensorsforvehiclecabinairqualitymonitoring",IEEE(2002)229-232.

7.K. Galatsis, W. Woldarsla, Y.X. Li and K.K. Zadeh, "A Vehicle air quality monitor using gassensorsforimprovedsafety",Proceedingsconferenceon(COMMAD-2000),65-68.

8.A.Srivastava,R.Prabhukar,"GSMBasedGasleakageDetectionSystem"Int.J.Tech.Researc

h&Application,1(2013)42-45.

9.V. Rammaya, B. Palaniappen "Embedded System for Hazardous Gas Detection and Altering"InternationalJournalofDistributedandParallelSystems(IJDPS),3(2012)287-300

SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 10 March 2020

To
The Principal,
Sri Mittapalli College of Engineering
Tummalapalem

Through HOD-ECE

Sir,

Sub: Expenditure statement – In-House R&D Project- A.Y. 2019-2020 Reg.

This is to bring to your kind notice that, the project entitled "IOT BASED LPG GAS LEAKAGE DETECTION AND CONTROLING SYSTEM" is proposed to do In-House R & D project for the academic year 2019-2020. I am here with submitting the approximate amount required to meet the requirements of the Equipment purchased and other miscellaneous.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|---------------------|
| 1 | a) NodeMCU microcontroller kit b) ESP8266 c) WIFI receiver d) High end cameras | 50,321 |
| 3 | Field Work and Travel | 5000 |
| 4 | Contingency | 10000 |
| | TOTAL | 65,321 |

Amount (Rs)

Expenditure towards equipment

50,321

Yours faithfully,
Head of the Department
Electronics & Communication Engineering
SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM, NH-16, GUNTUR.


Investigator
CHINKA SRIKANYA

SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 10 March 2020

To
The Secretary
Sri Mittapalli Engineering College,
Tummalapalem

Sir,


Sub: Requested for Sanction of budget Rs. 65,321.00 under In-house R & D – Reg.

This is to bring to your kind notice that, the project entitled "IOT BASED LPG GAS LEAKAGE DETECTION AND CONTROLING SYSTEM" got selected for In-House R & D in the academic year 2021-2022. Here we are submitting the estimated cost along with required equipment to carry out the project.

| S.No | Equipment | Estimated cost (Rs) |
|------|--|------------------------|
| 1 | e) NodeMCU microcontroller kit f) ESP8266 g) WIFI receiver h) High end cameras | 50,321 |
| 3 | Field Work and Travel | 5000 |
| 4 | Contingency | 10000 |
| | TOTAL | 65,321 |

Hence, I request you to sanction the budget of Rs 65,321.00 (Rupees) under Research and Development fund. As per our Research policy

Thanking you.

Yours faithfully,

(Dr. P.V. NAGANIANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

**IN HOUSE R&D PROJECT
ON
IOT based Smārt Agricultural System**

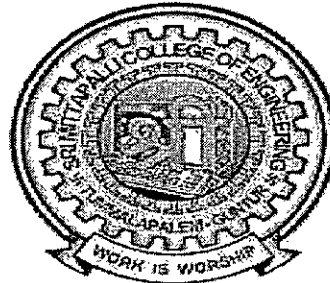
Submitted

by

DR.N. RAJESHA
Professor ECE

DR.V. SREEKANTH
Professor ECE

SRI MITTAPALLI COLLEGE OF ENGINEERING



**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)
TUMMALAPALEM, NH-16, GUNTUR (DT),**

SUBMISSION OF PROPOSAL FOR In- House R&D Project

Date: 11-06-2019

PART-A

1. Board Area : Engineering and Technology
2. Area of Specialization : IOT
3. Title of the project : IOT BASED SMARTNAGRICULTURAL SYSTEM
4. Duration : 1 Year
5. Principal Investigator

Name : DR.N.RAJESHA

Gender : Male

Qualification : M.Tech, PhD

Designation : Professor and mentor (ECE)

Address

Office : Dr. N.RAJESHA

Professor and Mentor of ECE

Sri Mittapalli College of Engineering, Tummalapalem,
Guntur (Dist), Andhra Pradesh- 522233

6. Co-Investigator

Name : Dr.V.SREEKANTH

Gender : Male

Qualification : M. Tech, PhD

Designation : Assistant Professor and Mentor (ECE)

Address
Office

: Dr.V.SREEKANTH

Professor and Mentor of ECE

Sri Mittapalli College of Engineering, Tummalapalem,

Guntur (Dist), Andhra Pradesh- 522233

1. Proposed Research work

(i) **Project Title:** IOT BASED SMARTNAGRICULTURAL SYSTEM

(ii) **Introduction**

Each day, our lives become more dependent on 'embedded systems', digital information technology that is embedded in our environment. More than 98% of processors applied today are in embedded systems, and are no longer visible to the customer as 'computers' in the ordinary sense. An Embedded System is a special-purpose system in which the computer is completely encapsulated by or dedicated to the device or system it controls. Unlike a general-purpose computer, such as a personal computer, an embedded system performs one or a few pre-defined tasks, usually with very specific requirements. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product. Embedded systems are often mass-produced, benefiting from economies of scale.

The increasing use of PC hardware is one of the most important developments in high-end embedded systems in recent years. Hardware costs of high-end systems have dropped dramatically as a result of this trend, making feasible some projects which previously would not have been done because of the high cost of non-PC-based embedded hardware. But software choices for the embedded PC platform are not nearly as attractive as the hardware.

Objectives

Broad Objective

The broad objective is to design and development of IOT BASED SMARTNAGRICULTURAL SYSTEM

Specific Objective

- Water is an essential component used for agriculture.
- Agriculture plays a vital role in the development of agricultural country.
- A farmer do cultivation by monitoring the fields day and night for watering the plants if the field is dry and draining of water when water is in excess quantities

which causes harm to the crop and the soil .

- To reduce burden to the farmer we come up with a solution called Smart Irrigation and draining

2. Financial Assistance Required

| S.No | Item | Estimated Expenditure (Rs) |
|---------------|--|----------------------------|
| Non-Recurring | | |
| 1 | Books and Journals | 0 |
| 2 | Equipment 1. ESP32 2. DHT11 3. Water level sensor 4. Motor 5. IOT | 52,324 |
| Recurring | | |
| 3 | Field work and Travel | 5500 |
| 4 | Contingency (including special needs) | 9500 |
| | Total | 67,324 |

3. Any other information which the teacher may like to give in support of this proposal

- In order to save energy and make loads monitored easily, this research suggests smart home project based on IoT technology.
- This smart home is an Internet of Things (IoT) project that controls loads with internet connection via Wireless Fidelity WIFI connection.
- A smart phone connected to internet with Blynk application as a control panel, and NodeMCU microcontroller kit in other side as a controller that receives control commands via WIFI signal
- . NodeMCU kit is built with ESP8266 WIFI receiver that able to process and analyze WIFI signal to input the microcontroller.

REFERENCES:

- [1] Joaquin Gutierrez Jaguey et al., "Smartphone irrigation sensor", Sensors Journal, vol. 15, NO. 9, September- 2015.
- [2] David Chaparró, MerceVall-llossera, Maria Piles, Adriano Camps, Christoph Rüdiger and Ramon Riera-Tatch, "Predicting the Extent of Wildfires Using Remotely Sensed Soil Moisture and Temperature Trends", IEEE journal of selected topics in applied earth observations and remote sensing, VOL. 9, NO. 6, June 2016.
- [3] Joaquín gutiérrez et al., "Automated irrigation system using a wireless sensor network and gprs module", ieeetransactions on instrumentation and measurement, vol. 63, no.1, january 2014.
- [4] G.nisha, J.megala, "wireless sensor network based automated irrigation and crop field monitoring system", sixth international conference on advanced computing (icoac), 2014.
- [5] Aravind Anil et al., "Project HARITHA - An Automated Irrigation System for Home Gardens", 2012
- [6] JunjinRuan, Peng Liao, Chen Dong., "The Design and Research on IntelligentFertigation System", 2015 7th International Conference on Intelligent Human-Machine Systems and Cybernetics.
- [7] Santoshkumar and Udaykumar R.Y, "Development of WSN System for Precision Agriculture", IEEE Sponsored 2nd International Conference on Innovations in Information Embedded and Communication SystemsICHIECS'15
- [8] Nelson Sales and Artur Arsenio," Wireless Sensor and Actuator System for Smart Irrigation on the Cloud", In Agricultural Communications Documentation Center, 2015
- [9] SabrineKhrij ,Dhouha El Houssaini, Mohamed WassimJmal, Christian Viehweger, Mohamed Abid, OlfaKanoun, "Precision irrigation based on wireless sensor network", IET Science, Measurement and Technology, Jan 2014

**SRIMITTAPALLI COLLEGE OF ENGINEERING
THUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Date: 11 Jan 2020

To
The principal,
Sri Mittapalli College of Engineering,
Tummalapalem

Through HOD-ECE

Sir,

Sub: Expenditure statement – In-House R&D Project- A.Y. 2019-2020 Reg.

This is to bring to your kind notice that, the project entitled **"IOT BASED SMART AGRICULTURAL SYSTEM"** is Proposed to do In-House R & D project for the academic year 2019-2020. I am here with submitting the approximate amount required to meet the requirements of the Equipment purchased and other miscellaneous.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|---------------------|
| 1 | <ul style="list-style-type: none">○ Equipment○ ESP32○ DHT11○ Water level sensor○ Motor' | 52,324 |
| 2 | Field Work and Travel | 5,500 |
| 3 | Contingency | 9,500 |
| | Total | 67,324 |

Amount (Rs)

Expenditure towards equipment

52,324

Thanking you,

Yours faithfully,


Head of Department

Electronics & Communication Engineering
SRIMITTAPALLI COLLEGE OF ENGINEERING
THUMMALAPALEM, NTR-16, GUNTUR-3.


Investigator :

DR.N. RAJESHA

SRIMITTAPALLI ENGINEERING COLLEGE
THUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 11 Jan 2020

To
The Secretary,
Sri Mittapalli College of Engineering,
Tummalapalem

Sir,


Sub: Request for Sanction of budget Rs. 67,324.00 under In-house R & D – Reg.

This is to bring to your kind notice that, the project entitled **"IOT BASED SMARTNAGRICULTURAL SYSTEM"** is approved as In-House R & D in the academic year 2019-2020. Here we are submitting the estimated cost along with required equipment to carry out the project.

| S.No | Equipment | Estimated cost (Rs) |
|------|--|---------------------|
| 1 | <ul style="list-style-type: none">EquipmentESP32DHT11Water level sensorMotor | 52,324 |
| 2 | Field Work and Travel | 5,500 |
| 3 | Contingency | 9,500 |
| | TOTAL | 67,324 |

Hence, I request you to sanction the budget of Rs. 67,324.00 (Rupees) under the Research and Development fund.
As per our Research policy

Thanking you,

Yours faithfully

(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRIMITTAPALLI COLLEGE
OF ENGINEERING
THUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

IN HOUSE R&D PROJECT
ON
IOT BASED AUTOMATIC ENGINE LOCKING BASED ON
ALCOHOL DETECTION

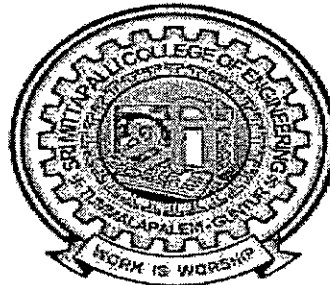
Submitted

by

Mr. POKURI PRAKASH
Assistant Professor

Mr. KALAVAKOLLU GOPI
Assistant Professor

SRI MITTAPALLI COLLEGE OF ENGINEERING



(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)
TUMMALAPALEM, NH-16, GUNTUR (Dist.),

SUBMISSION OF PROPOSAL FOR In- House R&D Project

Date: 03-09-2019

PART-A

1. Board Area : Engineering and Technology
2. Area of Specialization : IOT
3. Title of the project : IOT BASED AUTOMATIC ENGINE LOCKING BASED ON ALOCOHOL DETECTION
4. Duration : 1 Year
5. Principal Investigator

Name : POKURI PRAKASH

Gender : MALE

Qualification : M. TECH

Designation : Assistant Professor and mentor for (ECE)

Address

Office : Mr. POKURI PRAKASH

Assistant Professor and Mentor of ECE

Sri Mittapalli College of Engineering, Tummalapalem,
Guntur (Dist), Andhra Pradesh- 522233

6. Co-Investigator

Name : KALAVAKOLLU GOPI

Gender : MALE

Qualification : M. TECH

Designation : Assistant Professor and mentor for (ECE)

Address

Office : Mr. POKURI PRAKASH

Assistant Professor and Mentor of ECE

Sri Mittapalli college of Engineering, Tummalapalem,

Guntur (Dist), Andhra Pradesh- 522233

1. Proposed Research Work

Project Title : IOT BASED AUTOMATIC ENGINE LOCKING BASED ON ALCOHOL DETECTION

Introduction :

Each day, our lives become more dependent on 'embedded systems', digital information technology that is embedded in our environment. More than 98% of processors applied today are in embedded systems, and are no longer visible to the customer as 'computers' in the ordinary sense. An Embedded System is a special-purpose system in which the computer is completely encapsulated by or dedicated to the device or system it controls. Unlike a general-purpose computer, such as a personal computer, an embedded system performs one or a few pre-defined tasks, usually with very specific requirements. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product. Embedded systems are often mass-produced, benefiting from economies of scale.

The increasing use of PC hardware is one of the most important developments in high-end embedded systems in recent years. Hardware costs of high-end systems have dropped dramatically as a result of this trend, making feasible some projects which previously would not have been done because of the high cost of non-PC-based embedded hardware. But software choices for the embedded PC platform are not nearly as attractive as the hardware.

Typically, an embedded system is housed on a single microprocessor board with the programs stored in ROM. Virtually all appliances that have a digital interface -- watches, microwaves, VCRs, cars -- utilize embedded systems. Some embedded systems include an operating system, but many are so specialized that the entire logic can be implemented as a single program. Physically, Embedded Systems range from portable devices such as digital watches and MP3 players, to large stationary installations like traffic lights, factory controllers, or the systems controlling nuclear power plants. The applications software on such processors is sometimes referred to as firmware. The simplest devices consist of a single microprocessor (often called a "chip"), which may itself be packaged with other chips in a hybrid

system or Application Specific Integrated Circuit (ASIC). Its input comes from a detector or sensor and its output goes to a switch or activator which (for example) may start or stop the operation of a machine or, by operating a valve, may control the flow of fuel to an engine. As the embedded system is the combination of both software and hardware.

(iii) Objectives

Broad Objective

The broad objective is to design and development of IOT Based Automatic Engine Locking Based on Alcohol Detection

Specific Objectives

1. Alcohol detection system is developed for road transportation safety and Women safety in smart city using Internet of Things (IOT) technology.
2. Two Sensors are set and monitored with the use of a microcontroller.
3. When the first sensor is reached, the developed system transmits the Breathing traces level of the driver and the position coordinates of the vehicle to the central monitoring unit.
4. At the reach of the second Sensor, the IOT-enabled alcohol & Smoking detection system triggers warning light indicator and buzzer sounds.
5. The efficiency of this system is tested to ensure proper functionality.

(v) Year-wise Plan of work and targets to be achieved.

1st Year: Further review of literature and continuing research in the area. Development of agriculture based drones.

2. Financial Assistance Required:

| S.No | Item | Estimated Expenditure(Rs) |
|---------------|---|---------------------------|
| Non-Recurring | | |
| 1 | Books and journals | 0 |
| 2 | Equipment <ul style="list-style-type: none">• ESP32• Buzzer• Motor• LCD• Alcohol sensor | 47,351 |
| Recurring | | |
| 3 | Field Work and Travel | 5000 |
| 4 | Contingency(including special needs) | 10000 |
| | Total | 62,351 |

3. Any other information which the teacher may like to give in support of this proposal.

- According to the current status the database will be refreshed. The user can install app from resources.
- ESP32, Buzzer, Motor, LCD, Alcohol sensor these are Hard ware Components.
- APPLICATIONS:
- The main goal of the system is to alert the nearby medical services about the accident so as to provide immediate medical aid.
- Application is user friendly.

REFERENCES

- 1.Mitsubayashi, Kohji, et al. "Biochemical gas sensor(bio sniffer) for breath analysis after drinking." SICE 2004 Annual Conference. Vol.1.IEEE,2004.
2. "Smoke Alarms in U.S. Home Fires".nfpa.org. September 2015. Archived from the original on 2017-07-29. Retrieved 2017-07-28.
3. Commission of the European Communities (18 June 2009). "Internet of Things — An action plan for Europe" (PDF).COM (2009) 278 final.
4. "The Internet of Things" by Samuel Green gard Author: Samuel Green gard.

SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 20 Feb 2020

To
The Principal,
Sri Mittapalli College of Engineering
Tummalapalem

Through -HOD-ECE

Sir,

Sub: Expenditure statement – In-House R&D Project- A.Y. 2021-22 – Reg.

This is to bring to your kind notice that, the project entitled "IOT Based Automatic Engine Locking Based on Alcohol Detection" is proposed to do In-House R & D project for the academic year 2019-2020. I am here with submitting the approximate amount required to meet the requirements of the Equipment purchased and other miscellaneous.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|------------------------|
| 1 | <ul style="list-style-type: none">• ESP32• Buzzer• Motor• LCD• Alcohol sensor | 47,351 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | TOTAL | 62,351 |

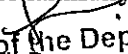
Amount (Rs)

Expenditure towards equipment

47,351.00

Thanking you,

Yours faithfully,


Head of the Department
Electronics & Communication Engineering
SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM, NH-16, GUNTUR.


Investigator

POKURI PRAKASH

**SRI MITTAPALLI ENGINEERING OF COLLEGE
THUMMALAPALEM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Date: 20 Feb 2020

To
The SECRETARY,
Sri Mittapalli College of Engineering,
Tummalapalem

Sir,

Sub: Requested for Sanction of budget Rs. 62,351.00 under In-house R & D – Reg.


This is to bring to your kind notice that, the project entitled “**IOT Based Automatic Engine Locking Based on Alcohol Detection**” is approved as In-House R & D in the academic year 2019-2020. Here we are submitting the estimated cost along with required equipment to carry out the project.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|------------------------|
| 1 | <ul style="list-style-type: none">• ESP32• Buzzer• Motor• LCD• Alcohol sensor | 47,351 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | TOTAL | 62,351 |

Hence, I request you to sanction the budget of Rs. 62,351.00 (Rupees) under the Research and Development fund.

As per our Research policy

Thanking you,

Yours faithfully,

PRINCIPAL
(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
THUMMALAPALEM, NH-5
G. ofur (Dt.), A.P. Pin : 522 233

IN HOUSE R&D PROJECT
ON
BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM

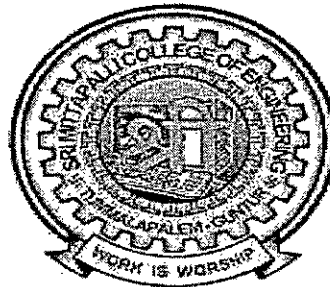
Submitted

by

Dr. SHAIK MOHAMMAD RAFI
Professor CSE

Mrs. SD.RESHMA
Assistant Professor CSE

SRI MITTAPALLI COLLEGE OF ENGINEERING



(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)
TUMMALAPALEM, NH-16, GUNTUR (Dist.),

SUBMISSION OF PROPOSAL FOR In- House R&D Project

Date: 15-6-2019

PART-A

1. Board Area : Engineering and Technology
2. Area of Specialization : IOT
3. Title of the project : BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM
4. Duration : 1 Year
5. Principal Investigator

Name : Dr. SHAIK MOHAMMAD RAFI

Gender : MALE

Qualification : M.TECH , PhD

Designation : Professor and Mentor for CSE

Address

Office : Dr. SHAIK MOHAMMAD RAFI
Professor and Mentor of CSE
Sri Mittapalli College of Engineering, Tummalapalem,
Guntur (Dist), Andhra Pradesh- 522233

6. Co-Investigator
Name

: SD. RESHMA

Gender

: FEMALE

Qualification

: M.Tech

Designation

: Assistant Professor

Address

Office

: Sd. RESHMA

Assistant Professor and Mentor of CSE

Sri Mittapalli College of Engineering, Tummalapalem,

Guntur (Dist), Andhra Pradesh- 522233

1. Proposed Research Work

(i) **Project Title** : BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM

(ii) **Introduction**

An Embedded System is a special-purpose system in which the computer is completely encapsulated by or dedicated to the device or system it controls. Unlike a general-purpose computer, such as a personal computer, an embedded system performs one or a few pre-defined tasks, usually with very specific requirements. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product. Embedded systems are often mass-produced and fitting from economies of scale. The increasing use of PC hardware is one of the most important developments in high-end embedded systems in recent years. Hardware costs of high-end systems, making feasible some projects which previously would not have been done because of the high cost of non-PC based embedded hardware. But software choices for the embedded PC platform are not nearly as attractive as the hardware.

Typically, an embedded system is housed on a single microprocessor board with the programs stored in ROM. Virtually all appliances that have a digital interface--watches, microwaves, VCRs, cars -- utilize embedded systems. Some embedded systems include an operating system, but many are so specialized that the entire logic can be implemented as a single program. Physically, Embedded Systems range from portable devices such as digital watches and MP3 players, to large stationary installations like traffic lights, factory controllers, or the systems controlling nuclear power plants. The applications software on such processors is sometimes referred to as firmware. Simplest devices consist of a single microprocessor (often called a "chip"), which may itself be packaged with other chips in a hybrid system or Application Specific Integrated Circuit (ASIC). Its input comes from a detector or sensor and its output goes to a switch or activator which (for example) may start or stop the operation of a machine or, by operating a valve, may control the flow of fuel to an engine. As the embedded system is the combination of both software and hardware.

(iii) Objectives

Broad Objective

The broad objective is to design and development of Based On Vehicles Movement Street Light Control System.

Specific Objectives

- Now-a-days the amount of power consumed by lighting and streets shares a major energy demand.
- The vehicles are passing over always and a part of places will be consisting of less density are a sand even no vehicle moments itself in few areas.
- But during night all street lights will be on in conventional street lighting system.
- To overcome from this issue, a proper energy saving methodsand lighting control to be implemented.
- . The proposed work is to have two controls like, one is to switch of lights during no vehicle moments in streets and automatically switch it on when vehicles arrive and the other modes are to give less intensity light for pedestrian and to switch on bright mode during vehicle moments at sides on the roads.

(v)Year- wise Plan of work and targets to be achieved.

1st Year: Further review of literature and continuing research in the area.

Development of based on vehicles movement street light control system

2. Financial Assistance Required

| S.No | Item | Estimated Expenditure (Rs) |
|----------------|--|----------------------------|
| Non- Recurring | | |
| 1 | Books and Journals | 0 |
| 2 | HARDWARE REQUIRMENTS | 48,245 |
| | 1. Automatic Teller Machines | |
| | 2. Cellular telephone and telephone switches | |
| | 3. Computer network equipment | |
| | 4. Computer printers | |
| | 5. Disk drives | |
| | 6. Home automation products | |
| Recurring | | |
| 3 | Field Work and Travel | 5000 |
| 4 | Contingency (including Special needs) | 10000 |
| | Total | 63,245 |

3. Any other information which the teacher may like to give in support of this proposal

- The farmer can easily know the disease of the crop and can take immediate actions to prevent the crop damage, which indeed improves the crop production.

**SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Date: 19 Feb 2020

To
The Principal,
Sri Mittapalli College of Engineering,
Tummalapalem.

Through HOD-CSE

Sir,

Sub: **Expenditure statement – In-House R&D Project- A.Y. 2019-2020– Reg.**

This is to bring to your kind notice that, the project entitled "BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM" is Proposed to do In-House R & D project for the academic year 2019-2020. I am here with submitting the approximate amount required to meet the requirements of the Equipment purchased and other miscellaneous.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|---------------------|
| 1 | <ul style="list-style-type: none">• Automatic Teller Machines• Cellular telephone and telephone switches• Computer network equipment• Computer printers• Disk drives• Home automation products | 48,245 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | Total | 63,245 |

Amount (Rs)

Expenditure towards equipment

48,245

Thanking you,

Yours faithfully,


HOD-CSE

Investigator


Dr SHAIK MOHAMMAD RAFI

SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 19 Feb 2020

To
The Principal,
Sri Mittapalli College of Engineering,
Tummalapalem.

Sir,


Sub: Requested for Sanction of budget Rs. 63,245.00 under In-house R & D – Reg.

This is to bring to your kind notice that, the project entitled "BASED ON VEHICLES MOVEMENT STREET LIGHT CONTROL SYSTEM" is approved as In-House R & D in the academic year 2019-2020. Here we are submitting the estimated cost along with required equipment to carry out the project.

| S.No | Equipment | Estimated cost (Rs) |
|------|---|---------------------|
| 1 | <ul style="list-style-type: none">Automatic Teller MachinesCellular telephone and telephone switchesComputer network equipmentComputer printersDisk drivesHome automation products | 48,245 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | Total | 63,245 |

Hence, I request you to sanction the budget of Rs. 63,245.00 under Research and Development fund. As per our Research policy.

Thanking you,


(Dr. P.V. NAGANJANEYULU)
Principal
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

IN HOUSE R&D PROJECT
ON
IOT BASED FIRE AND SMOKE DETECTING SYSTEM

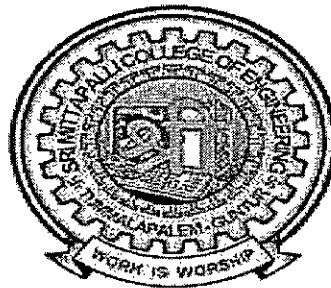
Submitted

by

Mr. DR SIKHAKOLLI GOPI KRISHNA
Professor

Mr. DEVI HARI KRISHNA
Assistant Professor

SRI MITTAPALLI COLLEGE OF ENGINEERING



(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)
TUMMALAPALEM, NH-16, GUNTUR (Dist.),

SUBMISSION OF PROPOSAL FOR In- House R&D Project

Date: 10-08-2019

PART-A

- | | |
|---------------------------|---|
| 1. Board Area | : Engineering and Technology |
| 2. Area of Specialization | : IOT |
| 3. Title of the project | : IOT BASED FIRE AND SMOKE DETECTING SYSTEM |
| 4. Duration | : 1 Year |
| 5. Principal Investigator | |

| | |
|------|-------------------------------|
| Name | : Dr. SIKHAKOLLI GOPI KRISHNA |
|------|-------------------------------|

| | |
|--------|--------|
| Gender | : Male |
|--------|--------|

| | |
|---------------|----------------|
| Qualification | : M. Tech, PhD |
|---------------|----------------|

| | |
|-------------|----------------------------|
| Designation | : Professor Mentor for CSE |
|-------------|----------------------------|

Address

| | |
|--------|--|
| Office | : Dr SIKHAKOLLI GOPI KRISHNA Professor and Mentor of CSE Sri Mittapalli College of Engineering, Tummalapalem, Guntur (Dist), Andhra Pradesh- 522233 |
|--------|--|

6. Co-Investigator

Name : DEVVI HARI KRISHNA

Gender : Male

Qualification : M. Tech

Designation : Assistant Professor & Mentor for CSE

Address

Office : Mr. DEVVI HARI KRISHNA
Assistant Professor and Mentor of CSE
Sri Mittapalli College of Engineering, Tummalapalem,
Guntur (Dist), Andhra Pradesh- 522233

1. Proposed Research work

(i) **Project Title: IOT BASED FIRE AND SMOKE DETECTING SYSTEM**

(ii) **Introduction**

Introduction Embedded Systems

An embedded system is a system which is going to do a predefined specified task is the embedded system and is even defined as combination of both software and hardware. A general-purpose definition of embedded systems is that they are devices used to control, monitor or assist the operation of equipment, machinery or plant. "Embedded" reflects the fact that they are an integral part of the system. At the other extreme a general-purpose computer may be used to control the operation of a large complex processing plant, and its presence will be obvious. All embedded systems are including computers or microprocessors. Some of these computers are however very simple systems as compared with a personal computer.

Objectives

Broad Objective

The broad objective is to design and development of IOT BASED FIRE AND SMOKE DETECTING SYSTEM

Specific Objective

- The Internet of Things refers to connecting things and people through internet, it has imposed itself as the New business practices in different sectors.
- In this paper it is proposed that a quick response for fire hazards is evaluated and examined by using IoT based model.
- Fire is one of the major reasons of accidental deaths in the world.
- To implement this proposed system a low-cost Wi-Fi module, gas detection sensor, Flame detection sensor, buzzer to alert and temperature sensors are used.

Year-Wise Plan of Work and targets to be achieved.

1st year: Further review of literature and continuing research in the area development of fire and smoke detecting system.

2.

| S.No | Item | Estimated Expenditure (Rs) |
|---------------|---------------------------------------|----------------------------|
| Non-Recurring | | |
| 1 | Books and Journals | 0 |
| 2 | Equipment | 51,234 |
| | a) NodeMCU microcontroller | |
| | b) ESP8266 WIFI | |
| Recurring | | |
| 3 | Field work and Travel | 5000 |
| 4 | Contingency (including special needs) | 10000 |
| | Total | 66,234 |

3. Any other information which the teacher may like to give in support of this proposal

- In order to save energy and make loads monitored easily, this research suggests smart home project based on IoT technology.
- This smart home is an Internet of Things (IoT) project that controls load with internet connection via Wireless Fidelity WIFI connection.
- A smart phone connected to internet with Blynk application as a control panel, and NodeMCU microcontroller kit in other side as a controller that receives control commands via WIFI signal
- NodeMCU kit is built with ESP8266 WIFI receiver that able to process and analyze WIFI signal to input the microcontroller.

SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 12 Jan 2020

To
The Principal,
Sri Mittapalli College of Engineering
Tummalapalem

Through HOD-CSE

Sir,

Sub: Expenditure statement – In-House R&D Project- A.Y. 2019–2020 Reg.

This is to bring to your kind notice that, the project entitled “IOT BASED FIRE AND SMOKE DETECTING SYSTEM” is proposed to do In-House R & D project for the academic year 2019-2020. I am here with submitting the approximate amount required to meet the requirements of the Equipment purchased and other miscellaneous.

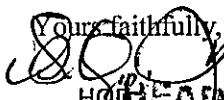
| S.No | Equipment | Estimated cost (Rs) |
|------|--|---------------------|
| 1 | NodeMCU microcontroller ESP8266 WIFI | 51,234 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | Total | 66,234 |

Amount (Rs)

Expenditure towards equipment

51,234

Thanking you,

Yours faithfully,

HOD-CSE
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SRI MITTAPALLI COLLEGE OF ENGINEERING
NH-16, THUMMALAPALEM, GUNTUR-522 233.


Investigator
Dr SIKHAKOLLI GOPI KRISHNA

**SRI MITTAPALLI COLLEGE OF ENGINEERING
TUMMALAPALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Date: 12 Jan 2020

To
The Secretary,
Sri Mittapalli College of Engineering,
Tummalapalem

Sir,


Sub: Requested for Sanction of budget Rs. 66,234.00 under In-house R & D – Reg.

This is to bring to your kind notice that, the project entitled "IOT BASED FIRE AND SMOKE DETECTING SYSTEM" is approved as In-House R & D in the academic year 2019-2020. Here we are submitting the estimated cost along with required equipment to carry out the project.

| S.No | Equipment | Estimated cost (Rs) |
|------|--|------------------------|
| 1 | NodeMCU microcontroller ESP8266 WIFI | 51,234 |
| 2 | Field Work and Travel | 5000 |
| 3 | Contingency | 10000 |
| | Total | 66,234 |

Hence, I request you to sanction the budget of Rs. 66,234 (Rupees) under the Research and Development fund As per our Research policy.

Thanking you,

Yours faithfully,

(Dr. P.V. NAGANABANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

Guntur,

Date: 5/12/2019

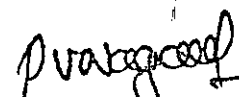
TO
THE PRINCIPAL,
SRI MITTAPALLI COLLEGE OF ENGINEERING,
GUNTUR- 522233.

Sub: Requesting for the Budget Proposal for the Research Project undertake – Reg
Respected Sir,

It is here by to bring you kind notice that the final year students would like to undertake on research projects in academic year 2019-20 in our college. On this note, we request you to sanction the required amount for successful completion of the research project. The details of the material and amount required are as follows:

| S NO | NAME OF PROJECT | AMOUNT REQUIRED |
|--------|--|--------------------|
| 1 | Privacy Protection for Wireless Medical Sensor Data” and “Human Trajectory Prediction | 33200.00 |
| 2 | HUMAN TRAJECTORY PREDICTION | 19000.00 |
| Total: | | 52200.00 |

Thanking you sir,


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233


Head of the Department

HEAD
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SRI MITTAPALLI COLLEGE OF ENGINEERING
NH-16, THUMMALAPALEM. GUNTUR-522 233.

Date: 3/12/19

Guntur – 522233.

Respected Sir,

It is here by to bring you kind notice that the final year students would like to undertake two research projects on “**Privacy Protection for Wireless Medical Sensor Data**” and “**Human Trajectory Prediction**” in our college. On this note, we request you to sanction the required amount for successful completion of the research project. The details of the material and amount required are as follows;

| S.No. | Material Required | Amount Required |
|--------------|--------------------------|-----------------|
| 1 | Raspberry Pi | 10000 |
| 2 | Alarms | 2,000 |
| 3 | Sensors | 3,000 |
| 4 | 9V Battery | 200 |
| 5 | Location Tracking System | 2,000 |
| 6 | GPS Navigation Device | 10,000 |
| 7 | Camera | 5,000 |
| 8 | Atmel Processor | 1,000 |
| Total | | 33200.00 |

Name and Signature of the Students:

1. PALLAPATI KRISHNAVENI (16U91A0556) - P. Krishnaveni
2. BOTLAGUNTA PRASANNA (16U91A0510) P
3. VANKAYALA LAKSHMI KAVYA (16U91A0572) - V.L. Kavaya
4. VEMULA SOWJANYA (16U91A0578) S

S. Chyala Chinnu
Project Guide

(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (DL), A.P. Pin : 522 233


Head of the Department

HEAD
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SRI MITTAPALLI COLLEGE OF ENGINEERING
NH-16, THUMMALA PALEM. GUNTUR-522233.

Guntur,

Date: 4/12/2019

To

The Head of the Department,

Department of CSE,

Sri Mittapalli College of Engineering,

Guntur - 522233!

Sub: Budget Proposal for In-House B.Tech project Completion - Reg

We the 4th year 2nd semester students of Department of Computer Science and Engineering, as part of course work, it is mandatory to complete the project work. In order to fulfill this as per the directions of project review committee the following topic is selected.

Name of the Topic : **HUMAN TRAJECTORY PREDICTION**

Requirements and Budget Proposed:

| S.NO | Component Name | Quantity | Amount (Rs) |
|------|--------------------------|----------|---------------|
| 1 | Location Tracking System | 1 | 2,000 |
| 2 | GPS Navigation Device | 1 | 10,000 |
| 3 | Camera | 1 | 5,000 |
| 4 | Atmel Processor | 1 | 1,000 |
| | Total | | 19,000 |

Name and Signature of the Students:

1. SHAIK. AYESHA (16U91A0564)
2. KANDAKATLA SOWMYA VENKATA NAGA SAI SRIYA (16U91A0530)
3. TATA YASWANTH (16U91A05671)
4. GOGIREDDY MOUNIKA (16U91A0520)

N. Prabhakar
Project Guide

P. V. Naganjaneyulu
(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

S. S. J.
Head of the Department

HEAD
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SRI MITTAPALLI COLLEGE OF ENGINEERING
NH-15, THUMMALAPALEM. GUNTUR-522 233.

Guntur,

Date: 09-01-2020

TO

THE PRINCIPAL,

SRI MITTAPALLI COLLEGE OF ENGINEERING,

GUNTUR- 522233.

Sub: Requesting for the Budget Proposal for the Research Project undertake – Reg
Respected Sir,

It is here by to bring you kind notice that the final year students would like to undertake on research projects in academic year 2019-20 in our college. On this note, we request you to sanction the required amount for successful completion of the research project. The details of the material and amount required are as follows:

| S NO | NAME OF PROJECT | AMOUNT REQUIRED |
|--------|---|--------------------|
| 1 | DESIGN OF R.C.C. OVER HEAD TANK (2020) | 3300.00 |
| 2 | WAYS OF EROSION CONTROL ON HIGH WAY CONSTRUCTION | 6200.00 |
| 3 | THE SIZE OF AGGREGATE ON SELF COMPACTING CONCRETE OF M70 GRADE | 7450.00 |
| TOTAL: | | 16900.00 |

Thanking you sir

A. P. ...
Head of the Department
Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-16, TUMMALAPALEM,
Guntur (Dt.), A.P., Pin : 522 233,

P. V. Naganjaneyulu
(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM,
GUNTUR (Dt.), A.P. Pin : 522 233,

Guntur,

Date. 27-02-20

To

The Head of the Department,

Department of Civil Engineering,

Sri Mittapalli College of Engineering,

Guntur-522233.

Sub: Budget Proposal for In-House B.Tech Project Completion - Reg

We the 4th year 2nd semester students of department of Civil engineering, as part of course work it is mandatory to complete the project work. In order to fulfill this as per the directions of project review committee the following topic is selected.

Name of the Topic: Effective ways of erosion control on high way construction

Requirements: SOIL, REINFORCED CONCRETE, AGGREGATES, STEEL FIBRES, CEMENT, BITUMEN

Budget Proposed:


SOIL, REINFORCED CONCRETE, AGGREGATES=2000


STEEL FIBRES, CEMENT, BITUMEN =4200

Signature of the Students:

- 1) Sh. Afrin - 16091A0118
- 2) Y. Yaliya - 16091A0116
- 3) A. Basad - 16091A0101
- 4) Sh. Sattar bappa - 16091A0123
- 5) Sh. Khora - 16091A0120


Project Guide


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
T. M. LADAPALLEM N-19
Guntur District, A.P.


Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-16, TUMMALAPALEM,
Guntur (Dt.), A.P., Pin : 522 233

Guntur,

Date. 27-02-20

To

The Principal,

Sri Mittapalli College of Engineering,

Guntur-522233.

Sub: Requesting for the Budget Proposal for the Research Project undertake – Reg

Respected Sir,

It is here by to bring you kind notice that;the final year students would like to undertake one research project on "DESIGN OF R.C.C. OVER HEAD TANK " in our college.On this note,we request you to sanction the required amount for successful completion of the research project.The details of the material and amount required are as follows;

| S.No | Material Required | Amount Required |
|------|--|-----------------|
| 1 | AUSTENITIC STAINLESS STEEL, CARBON STEEL | 2800 |
| 2 | LUBE OIL,PIPES,GAS KITS. | 2500 |

Thanking you sir,

D. P. S.
Yours Sincerely,

Head of the Dept. (HOD).

Dr. P. V. NAGANJANEYULU
Sri Mittapalli College of Engineering
Tummalapalem, Guntur-522233.

P. V. Naganjaneyulu
(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233

Guntur,

Date. 27-02-20

To

The Head of the Department,

Department of Civil Engineering,

Sri Mittapalli College of Engineering,

Guntur-522233.

Sub: Budget Proposal for In-House B.Tech Project Completion - Reg

We the 4th year 2nd semester students of department of Civil engineering, as part of course work it is mandatory to complete the project work. In order to fulfill this as per the directions of project review committee the following topic is selected.

Name of the Topic: THE SIZE OF AGGREGATE ON SELF COMPACTING CONCRETE OF M70 GRADE.

Requirements: AGGREGATES, SAND, CEMENT, COMPACTING EQUIPMENT.

Budget Proposed:

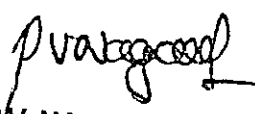
AGGREGATES, SAND, CEMENT = 2200


COMPACTING EQUIPMENT = 5250

Signature of the Students:

- 1) M. Naimulla Beg. - 16091A0115
- 2) SK. Vali - 16091A0125
- 3) K. Prasad - 17095A0102
- 4) K. Prasanthi - 17095A0103
- 5) Geethika R - 17095A0104


Project Guide


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233


Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-16. TUMMALAPALEM,
Guntur (Dt.), A.P., Pin : 522 233.

Guntur,

Date. 27-02-20

To

The Principal,

Sri Mittapalli College of Engineering,

Guntur-522233.

Sub: Requesting for the Budget Proposal for the Research Project undertake – Reg

Respected Sir,

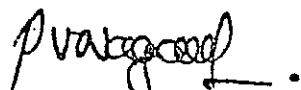
It is here by to bring you kind notice that the final year students would like to undertake one research project on "Effective ways of erosion control on high way construction" in our college. On this note, we request you to sanction the required amount for successful completion of the research project. The details of the material and amount required are as follows;

| S.No | Material Required | Amount Required |
|------|--|-----------------|
| 1 | SOIL, REINFORCED CONCRETE, AGGREGATES | 2000 |
| 2 | STEEL FIBRES, CEMENT, BITUMEN | 4200 |

Thanking you sir,

Yours Sincerely,

Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-15, TUMMALAPALEM,
Guntur, A.P. Pin : 522233.


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-15
Guntur (Dt.), A.P. Pin : 522233

Guntur,

Date. 09-01-21

To

The Head of the Department,
Department of Civil Engineering,
Sri Mittapalli College of Engineering,
Guntur-522233.

Sub: Budget Proposal for In-House B.Tech Project Completion - Reg

We the 4th year 2nd semester students of department of Civil engineering, as part of course work it is mandatory to complete the project work. In order to fulfill this as per the directions of project review committee the following topic is selected.

Name of the Topic: CONSTRUCTION OF PLASTIC ROADS.

Requirements: POLYETHYLENE TEREPHTHALATE, POLYPROPYLENE, SAND, AGGREGATES.

Budget Proposed:

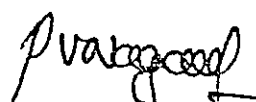
POLYETHYLENE TEREPHTHALATE, POLYPROPYLENE = 1800


SAND, AGGREGATES = 2500

Signature of the Students:

- 1) G. Malani - 17095A0102
- 2) P. Shob Khan. - 17091A0113
- 3) N. S. S. - 17091A0112
- 4) U. Thirunath - 17091A0118
- 5) P. Anu - 17091A0115


Project Guide


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-5
Guntur (Dt.), A.P. Pin : 522 233


Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-16, TUMMALAPALEM,
Guntur (Dt.), A.P., Pin : 522 233.

Guntur,

Date. 27-02-20

To

The Principal,

Sri Mittapalli College of Engineering,

Guntur-522233.

Sub: Requesting for the Budget Proposal for the Research Project undertake – Reg


Respected Sir,

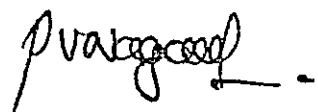
It is here by to bring you kind notice that;the final year students would like to undertake one research project on "THE SIZE OF AGGREGATE ON SELF COMPACTING CONCRETE OF M70 GRADE " in our college.On this note,we request you to sanction the required amount for successful completion of the research project.The details of the material and amount required are as follows;

| S.No | Material Required | Amount Required |
|------|--------------------------|-----------------|
| 1 | AGGREGATES, SAND, CEMENT | 2200 |
| 2 | COMPACTING EQUIPMENT | 5250 |

Thanking you sir,

Yours Sincerely,


(HOD)
Head of the Department
Department of Civil Engineering
Sri Mittapalli College of Engineering
NH-16, TUMMALAPALEM,
Guntur (Dt.), A.P., Pin : 522 233.


(Dr. P.V. NAGANJANEYULU)
PRINCIPAL
SRI MITTAPALLI COLLEGE
OF ENGINEERING
TUMMALAPALEM, NH-16
Guntur (Dt.), A.P., Pin : 522 233

Date 15/03/2020

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.):

Voucher Type : Debit / Credit / J.V.

Rs. 67,324 (Rupees Sixty Seven thousand three hundred twenty four only)

towards Dr. N. Rajesh & Dr. V. Srikanth

against Cq. No./Cash Cash through Sri Mittapalli Trust


Account


Cashier

N. Rajesh
Receiver's Signature

Date...15/03/2020.....

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

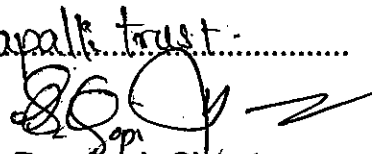
Rs. 66,234..... (Rupees... Sixty Six Thousand Three hundred thirty four Rupees Only

towards... Dr. Sippalcoli Gopi Krishna & Devvi Hari Krishna.....

against Cq. No./Cash Cash through Sri... Mittapalli trust.....


Account


Cashier


Receiver's Signature

Date...15/03/2020...

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :


Voucher Type : Debit / Credit / J.V.

Rs. 62,351..... (Rupees... Sixty two thousand three hundred fifty one rupees Only

towards... pokuri prakash & kalavakollu Gopi.....

against Cq. No./Cash Cash through Sri... Mittapalli Trust


Account


Cashier


Receiver's Signature

Date 15/03/2020.....

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST
Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 63,245..... (Rupees Sixty three thousand two hundred forty five Rupees only)

towards Shaik Mohammad Rabi & Syed Reshoma.....

against Cq. No./Cash Cash through Sri Mittapalli trust.....

Account

Cashier

Receiver's Signature

Date...15/03/2020.....

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :


Voucher Type : Debit / Credit / J.V.

Rs. 65,321..... (Rupees Sixty five thousand three hundred twenty one Rupees only)

towards... Chinka Sriranya & Bommala Srivalli.....

against Cq. No./Cash Cash through Sri... Mittapalli Trust.....


Account


Cashier

ch. Sri Kuntla
Receiver's Signature

Date...15/3/2020.....

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 21,000..... (Rupees..... Twenty one thousand rupees..... Only)

towards..... Yampathi Harika.....

against Cq. No./Cash Cash..... through Sri..... Mittapalli Trust.....


Account


Cashier


Receiver's Signature

Date...15/03/2020

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 22,000 (Rupees.....Twenty-two Thousand rupees only)

towards...Soma Satish Kumari.....

against Cq. No./CashCash.....through Sri...Mittapalli Trust.....


Account


Cashier


Receiver's Signature

Date...15/03/2020

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 3,300..... (Rupees..... Three Thousand Three hundred rupees only
towards..... Akkala Pavan.....

against Cq. No./Cash Cash through Sri..... Mittapalli Trust.....


Account


Cashier


Receiver's Signature

Date...15/03/2020

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST
Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 6,200 (Rupees Six thousand two hundred rupees only)

towards 4 Ashok

against Cq. No./Cash Cash through Sri Mittapalli Trust

Account

Cashier

Receiver's Signature

Date...15...03...2022

SRI MITTAPALLI TRUST

SPONSORED BY SRI MITTAPALLI TRUST

Tummalapalem, NH-5, GUNTUR - 522 223.

Ledger Name (A/c.) :

Voucher Type : Debit / Credit / J.V.

Rs. 7,450 (Rupees Seven thousand four fifty rupees) only

towards D. Kichore

against Cq. No./Cash Cash through Sri Mittapalli Trust

Account

Cashier

Receiver's Signature