

3.1.1 Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (3)

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Duration of the project
Railway track security system	B Alekya	Electronics and Communication Engineering	2013	18000	2012-13
A User-Level Tool For Inferring Router Packet Forwarding Priority	B.RAMESH BABU	Computer Science & Engineering	2013	15000	2012-13
Drowsiness Detection and Automatic car parking and Tracking using GSM and GPS	Prof.P Krishna Rao	Electronics and Communication Engineering	2014	22000	2013-14
Student Tracking System	D.V.Santosh Deepak	Computer Science & Engineering	2014	20000	2013-14
COMPRESSED AIR ENGINE	B. VENKATA NAIDU	Mechanical Engineering	2015	30000	2014-15
HOME MADE AIR CONDITIONING UNIT	S.K. SHARIEF	Mechanical Engineering	2015	10000	2014-15
SEGWAY HT	M. VENKATESH	Mechanical Engineering	2015	20000	2014-15
Electronic eye Controlled Security System	KS Gurumuthry	Electronics and Communication Engineering	2015	24000	2014-15
E-Bus Pass Management	N.V.Reddy	Computer Science & Engineering	2015	18000	2014-15
power Hump	A.Arjun Rao	Electrical & Electronics Engineering	2015	40000	2014-15
Soft Start of 3 –Ph Induction motor by using back-back SCRS	A.Arjun Rao	Electrical & Electronics Engineering	2015	25000	2014-15
FLEXIBLE E-VEHICLE	P. ANIL KUMAR	Mechanical Engineering	2016	25000	2015-16
PNEUMATIC SHEET CUTTING MACHINE	M. LAKSHMI SRAMIKA	Mechanical Engineering	2016	20000	2015-16
Anti Theft Alarm Machine using Arudino	Dr VSV Prabhakar	Electronics and Communication Engineering	2016	19000	2015-16
Active Fusion Of College	Y.Ramesh Kumar	Computer Science & Engineering	2016	15000	2015-16
Foot step power generation using Piezoelectric Sensor	D.Dhan Prasad	Electrical & Electronics Engineering	2016	10000	2015-16
GSM Based Home Automation System Using Arudino	Dr GV Sridhar	Electronics and Communication Engineering	2017	14000	2016-17
Face Recognition Based Attendance System	S.Chanti	Computer Science & Engineering	2017	20000	2016-17
Home Automation & Energy Monitoring	Venkat Ratnam	Electrical & Electronics Engineering	2017	25000	2016-17



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Tagarapuvalasa
Date: 22-10-2012

To
The Center Head,
GENEX SOFTWARE SOLUTIONS,
Visakhapatnam

Respected Sir


Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Computer Science and Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

Name of the project	Duration	Department	Estimated cost
A User-Level Tool For Inferring Router Packet Forwarding Priority	2012-2013	Computer Science and Engineering	15000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


MOD,
Dept. of CSE,
AIET,
Tagarapuvalasa,
Vizianagaram District.




Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Committed for achieving Excellence in Technical Education



GeneX Software Solution

Pent House, Varanasi Majestic., Opp. PizzaHut, DwarakaNagar 2nd lane,
Visakhapatnam, Andhra Pradesh 530016

Tagarapuvalasa,

Date:02-11-2012.

To,
The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally(V),Bhogapuram(M)
Vizianagaram, Dt.

Sub: Acceptance of proposal-Reg

Respected sir/madam

We would like to thank you for your project proposal. After a careful analysis, we have decided to grant you permission to begin work.

We are greatly appreciative students of Avanthi Institute of Engineering Technology, hard work and cooperation with us on this project. We thank you for your consideration in this matter and will be on the lookout for your prompt response

We are happy to be associated with the project and will continue to give the necessary guidance.

Manager,
GENEX SOFTWARE SOLUTION,
VISAKHAPATNAM.



Date:11-03-2013.

From

Head of the Department

Avanthi Institute of Engineering and Technology

Cherukupally Bhogapuram

Vizianagaram.

To

GeneX Software Solutions,

Vishakhapatnam.

Sub: Project completion report Req-Regd,

I am writing to inform you that the "A USER LEVEL TOOL FOR INFERRING ROUTER PACKET FORWARDING PRIORITY" project has been completed. Please let me know if you have any further questions or any feedback related to the completion

Here I am attaching the details of Project Expenditure below.

I expect to hear from you soon. Thank you.

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Q7)
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 Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162
 www.avanthi.edu.in Email: info@avanthi.edu.in

Particulars	Cost
Research Lab Maintenance	3000
Stationary	2000
Appreciation prize for students	5*2000
<ul style="list-style-type: none"> M.Sindu teja S.Ajay babu M.Lokesh kumar Md.Sayeedulla T.Siddartha 	10000
Total	15000

AVANTHI INSTITUTE OF ENGG. & TECH.
 Cherukupally (V), Chittivalasa (S.A.O.)
 Bhogapuram (A)
 Vizianagaram (Dist.)

AVANTHI INSTITUTE OF ENGG. & TECH.
 Cherukupally (V), Chittivalasa (S.A.O.)
 Bhogapuram (A)
 Vizianagaram (Dist.)

Naming conventions and Definations

Application: A User level Tool For Inferring Router Packet Forwarding Priority

Company: GeneX Solutions

Project Objective:

We are sending the packets through the priority method to send the meta info in a proper order. It helps for sending the packets from POPI using the tool for inferring the packets.

Project Definition:

The client identifies areas that would have greatest returns and still reasonable in time to implement:

Modules:

- Preparing Meta Information
- Dumping in to the network
- Analysis of Network Policies
- Report Generation

Technical Explanation of modules:

Preparing Meta Info:

- In the first module in sender it will generate sample packets from different packet types with certain counting
- The receiver will except the sample packets in a order which is specified in the meta information packets. It also contain the time gap(T) between packet types

Dumping in to the network:

- Its the second phase of POPI tool for after preparing the meta data it has to generat the sample packets in all types
- After generating al the packets will be dumped to the network to the sender

- Then packets travel to the destination through the router which can enforces the the policies.

Analysis of network policies :

After receiving packets it checks

- Order of packets with meta info
- Packet numbers
- Time gap(T)
- Generates the policies

Report Generation:

- It compares received packets from meta info
- Calculates the delay based on the Time gap(T) of sender side and receiver side

AVANTHI INSTITUTE OF ... TECH.
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Bhogapuram (M)
Vizianagaram (Dist.)



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Tagarapuvalasa

Date: 21-08-2012

TO
THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM

Respected Sir

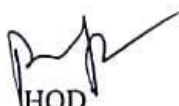
Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.


Name of the project	Duration	Department	Estimated cost
RAILWAY TRACK SECURITY SYSTEM	2012-2013	Electronics and Communication Engineering	18000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details


Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

PRINCIPAL
AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 163

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RAILWAY TRACK SECURITY SYSTEM BUDGET PROPOSAL

2012-2013

Tagarapuvalasa
Date: 21-08-2012

TO
THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal and budget for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

S.NO	COMPONENT NAME	COST
1	MICRO CONTROLLER P89V51RD2	3500
2	16X2 LCD	200
3	PIEZEO ELECTRIC SENSOR	350
4	LM 358 COMPARATOR	700
5	MAX 232	400
6	GSM	4800
7	LEDS	150
8	KIEL COMPILER	2000
9	FLASH MAGIC	1500
10	PCB BOARD	200
11	CONNECTING WIRES	100
12	POWERSUPPLY BOARD	100
13	MANPOWER	4000
	TOTAL	18000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Principal
AIET,
Tagarapuvalasa.
Vizianagaram District.



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08933-226739, www.aietta.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT TITLE: RAILWAY TRACK SECURITY SYSTEM

PROJECT GUIDE: B ALEKHYA

STUDENTS:

M LAKSHMI (09Q71A0432)

R S V SEKHAR (09Q71A0448)

P GOWRI PRASAD (09Q71A0444)

D SATISH (09Q71A0413)

Abstract:

The objective of this project is to send the SMS indication to control station, when the track is cut or the workers or working on track and to prevent the train accidents. In this project the vibration sensor is placed on the track. It is fabricated with piezoelectric plate. It converts the mechanical vibration in to electrical signal. The vibration sensor output is given to amplifier in order to amplify the electrical signal. Then the amplified signal is given to microcontroller. And we have one transmitter and receiver both are connected with cables. These are closely attached with track, if the track is cut, this cable will also cut. In real time we have this vibration sensor, transmitter and receiver in track for every 200 meters. Or we can extend this distance using amplifiers. When the train comes on the track, the vibration sensor detects the train's vibration and sends a low pulse to the microcontroller.

Whenever the controller detects a low pulse from sensor, it will send a checking data to receiver from the transmitter. If the receiver gets the sensor, it will send a checking data to receiver from the transmitter. If the receiver gets the signal without loss means, the receiver sends a high pulse to controller then it identify the track is good. if the receiver didn't receive the signal means the controller will send a warning SMS to the receiver mobile, which is in control station, through the GSM modem, which is interfaced with microcontroller.

The RS232 is used for communicate the controller and GSM modem. So the accident can be avoided. When the workers are going to works on the track means they will also get message from GSM modem, which is interfaced with microcontroller. Before this we have to program their microcontroller for this application.



.... The Thinking Store

Teck Team Solutions

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Near Satyam Junction, NH-5, Visakhapatnam-13

Ph : 0891-6067555 Mobile : 888 633 2298

e-mail : teckteams@gmail.com Web : www.teckteamsolutions.com

Tagarapuvalasa

Date: 12-12-2012

To,

The Principal,

Avanthi Institute of Engineering and Technology,

Cherukupally(V),Bhogapuram (M)

Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
RAILWAY TRACK SECURITY SYSTEM	2012-2013	Electronics and Communication Engineering	18000

The above mentioned project shall be completed on or before (Date)

Details related to the project specifications and payment mode have been mentioned in the attachment

Maintenance and Project handling details shall be discussed later

Hoping for a healthy association and looking forward to get associated with your institution.

THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Fax : 0891-6667321

Tagarapavalasa
Date: 16-11-2013

To
The Center Head
GENEX SOFTWARE SOLUTIONS,
Visakhapatnam

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Computer Science and Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

Name of the project	Duration	Department	Estimated cost
Student Tracking System	2013-2014	Computer Science and Engineering	20000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD

Dept. of CSE,
AIET,
Tagarapavalasa,
Vizianagaram District.




Principal
AIET,
Tagarapavalasa,
Vizianagaram District.

Enclosed Project details

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GeneX Software Solution

Pent House, Varanasi Majistic,, Opp. PizzaHut, DwarakaNagar 2nd lane,
Visakhapatnam, Andhra Pradesh 530016

Tagarapavalasa,

Date:28-11-2013.

To,

The Principal,

Avanthi Institute of Engineering and Technology,

Cherukupally(V),Bhogapuram(M)

Vizianagaram, Dt.

Sub: Acceptance of proposal-Reg

Respected sir/madam

We would like to thank you for your project proposal. After a careful analysis, we have decided to grant you permission to begin work.

We are greatly appreciative students of Avanthi Institute of Engineering Technology, hard work and cooperation with us on this project. We thank you for your consideration in this matter and will be on the lookout for your prompt response

We are happy to be associated with the project and will continue to give the necessary guidance.

Project Manager,
GENEX SOFTWARE SOLUTION,
VISAKHAPATNAM.





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Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162
www.avanthi.ed.in, Email: hodtse@avietta.ac.in

From

Date: 07-04-2014.

Head of the Department

Avanthi Institute of Engineering and Technology

Cherukupally Bhogapuram

Vizianagaram.

To

GeneX Software Solutions,

Vishakhapatnam.

Sub: Project completion report Req-Regd,

I am writing to inform you that the 'STUDENT TRACKING SYSTEM' project has been completed. Please let me know if you have any further questions or any feedback related to the completion.

Here I am attaching the details of Project Expenditure below.

I expect to hear from you soon. Thank you.

Particulars	Cost
Research Lab Maintenance	2000
Stationary	2000
Appreciation prize for students for completion of projects	4*4000
Total	20000

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Near Tagarapuvalasa (S.A.C.)
Bhogapuram (M)
Vizianagaram (Dist.)

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Near Tagarapuvalasa (S.A.C.)
Bhogapuram (M)
Vizianagaram (Dist.)

Naming conventions and Definations

Application: Student Tracking System

Company: GeneX Solutions

Project Objective:

Project is to present identity card which consist of a RFID module and a transmitter that can send data to the receiver connected to the rooms and further to database with minimum cost which can afford by small institutions also

Our intension is to maintain entire schedule and data of a student throughout a day

Project Definition:

Technical requirements to be implemented

- It should track an individual when they enter a room.
- This process should take place in a hassle free manner and therefore
- wireless system would be advantageous.
- A receiver can be placed in each of the rooms in the building and connected to a computer system which can take input from the connected receiver and enter it in a database of all individuals or personnel in the building.
- The receiver would receive input from a transmitter which would be given to all the people working in the building.
- Since all the information is logged in a database, any person in the building will be able to access this information through any computer connected to this system and come to know the location of the person he or she is seeking

The system architecture consists of simple format of Central system and peripheral system.

1. Peripheral systems: It includes nodes, desktops that accept information from the RFID readers which are mounted on the doors or at entry to any department
2. Central systems: It includes server that handles all information of desktops.
3. Front end consist of GUI for administrator that do tracking.

P
AVANTHI INSTITUTE OF ENGG. & TECH.
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Bhogapuram (M)
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Fax : 0891-6667321

Tagarapuvalasa

Date: 16-09-2013

TO
THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM

Respected Sir


Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

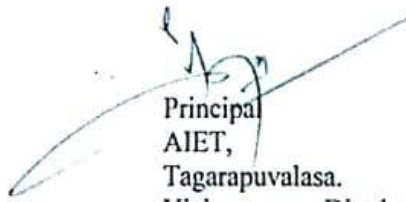
Name of the project	Duration	Department	Estimated cost
DROWSINESS DETECTION AND AUTOMATIC CAR PARKING AND TRACKING USING GSM AND GPS	2013-2014	Electronics and Communication Engineering	22000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details


Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH.
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08933-226739, www.aietta.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DROWSINESS DETECTION AND AUTOMATIC CAR PARKING AND TRACKING **USING GSM AND GPS BUDGET PROPOSAL** **2013-2014**

Tagarapuvalasa
Date: 16-09-2013

TO
THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal & budget for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

S. NO	COMPONENT NAME	COST
1	MICRO CONTROLLER P89V51RD2	3500
2	LM 358	700
3	IR SENSORS	2200
4	MOTOR DRIVERS(L293D)	300
5	GSM	4800
6	BUZZER	100
7	GPS(EM-406A)	2800
8	POWER SUPPLY	100
9	MAX 232	400
10	.KIEL COMPILERLANGUAGES	2500
11	PCB BOARD	200
12	CONNECTING WIRES	100
13	POWERSUPPLY BOARD	100
14	MANPOWER	4200
	TOTAL	22000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Principal
AIET,
Tagarapuvalasa.
Vizianagaram District.



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08933-226739, www.aietta.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT TITLE: DROWSINESS DETECTION AND AUTOMATIC CAR PARKING

AND TRACKING USING GSM AND GPS

PROJECT GUIDE: Prof. P KRISHNA RAO

STUDENTS:

R LAKSHMI PRASANNA	(10Q71A0442)
R PRIYANKA	(10Q71A0441)
P SWATHI VYDEHI	(10Q71A0433)
P VASU	(10Q71A0439)

Abstract:

India witnessed one road accident every minute in 2011 which claimed one life every 3.7 minute, one of the highest records in the world. Most of the accidents occur due to driver's drowsiness or if he is drunk. In order to save them, this project is developed.

Our project deals with Drowsiness detection and Automatic car parking system using P89V51RD2 Microcontroller. The project is designed for automatic car parking using 2 IR sensors.

The main aim of this project is to detect the drowsiness using the IR sensor and to automate the car park. This system also sends the information about the person in the car using GSM. It also uses GPS for tracking the location of the person who is in the car. Another IR sensor is used for controlling the operation of the motor. After detecting the drowsiness, this system produces alarm using Buzzer.

This system provides information about the person who is in drowsiness state due to any conditions consumption, over-night driving etc.



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Near Satyam Junction, NH-5, Visakhapatnam-13

Ph : 0891-6067555 Mobile : 888 633 2298

e-mail : teckteams@gmail.com Web : www.teckteamsolutions.com

Tagarapuvalasa

Date: 03-11-2013

To,

The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally(V),Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
DROWSINESS DETECTION AND AUTOMATIC CAR PARKING AND TRACKING USING GSM AND GPS	2013-2014	Electronics and Communication Engineering	22000

The above mentioned project shall be completed on or before (Date)

Details related to the project specifications and payment mode have been mentioned in the attachment

Maintenance and Project handling details shall be discussed later

Hoping for a healthy association and looking forward to get associated with your institution.

THE PROJECT MANAGER,
TECK TEAM SOLUTIONS,
VISAKHAPATNAM





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(NBA ACCREDITED)

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: 0891-6667320
Fax : 0891-6667321

Tagarapuvalasa
Date: 17-11-2014

To
The Center Head
TRIANT TECHNOLOGIES,
Visakhapatnam

Respected Sir


Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Computer Science and Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

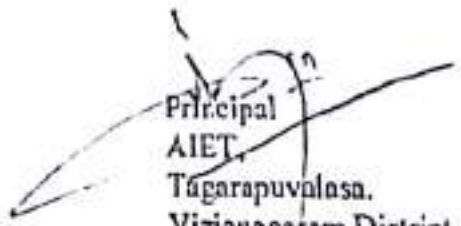
Name of the project	Duration	Department	Estimated cost
E-BUS PASS MANAGEMENT	2014-2015	Computer Science and Engineering	18000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD
Dept. of CSE,
AIET,
Tagarapuvalasa,
Vizianagaram District.




Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Committed for achieving Excellence in Technical Education



#9-42-20, Balaji Nagar, Near SBI Zonal Office, Siripuram, Visakhapatnam-03.

Tagarapuvalasa,

Date: 5.12.2014.

To,

The Principal,

Avanthi Institute of Engineering and Technology,

Cherukupally(V), Bhogapuram(M)

Vizianagaram, Dt.

Sub: Acceptance of proposal-Reg

Respected sir/madam

CONGRATULATIONS, Based on the information furnished by you. We are pleased to inform you that you have been approved to start a project.

It will be appreciated if Students of Avanthi Institute of Engineering Technology to make this project a success in the allotted time.

I request you to make the payment from your side and later on producing the bill we shall reimburse the entire amount.

In case of any other queries, please get in touch with us.

We are happy to be associated with the project and will continue to give the necessary guidance.

CENTER HEAD
TRIANT TECHNOLOGIES
VISAKHAPATNAM



From

Date:06-03-2015.

Head of the Department

Avanthi Institute of Engineering and Technology

Cherukupally Bhogapuram

Vizianagaram.

To

Trient Technologies,

Vishakhapatnam.

Sub: Project completion report Req-Regd,

I am writing to inform you that the 'E-BUS PASS MANAGEMENT' project has been completed. Please let me know if you have any further questions or any feedback related to the completion.

Here I am attaching the details of Project Expenditure below.

I expect to hear from you soon. Thank you.

Particulars	Cost
Research Lab Maintenance	3000
Stationary	3000
Appreciation prize for students for completion of projects	4*3000
Total	18000

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

Project Details:

Project Name	E-Book Payment And Renewal System
Project Type	Web based applications
Project Sponsor	Ustad Technologies

Project Objective:

E-Book Registration And Renewal System Project is real time project which is useful for the students who are facing problems with the current manual mode of book registration and renewal. It also increases the validity period, frequently Warns to the student before completion of his validity period by sending sms or mails. His Her Renewal or Registration can be done using a voucher or even by a credit card.

Project Details:

Feature	Definition
Virtual access	The basic idea is to customers can register the website and then allotted to login in the page Customer can fill the fresh application in the required fields after submit the applications
E-Payment	Customers can directly pay through debit and credit card After payment customers can taken a printout
Automation	It Warns to the student before completion of his validity period by sending sms or mails. His Her Renewal or Registration can be done using a voucher or even by a credit card.

Registration	Initially students need to register with the application by submitting details of photo address proof, and required details and submit through online
--------------	---

• duration	Verifies details and approve bus pass. You can even renewal using credit card or other wise transfer methods.
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1
AVANTHI INSTITUTE OF ENGINEERING
 Cherukupally (Vill), Chittival
 (Managing Direc
 Bhogapuram (N
 Vizianagaram (Di



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(NBA ACCREDITED)

(Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162
Administration Office : Beside PEN School, Dabagardens, Visakhapatnam - 530 020

☎ : 08933-226739

: 9705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa
Date:06-10-2014

To
The Director,
Green Energy life Solutions,
Hyderabad

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg

We are very much delighted to convey that we have been developing various projects by the students of Electrical and Electronics Engineering in our college. As a part of it we are enthusiastic to submit the proposal for your support/sponsorship for developing the project at our college premises.

Name of the Project	Duration	Department	Estimated Cost
Soft Start of 3-Ph Induction motor by using back-back SCRS	2014-15	EEE	Rs.25000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of EEE,
AIET

Principal,
AIET,
Tagarapuvalasa.
Vizianagaram Dt.

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-5311 100

Enclosed Project Proposal details

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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognised by Govt of A.P & Permanantly Affiliated to JNTUK, Kakinada)

Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162

www.avanthi.edu.in, www.aletta.ac.in Email : avanthispark@gmail.com

Department of Electrical & Electronics Engineering

PROJECT TITLE: Soft Start to A 3- Phase Induction Motor By Using Back To Back SCRS in each Phase

PROJECT GUIDE: Mr. A.ARJUNA RAO (Ph.D)

ABSTRACT:

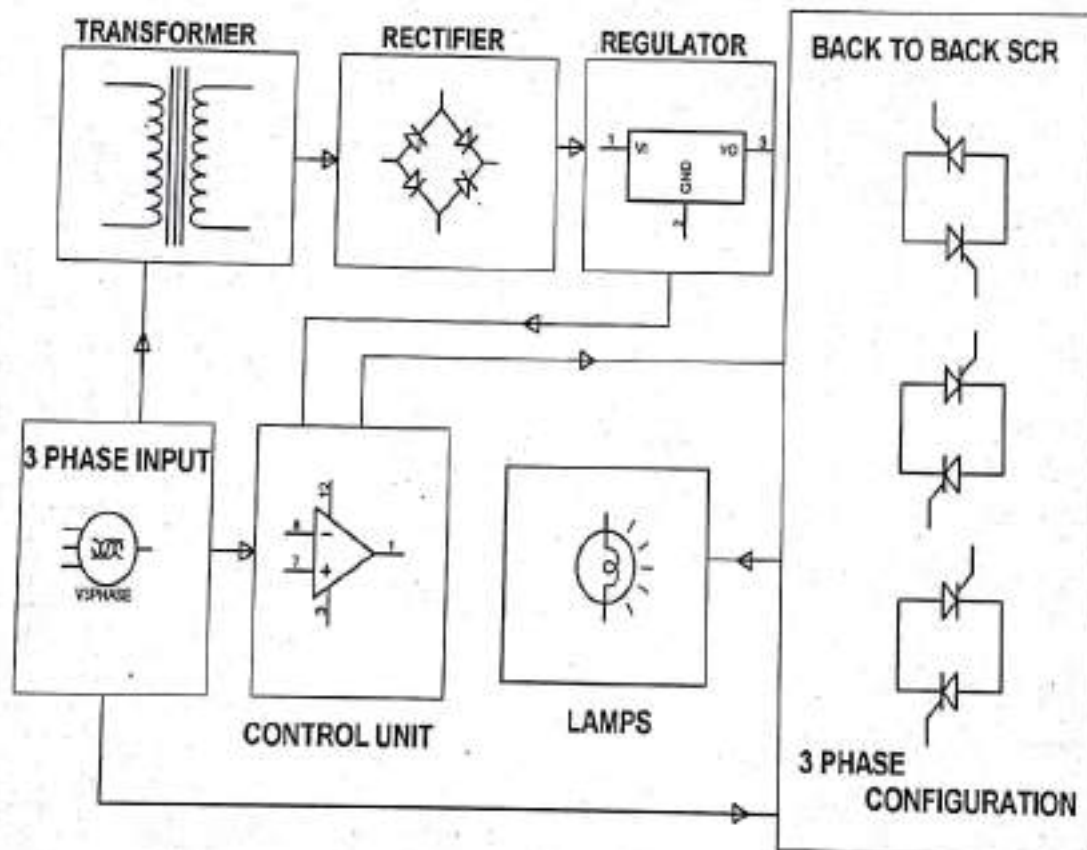
The project is designed to provide a soft and smooth start to a 3- phase induction motor. The three phase induction motor during the initial starting condition draws up much higher current than its capacity and the motor instantly reaches the full speed. This results in a mechanical jerk and high electrical stress on the windings of the motor. Sometimes the windings may get burnt. The induction motor should start smoothly and gradually catch up speed for a safer operation. This project is designed to give a soft start to the induction motor based on the SCR firing triggered by heavily delayed firing angle during starting and then gradually reducing the delay till it reaches zero voltage triggering. This results in low voltage during start and then gradually to full voltage. Thus the motor starts slowly and then slowly picks up to full speed.

This project consists of a six anti-parallel SCRs, two for each phase, the output of which is connected to a set of lamps representing the coils of a 3 phase induction motor. The charging and discharging of capacitors is interfaced to comparators resulting in delayed firing pulses during start and then gradually reducing the delay till the motor runs at full speed. Output from the comparators is fed through opto- isolators to trigger the SCRs. Further the project can be enhanced by using IGBTs in place of SCRs with PWM control to reduce harmonic distortions often encountered in SCR triggering mechanism.



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www.avanthi.edu.in, www.aicte.ac.in Email : avanthispark@gmail.com
Department of Electrical & Electronics Engineering

Block Diagram for Soft Start to A 3- Phase Induction Motor By Using Back To Back SCRS in each Phase.



Project Associates:

- | | |
|------------------------|------------|
| 1. S.Eswara Rao | 12Q75A0210 |
| 2. G.Santhoshi | 11Q71A0211 |
| 3. P.Sai Saran Shankar | 11Q71A0235 |
| 4. D.Bhanu Chandar | 11Q71A0253 |
| 5. P.Sreekanth | 11Q71A0258 |

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 (APPROVED BY AICTE, RECOGNISED BY GOVT OF A.P. & AFFILIATED TO JNTU, KAKINADA)
 CHERUKUPALLY(V), NEAR TAGARAPUVALASABRIDGE, VIZIANAGARAM DIST-531162
 www.avanthi.edu.in, www.aietta.ac.in
 DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PROJECT COST ESTIMATION

Name of the Project :

SOFT START OF 3-ph IND. MOTOR

Components Required

S.No.	Description of Item	Qty Reqd.	Unit Rate	Total Amount
1	Transformer	6	600.00	3,600.00
2	Voltage Regulator(LM 7812)	10	25.00	250.00
3	Rectifier(800V, 2A full Bridge)	6	80.00	480.00
4	Filter(DTMT decoder)	6	150.00	900.00
5	Transistor(BC 558, BC547)	10	10.00	100.00
6	Op-amp(LM324, LM 334)	10	20.00	200.00
7	OPTO Isolator (Moc 3021)	8	45.00	360.00
8	IN 4148 PN Diode	10	2.00	20.00
9	IN 4007 PN Diode	10	5.00	50.00
10	BC 547 Transistor	10	5.00	50.00
11	SCR	6	75.00	450.00
12	Motor	4	250.00	1,000.00
13	Resistors: 4.7K,	10	450.00	4,500.00
14	Capacitor :470 μ F, 10 μ F, 2.2 μ F, 0.4 μ F	5	250	1,250.00
15	LED	4	40.00	160.00
16	Bulbs: 230V, 40W	7	50.00	350.00
17	Patch Wires	4	75.00	300.00
18	PC Board	6	130.00	780.00
19	Induction motor	1	4,988.00	4,988.00
Total				19,788.00
Workmanship (25% of the above amount)				4,947.00
Budget Proposed				24,735.00
Total Amount (Rounded Off)				25,000.00


Project Guide


HOD-EEE



Dt. 03-02-2015

To
The Principal
Avanthi Institute of Engineering and Technology
Cherukupally(V),Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
Soft Start of 3 -Ph Induction motor by using back-back SCRS	2014-15	EEE	Rs.25000

The above mentioned project shall be completed on or before (Date)
Details related to the project specifications and payment mode have been mentioned in the attachment
Maintenance and Project handling details shall be discussed later
Mr.G.Srinivas will be our single point of contact for any support required.
Hoping for a healthy association and looking forward to get associated with your institution.





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08933-226739
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Fax : 08933-226739
: 0891-2748231
: 0891-6667320
Fax : 0891-6667321

Tagarapuvalasa
Date: 18-03-2015

To
The Director,
Green Energy life Solutions,
Hyderabad

Subject: Completion of the Project- "Soft Start of 3 -Ph Induction motor"

Dear Sir,

We are pleased to inform you that we will complete the Project "Soft Start of 3 -Ph Induction Motor" in the desired time. It has been a great achievement by us to complete the project on time and with the current pace of work it is anticipated that the project work, report and left overs will be completed within a week.

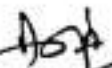
It has been a great privilege working in association with you and looking forward to work with you in the future projects.

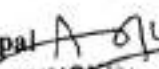
We would like to inform you to please clear our payments left with you at the completion of the work so that we could be able to pay our project Associates in the agreed time.

Looking forward to a quick response from your side.

Thanking you and assuring you our best services at times.

Yours truly,


HOD
Head of The Department
Dept. Electrical & Electronics Engineering
Avanathi Institute of Engg. & Tech.
Cherukupally, Chittivalasa (SAO),
Bhogapuram(M), Vizianagaram(Dist)-531162


Principal
AIET, PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH
Cherukupally, Chittivalasa (SAO),
Bhogapuram (M), Vizianagaram (Dist.) - 531 162

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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

Administration Office : Beside PEN School, Dabagardens, Visakhapatnam - 530 020

☎ : 08933-226739
: 9705169740
Fax : 08933-226739
: 0891-2748231
: 0891-6667320
Fax : 0891-6667321

Tagarapuvalasa
Date: 02-09-2014

To
The Director,
Innovative Systems,
Hyderabad

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg

We are very much delighted to convey that we have been developing various projects by the students of Electrical and Electronics Engineering in our college. As a part of it we are enthusiastic to submit the proposal for your support/sponsorship for developing the project at our college premises.

Name of the Project	Duration	Department	Estimated Cost
Power Hump	2014-15	EEE	Rs 40000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of EEE,
AIET

Principal
AIET,
Tagarapuvalasa,
Vizianagaram Dt.

Enclosed Project Proposal details

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH
Cherukupally (V), Chittivalasa
Bhogapuram
Vizianagaram

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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally(V),Near Tagarapuvalasa Bridge,Vizianagaram Dist-531162

www.avanthi.edu.in, www.sietta.ac.in Email : avanthispark@gmail.com

Department of Electrical & Electronics Engineering

PROJECT TITLE: Electricity Generation from Speed Breakers (Power Hump)

PROJECT GUIDE: Mr. A.ARJUNA RAO (Ph.D)

ABSTRACT:

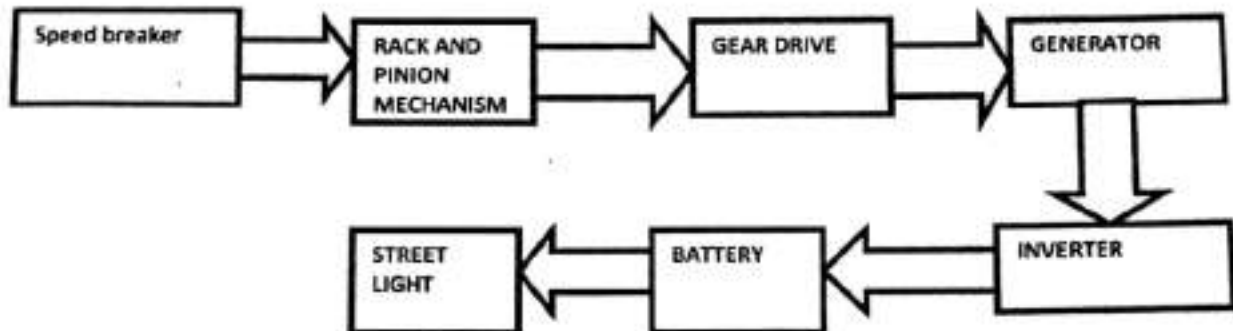
In the present scenario power becomes major need for human life. Due to day-to-day increase in population and lessen of the conventional sources, it becomes necessary that we must depend on non-conventional sources for power generation. While moving, the vehicles possess some kinetic energy and it is being wasted. This kinetic energy can be utilized to produce power by using a special arrangement called "POWER HUMPS".

The Kinetic energy of moving vehicles can be converted into mechanical energy of the shaft through rack and pinion mechanism. This shaft is connected to the electric dynamo and it produces electrical energy proportional to traffic density. This generated power can be regulated by using Zener diode for continuous supply. All this mechanism can be housed under the dome like speed breaker, which is called hump. The generated power can be used for general purpose like street lights, traffic signals. The electrical output can be improved by arranging these power humps in series this generated power can be amplified and stored by using different electric devices. The maintenance cost of hump is almost nullified. By adapting this arrangement, we can satisfy the future demands to some extent.



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www.avanthi.edu.in www.aicta.ac.in Email : avanthipark@gmail.com
Department of Electrical & Electronics Engineering

Block Diagram of Power Hump



Project Associates :

- | | |
|--------------------|------------|
| 1. M.Swathi | 11Q71A0226 |
| 2. S.Pavani | 11Q71A0241 |
| 3. M.Sinivas Yadav | 11Q71A0225 |
| 4. T.Vinay | 12Q75A0211 |

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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CHERUKUPALLY(V), NEAR TAGARAPUVALASABRIDGE, VIZIANAGARAM DIST-531162
www.avanthi.edu.in, www.aietta.ac.in

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PROJECT COST ESTIMATION

Name of the Project :

POWER HUMP

Components Required

S.No.	Description of Item	Qty Reqd.	Unit Rate	Total Amount
1	Rack and Pinion Arrangement	4	500.00	2,000.00
2	Gear Arrangement	2	2,500.00	5,000.00
3	Shaft	2	500.00	1,000.00
4	Shaft	2	750.00	1,500.00
5	Generator	2	850.00	1,700.00
6	battery	2	1,055.00	2,110.00
7	Inverter(12-115V Ac, 140W)	2	3,815.00	7,630.00
8	IC 4047	6	30.00	180.00
9	MOSFET(IRF 540)	4	30.00	120.00
10	LED	4	40.00	160.00
11	diode(IN4007)	10	2.00	20.00
12	Resistors: 4.7K, 3.3K, 10K, 470K, 1K, 100K, 2.2K	10	450.00	4,500.00
13	Capacitor :470 μ F, 10 μ F, 2.2 μ F, 0.4 μ F	6	250	1,500.00
14	Transformer	6	600.00	3,600.00
15	Miscellaneous	1	750.00	750.00
Total				31,770.00
Workmanship (25% of the above amount)				7,942.50
Budget Proposed				39,712.50
Total Amount (Rounded Off)				40,000.00


Project Guide


HOD - EEE

Innovative Systems

Towards Quality Service



E-mail: innovative_systems@rediffmail.com

H. No.1-7-202, South Kamalanagar,
E.C.I.L. Post, Hyderabad - 500062

Dt.18.12.2014

To

The Principal

Avanthi Institute of Engineering and Technology

Cherukupally(V),Bhogapuram (M)

Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam,

Based upon your request and project details submitted, our team has expressed their willingness to extend our financial support to your institution for the completion of below mentioned project.

Name of the Project	Duration	Department	Estimated Cost
Power Hump	2014-15	EEE	Rs 40000

We are also hereby request to submit the project completion details from time to time.

Amount shall be released in installments based on the recommendations of our technical team.

Our organization reserves all the rights to stop funding at any point of time if we notice any diversified intension.

We hope that your institution shall abide by rules and regulations and complete the project by meeting all deadlines.

Looking forward for the association and hoping for a mutual co-operation.





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinda)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08933-226739

: 9705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Vizianagaram
Date: 04-04-2015

To
The Director,
Innovative Systems,
Hyderabad

Subt: Completion of the Project- "Power Hump"

Dear Sir,

We are pleased to inform you that we will complete the Project "Power Hump" in the desired time. It has been a great achievement by us to complete the project on time and with the current pace of work it is anticipated that the project work, report and left overs will be completed within a week.

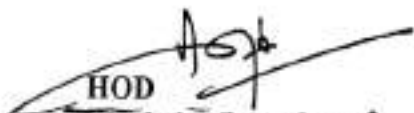
It has been a great privilege working in association with you and looking forward to work with you in the future projects.


We would like to inform you to please clear our payments left with you at the completion of the work so that we could be able to pay our project Associates in the agreed time.

Looking forward to a quick response from your side.

Thanking you and assuring you our best services at times.

Yours truly,


HOD
Head of The Department
Dept. Electrical & Electronics Engineering
Avanthi Institute of Engg. & Tech.
Cherukupally(V), Chittivalasa (SO),
Bhogapuram(M), Vizianagaram(Dist)-531162


Principal
AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SO),
Bhogapuram (M),
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Administration Office : Beside PEN School, Dabagardana, Visakhapatnam - 530 020

TEL : 08933 225735
: 9788169746
Fax : 08933 225735
: 0891 2748231
: 0891 6867320
Fax : 0891 6867321

Tagarapuvalasa
Date: 23-07-2014

TO
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

Name of the project	Duration	Department	Estimated cost
ELECTRONIC EYE CONTROLLED SECURITY SYSTEM	2014-2015	Electronics and Communication Engineering	24000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 163

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CHERUKUPALLY(V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
08233-226732. www.aiet.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ELECTRONIC EYE CONTROLLED SECURITY SYSTEM BUDGET

PROPOSAL

2014-2015

Tagarapuvalasa
Date: 23-07-2014

TO
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

S. NO	COMPONENT NAME	COST
1	ARDUINO UNO	5500
2	VIBRATION SENSOR	5000
3	GSM MODEM	2500
4	LDR	300
5	BUZZER	100
6	DC MOTOR	2900
7	L293D	200
8	ARDUINO UNO(SOFTWARE)	2900
9	PCB BOARD	200
10	CONNECTING WIRES	100
11	POWERSUPPLY BOARD	100
12	MANPOWER	4200
	TOTAL	24000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (NBA ACCREDITED)

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08933-226739. www.aieeta.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT TITLE: ELECTRONIC EYE CONTROLLED SECURITY SYSTEM

PROJECT GUIDE: K S GURU MURTHY

STUDENTS:

Y JHANSI RANI (11Q71A04B5)

O PRUDHVI (11Q71A0481)

N KEERTHISHA (11Q71A0478)

L RAMU (11Q71A0467)

P S S UMESH (11Q71A0482)

Abstract:

The project is designed as the security system based on the photo sensing arrangement. It uses a 14 stage ripple carry binary counter to send the light intensity through LDR. The output drives a buzzer and a relay for necessary action. This concept is very useful to detect burglars from banks, malls, jewellery stores and also in homes.

This system is based on an electronic eye: it is an LDR sensor, called light dependent resistor. When light falls on the sensor, its resistance drastically decreases which leads to triggering an alarm to alert the user. This system best suits in the application of providing security of cash boxes and lockers, which can be found in malls and jewellery shops and banks. This circuit is placed inside the cash box or locker in such a way that, when the burglar opens the locker and uses the torch light to find the valuables, the light falls on the circuit which contains an electronic eye (LDR) and gives signal to ripple counter. This activates the alarm, and indicates burglary attempt. Also a lamp is used to indicate theft when light falls on LDR.

Further the project can be enhanced by using GSM modem and microcontroller. GSM modem can be interfaced to the microcontroller to send an SMS to the user in case of burglary.

Tagarapuvalasa
Date: 24-12-2014

To,
The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally(V), Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
ELECTRONIC EYE CONTROLLED SECURITY SYSTEM	2014-2015	Electronics and Communication Engineering	24000

The above mentioned project shall be completed on or before (Date)
Details related to the project specifications and payment mode have been mentioned in the attachment
Maintenance and Project handling details shall be discussed later
Hoping for a healthy association and looking forward to get associated with your institution.

CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(NBA ACCREDITED)

(Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)

Cheruvu Village, Chintavaka (S.O), Duggapuram, Vizianagaram Dist. - 531 162
Administration Office : Beside PEN School, Dabaganthi, Visakhapatnam - 530 020

☎ : 08933 226730
☎ : 0705160740
Fax : 08933 226730
☎ : 0891 2740231
☎ : 0891 2267320
Fax : 0891 2267321

Tagarapuvalasa
Date: 10-11-2015

To
The Center Head
GENEX SOFTWARE SOLUTIONS,
Visakhapatnam

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Computer Science and Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.


Name of the project	Duration	Department	Estimated cost
Active Fusion Of College	2015-2016	Computer Science and Engineering	15000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD
Dept. of CSE,
AIET,
Tagarapuvalasa,
Vizianagaram District.




Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Committed for achieving Excellence in Technical Education



GeneX Software Solution

Pent House, Varanasi Majistic,, Opp. PizzaHut, DwarakaNagar 2nd lane,

Visakhapatnam, Andhra Pradesh 530016

Tagarapuvalasa,

Date:18-11-2015.

To,

The Principal,

Avanthi Institute of Engineering and Technology,

Cherukupally(V),Bhogapuram(M)

Vizianagaram, Dt.

Sub: Acceptance of proposal-Reg

Respected sir/madam

We would like to thank you for your project proposal. After a careful analysis, we have decided to grant you permission to begin work.

We are greatly appreciative students of Avanthi Institute of Engineering Technology, hard work and cooperation with us on this project. We thank you for your consideration in this matter and will be on the lookout for your prompt response

We are happy to be associated with the project and will continue to give the necessary guidance.

Project Manager,
GENEX SOFTWARE SOLUTION,
VISAKHAPATNAM.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Q7)
(Approved by AICTE, Recognized by Govt of A.P & Permanently Affiliated to JNTUK , Kakinada)
Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162
www.avanthi.ed.in, Email:hodese@aietta.ac.in

From

Date:12-03-2016.

Head of the Department

Avanthi Institute of Engineering and Technology

Cherukapally Bhogapuram

Vizianagaram.

To

GeneX Software Solutions,

Vishakhapatnam.

Sub: Project completion report Req-Regd.

I am writing to inform you that the "ACTIVE FUSION OF COLLEGE" project has been completed
Please let me know if you have any further questions or any feedback related to the completion.

Here I am attaching the details of Project Expenditure below

I expect to hear from you soon. Thank you.

Particulars	Cost
Research Lab Maintenance	3000
Stationary	2000
Appreciation prize for students	5*2000
Total	15000

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

Naming conventions and Definitions

Application: Active Fusion of college

Company: GeneX Solutions

Project Objective:

The active fusion of college is dispatch by an administrator of the organization people, Who takes care of data for the user's having user id. The administrator will be maintaining the information through computer. The android application would access the internet for uploading the information. The users are of 3 types such as students, faculty and principal. These 3 users share information via a wireless internet connection on an Android device.

The user gets the required information from the database and gives feedback or complaint to administrator for rectification. The administrator gets respond to the user's problem like invalid password, user id or any other pupation. The administrator can only have rights to insert/delete update data in individual profiles for the users. The users would be provided with an easy to android application.

Project Definition:

The application consists of the following modules.

1. Administrative

2. User

- Principal
- Faculty

- Student

Responsibilities of administrative Module:

- Provide login to the users.
- Maintain the user details and his entire data.
- Update the data to the database.

Responsibilities of user Module:

- View their account with the user id provided to him by the administrator.
- Checks the information in his account.
- Checks the information updated by the admin.

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chinnivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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☎ : 08933-226739

: 9705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa

Date: 27-10-2015

To

The Director,

Green Energy life Solutions,

Hyderabad

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg

We are very much delighted to convey that we have been developing various projects by the students of Electrical and Electronics Engineering in our college. As a part of it we are enthusiastic to submit the proposal for your support/sponsorship for developing the project at our college premises.

Name of the Project	Duration	Department	Estimated Cost
Foot step power generation using Piezoelectric Sensor	2015-16	EEE	Rs 10000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of EEE,
AIET

Principal
AIET,
Tagarapuvalasa,
Vizianagaram Dt.

Enclosed Project Proposal details

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Recognised by Govt of A.P & Permanantly Affiliated to JNTUK, Kakinada)
Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162
www.avanthi.edu.in www.aictte.ac.in Email : avanthispark@gmail.com
Department of Electrical & Electronics Engineering

PROJECT TITLE: Footstep Power Generation System Using Piezoelectric Sensor

PROJECT GUIDE: Mr. D. DHANA PRASAD, M.TECH

ABSTRACT:

Now a day's energy and power are the one of the necessities regarding this modern world. As the demand is increasing day by day, so the ultimate solution to deal with these sorts of problems is just to implement the renewable resources of energy. The objective of this work is power generation through footsteps as a source of renewable energy that we can obtained while walking on to the certain arrangements like footpaths, stairs, plate forms and these systems can be install elsewhere specially in the dense populated areas.

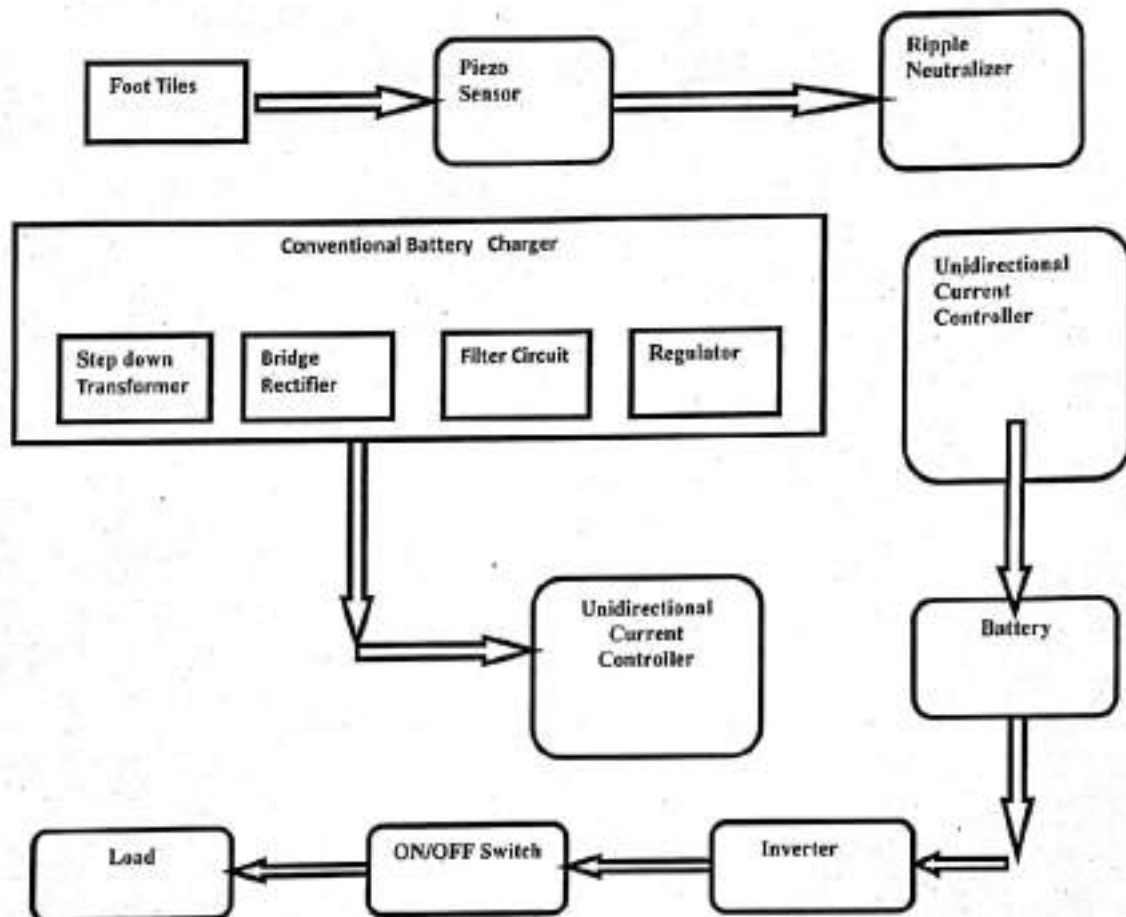
We can implement this footstep power generation system by generating the additional power by the heat it can be obtained by the load using the piezoelectric effect. Because of completing the above procedure or technique, we made ourselves able to design such compatible system through which we could run our home appliances through AC output. As our main purpose was to charge the battery through DC output and then by inverting it into AC for normal common usage. Thus, as a result we have concluded that the types of designs and techniques of power generating systems are very useful and handy in order to match the supply and demand of energy globally as well.

Benefit of mankind or we use it destructively to harm others. Alternative energy resources are not based on fossils fuels or atom distribution.



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www.avanthi.edu.in www.aletta.ac.in Email : avanthispark@gmail.com
Department of Electrical & Electronics Engineering

Block Diagram for Foot Step Power Generation System



Project Associates:

- | | |
|--------------------|------------|
| 1. K.Spandana | 12Q71A0223 |
| 2. A.Gireshh Kumar | 12Q71A0201 |
| 3. K.Venkata Naidu | 12Q71A0222 |
| 4. G.Vinod | 12Q71A0216 |

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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CHERUKUPALLY(V), NEAR TAGARAPUVALASABRIDGE, VIZIANAGARAM DIST-531162
www.avanthi.edu.in, www.aletta.ac.in

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PROJECT COST ESTIMATION

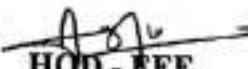
Name of the Project :

FOOT STEP POWER GENERATION

Components Required

S.No.	Description of Item	Qty Reqd.	Unit Rate	Total Amount
1	PIC 16F877A	2	395.00	790.00
2	MOSFET: IRF 540	4	26.00	104.00
3	TRANSISTOR: BC 547	10	3.00	30.00
4	Capacitors : [22 μ , 1nF, 0.1 μ F, 10 μ F, 1 μ F]	6	30.00	180.00
5	Relay	3	70.00	210.00
6	Resistor: [1M Ω , 1K Ω , 100K Ω , 240 Ω]	6	25.00	150.00
7	Piezzo elements	3	100.00	300.00
8	Voltage Regulator : LM016L	3	70.00	210.00
9	X1 Crystal Piezo material	3	20.00	60.00
10	SPST Switch	2	20.00	40.00
11	diode (IN4007)	10	2.00	20.00
12	Battery (12V lead Acid)	2	400.00	800.00
13	4.7K POT	4	20.00	80.00
14	Inverter	3	70.00	210.00
15	LCD Board	3	500.00	1,500.00
16	PIC 16F877A development board	1	3,456.00	3,456.00
Total				8,140.00
Workmanship (25% of the above amount)				2,035.00
Budget Proposed				10,175.00
Total Amount (Rounded Off)				10,000.00


Project Guide


HOD - EEE



Dt. 21-01-2016

To
The Principal
Avanthi Institute of Engineering and Technology
Cherukupally(V),Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
Foot step power generation using Piezoelectric Sensor	2015-16	EEE	Rs.10000

The above mentioned project shall be completed on or before (Date)

Details related to the project specifications and payment mode have been mentioned in the attachment
Maintenance and Project handling details shall be discussed later

Mr.G.Srinivas will be our single point of contact for any support required.

Hoping for a healthy association and looking forward to get associated with your institution.





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

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: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa

Date: 26-03-2016

To

The Director,

Green Energy life Solutions,

Hyderabad

Subject: Completion of the Project- "Foot step power generation"

Dear Sir,

We are pleased to inform you that we will complete the Project "Foot step power generation" in the desired time. It has been a great achievement by us to complete the project on time and with the current pace of work it is anticipated that the project work, report and left overs will be completed within a week.

It has been a great privilege working in association with you and looking forward to work with you in the future projects.

We would like to inform you to please clear our payments left with you at the completion of the work so that we could be able to pay our project Associates in the agreed time.

Looking forward to a quick response from your side.

Thanking you and assuring you our best services at times.

Yours truly,

HOD

Dept. of EEE,

AIET

Head of The Department
Dept. Electrical & Electronics Engineering
Avanathi Institute of Engg. & Tech.
Cherukupally(V), Chittivalasa (SAO),
Bhogapuram(M), Vizianagaram(Dist)-531 162

Principal

AVANTHI INSTITUTE OF ENGG & TECH
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 162

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Fax : 0891-6667321

Date: 16-03-2016

To
The Project Manager,
JK Cycle store,
Visakhapatnam.

Sub: Completion of the project- Flexible E-Vehicle.

Respected Sir,

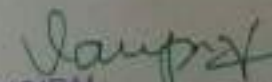
We are pleased to inform that the project "Flexible E-Vehicle" has been completed on 11/03/2016. It has been a great achievement by us to complete the prestigious project on time.

It has been a great privilege, working in association with you and looking forward to work with you in the future projects.

We would like to inform you to please clear our payments left with you, at the completion of the work, so that we could be able to pay our project associates in the stipulated time.

Looking forward to a quick response from your side.

Thanking you Sir,


PRINCIPAL
AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
Cherukupally (V), Chittivalasa (SO),
Bhogapuram (M),
Vizianagaram (Dist.) - 531162

With Regards,

PRINCIPAL

Committed for achieving Excellence in Technical Education



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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(APPROVED BY AICTE, RECOGNISED BY GOVT OF A.P. & AFFILIATED TO JNTU, KAKINADA)

CHERUKUPALLY(V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162

WWW.AVANTHIINSTITUTE.IN WWW.AICTE.INDIA

DEPARTMENT OF MECHANICAL ENGINEERING

PROJECT TITLE: Flexible E-Vehicle

PROJECT GUIDE: P. Anil Kumar, M. Tech

ABSTRACT:

Now days, most of the industries prefers eco-friendly technology, which may increase their productivity and increase their brand name. Due to having more pollution in environment UNO decided to start a mission on reduction of pollution which mostly caused by exhaust gases from industries, vehicles, plastics etc. Having view on increasing productivity of industries with simultaneously reducing pollution causing cases engineers started research.

A great revolution started in vehicle industries to reduce pollution causing by them and started introducing eco-friendly vehicle namely E-Vehicles. name itself shows that whole working of vehicles depends on electrical energy. Day by day increasing technology started thinking on flexibility factor in vehicles which leads to make step forward by industries to produce eco-friendly vehicles with having flexibility characters in it. Advance technology marked its trend on markets by producing different designs in vehicle which is being comfortable to the customers. Due to using E-Vehicles, vehicle should be in less weight which is more plus point in view of industries to attract customers. Less weight vehicle with no pollution as well as with flexibility (folding of vehicle) to reduce space required to park it.

Keeping the above concept in consideration, our project is aimed to design and manufacture of flexible E-Vehicle which can easily control by any age persons.

Project Associates:

B. HARI KRISHNA	(13Q75A0303)
K. SAILAJA	(12Q71A0352)
K. DINESH	(12Q71A0355)
B. VENKATESH	(12Q71A0313)
B. DHANRAJ SEKHAR	(12Q71A0316)

BUDGET ESTIMATION

Name of the Project :

Flexible E-Vehicle

Components Required

S.No.	Description of Item	Qty Reqd.	Unit Rate	Total Amount
1	Lead Acid Battery 9AH, 24V	1	2,600.00	2,600.00
2	Charger(Portable) 5AH, 220V, 50HZ	1	2,700.00	2,700.00
3	Hub Motor (Brushless)- 250 Watt	1	1,900.00	1,900.00
4	Torque Sensors (Pas Sensor)	1	550.00	550.00
5	Accelerator - Full Twist Throttle	1	280.00	280.00
6	Front Brake -Mechanical Disc	1	280.00	280.00
7	Rear Brake - Drum Brake	1	180.00	180.00
8	External Gears-6	1	650.00	650.00
9	Wheels - Tube Tyre- 26 inch	2	800.00	1,600.00
10	Rim- Alloy - 26 inch	2	1,950.00	3,900.00
11	Control Unit	1	1,200.00	1,200.00
12	Pedal Assist	1	260.00	260.00
13	Thumb Throttle	1	650.00	650.00
14	Gear Shifter	1	850.00	850.00
15	Silicone Saddle	1	190.00	190.00
16	Stand	1	190.00	190.00
17	Main Frame	1	1,650.00	1,650.00
18	Supporting Frame	1	1,000.00	1,000.00
19	Handle Bar	1	300.00	300.00
Total				20,930.00
Workmanship (20% of the above amount)				4,186.00
Budget Proposed				25,116.00
Total Amount (Rounded Off)				25,000.00

Project Guide

HOD - Mechanical

JK Cycle Store

Date: 11/10/2015

Visakhapatnam.

To

The Principal

Avanthi Institute of Engineering & Technology

Cherukupalli

Vizianagaram

Sub: Fund Approval for Flexible E-Vehicle

Dear Sir,

It gives us immense pleasure to confirm you that we are impressed with your students presentation and are interested in funding their project, under the esteemed guidance of Shri. P. Anil Kumar (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 25,000.00 (appx.).

So, we are happy to grant an advance of Rs. 10,000.00, to initiate the project and as per the actual, the remaining amount shall be funded as per the project requirement.

With Regards

K. K. R. Raju
Proprietor 11/10/15



Pedagantyada, Visakhapatnam - 530044 Bicycle Dealers



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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: 0891-6667320
Fax : 0891-6667321

Tagarapuvalasa
Date: 24-08-2015

TO,
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

Name of the project	Duration	Department	Estimated cost
ANTI THEFT ALARM MACHINE USING ARUDINO	2015-2016	Electronics and Communication Engineering	19000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

PRINCIPAL
AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 163

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CHERUKUPALLY(V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
08933-226739, www.aietta.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ANTI THEFT ALARM MACHINE USING ARUDINO BUDGET PROPOSAL
2015-2016

Tagarapuvalasa
Date: 24-08-2015

TO,
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

Respected Sir

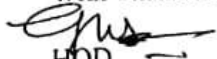
Sub: Proposal for support/sponsorship for developing project-reg.


We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

S. NO	COMPONENT NAME	COST
1	ARDUINO UNO	5000
2	VIBRATION SENSOR	3000
3	GSM MODEM	2500
4	LDR	300
5	BUZZER	100
6	DC MOTOR	2400
7	L293D	200
8	ARDUINO UNO(SOFTWARE)	2900
9	PCB BOARD	200
10	CONNECTING WIRES	100
11	POWERSUPPLY BOARD	100
12	MANPOWER	2200
	TOTAL	19000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.


Principal
AIET,
Tagarapuvalasa.
Vizianagaram District.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (NBA ACCREDITED)

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CHERUKUPALLY(V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
08933-226739, www.aicet.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT TITLE: ANTI-THEFT ATM ALARM MACHINE USING AUDINO

PROJECT GUIDE: Dr V S V PRABHAKAR

STUDENTS:

K PAVANI (12Q71A0455)

A MANIKANTA (12Q71A0404)

J SAI KIRAN (12Q71A0452)

B BHAVANI SHANKAR (12Q71A0416)

Abstract:

The idea of designing and implementation of security based ATM theft project is born with the observation in our real life incidence happening around us.

This project deals with prevention of ATM theft from robbery, so to overcome the drawback found in existing technology in our society. Whenever robbery occurs, vibration of sensor is used, which senses vibrations produced from ATM machines. Once the vibration is sensed the beep sound will occur from the buzzer. DC motor is used for closing the door of ATM. RTC used to capture robber occur time and send the robbery occur time with the message to the near by police station and corresponding bank through the GSM. Here the LCD displays board using showing the output of the message continuously. This will prevent the robbery and person involving in robbery can be easily caught.

Tagarapuvalasa

Date: 23-12-2015

To,

The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally(V),Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
ANTI THEFT ALARM MACHINE USING ARUDINO	2015-2016	Electronics and Communication Engineering	19000

The above mentioned project shall be completed on or before (Date)

Details related to the project specifications and payment mode have been mentioned in the attachment
Maintenance and Project handling details shall be discussed later

Hoping for a healthy association and looking forward to get associated with your institution.

CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinada)
Cherukupally Village, Chittavalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08933-226739

: 0705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa
Date: 29-10-2016

To
The Center Head
TRIENT TECHNOLOGIES,
Visakhapatnam

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Computer Science and Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.


Name of the project	Duration	Department	Estimated cost
Face Recognition Based Attendance System	2016-2017	Computer Science and Engineering	20000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,


HOD,
Dept. of CSE,
AIET,
Tagarapuvalasa,
Vizianagaram District.




Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details



#9-42-20, Balaji Nagar, Near SBI Zonal Office, Siripuram, Visakhapatnam-03.

Tagarapuvalasa,

Date: 04 11 2016.

To,

The Principal,

Avanthi Institute of Engineering and Technology,

Cherukupally(V), Bhogapuram(M)

Vizianagaram, Dt.

Sub: Acceptance of proposal-Reg

Respected sir/madam

CONGRATULATIONS, Based on the information furnished by you. We are pleased to inform you that you have been approved to start a project.

It will be appreciated if Students of Avanthi Institute of Engineering Technology make this project a success in the allotted time.

I request you to make the payment from your side and later on producing the bill we shall reimburse the entire amount.

In case of any other queries, please get in touch with us.

We are happy to be associated with the project and will continue to give the necessary guidance.

CENTER HEAD

TRIENT TECHNOLOGIES,

VISAKHAPATNAM





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Q7)
(Approved by AICTE, Recognized by Govt of A.P & Permanently Affiliated to JNTUK , Kakinada)
Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162
www.avanthi.ed.in, Email:hodese@aietta.ac.in

Date:23-02-2017.

From

Head of the Department

Avanthi Institute of Engineering and Technology

Cherukupally Bhogapuram

Vizianagaram.

To

Trient Technologies,

Vishakhapatnam.

Sub: Project completion report Req-Regd,

I am writing to inform you that the "FACE RECOGNITION BASED ATTENDANCE SYSTEM" project has been completed. Please let me know if you have any further questions or any feedback related to the completion.

Here I am attaching the details of Project Expenditure below.

I expect to hear from you soon. Thank you.

Particulars	Cost
Research Lab Maintenance	2000
Stationary	2000
Appreciation prize for students for completion of projects	4*4000
Total	20000

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivalasa (S.A.O.)
Bhogapuram (M)
Vizianagaram (Dist.)

Project Details:


Project Name	Face Recognition Based Attendance System
Project Type	Multimedia Project
Project Sponsor	Trient Technologies

Project Objective:

The Face Recognition for marking attendance to students. The traditional way of taking attendance is usually time consuming and prone to human errors. to overcome the drawbacks of the existing system and automate the entire process. The idea is to initially capture face images of all the students and arrange them in the order of their roll number. This set of face images for each student forms the training dataset. It is essential that access to the dataset is given by means of some authorization to avoid any cases of fake attendance. Once the training dataset is ready, the system is built so that the face images of each student are taken every day and each face is compared to the faces in the dataset. Face recognition is now performed and the corresponding roll numbers are marked present.

Project Details:

Training the Dataset	In this phase, the acquisition, Pre-processing and detection of face images that are going to be added to the dataset are performed
Capturing the image and marking the attendance	In this phase, the acquisition, pre-processing, detection of face images that are going to be used for recognition and marking the attendance.
Integrating the two modules	The execution of both the modules is done in Java. Function will be invoked in Java and the background processing is done in MAT LAB and the output would be returned to Java which is finally displayed. The interfacing from Java to MATLAB is achieved through Mat lab Proxy class. All these classes are internally defined in matlabcontrol.jar file. Once this library has been added to the project, an object can be created and using this object, function can be invoked by including the necessary parameters in the argument.


AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (Vill), Chittivallasa (S.A.O.)
Cherukupally (Vill), Chittivallasa (S.A.O.)
Bhogapuram (Dist)
Vizianagaram (Dist)



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

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Fax : 08933-226739
: 0891-2748231
: 0891-6667320
Fax : 0891-6667321

Tagarapuvalasa
Date: 27-08-2016

To
The Director,
Innovative Systems,
Hyderabad

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg

We are very much delighted to convey that we have been developing various projects by the students of Electrical and Electronics Engineering in our college. As a part of it we are enthusiastic to submit the proposal for your support/sponsorship for developing the project at our college premises.

Name of the Project	Duration	Department	Estimated Cost
Home Automation & Energy Monitoring	2016-17	EEE	Rs 25000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of EEE,
AIET

Principal
AIET,
Tagarapuvalasa.
Vizianagaram Dt.

Enclosed Project Proposal details

PRINCIPAL
AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-5311 162

Committed for achieving Excellence in Technical Education



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognised by Govt of A.P & Permanantly Affiliated to JNTUK, Kakinada)

Cherukupally(V), Near Tagarapuvalasa Bridge, Vizianagaram Dist-531162

www.avanthi.edu.in, www.aletta.ac.in Email : avanthispark@gmail.com

Department of Electrical & Electronics Engineering

PROJECT TITLE: Home Automation and Energy Monitoring

PROJECT GUIDE: Ms. VENKATA RATNAM M.TECH

ABSTRACT:

In this project mainly integrating the electrical parameters by using IOT. IOT or internet of things is an upcoming technology that allows us to control hardware devices through the internet. Here we propose to use IOT in order to control home appliances, thus automating modern homes through the internet.

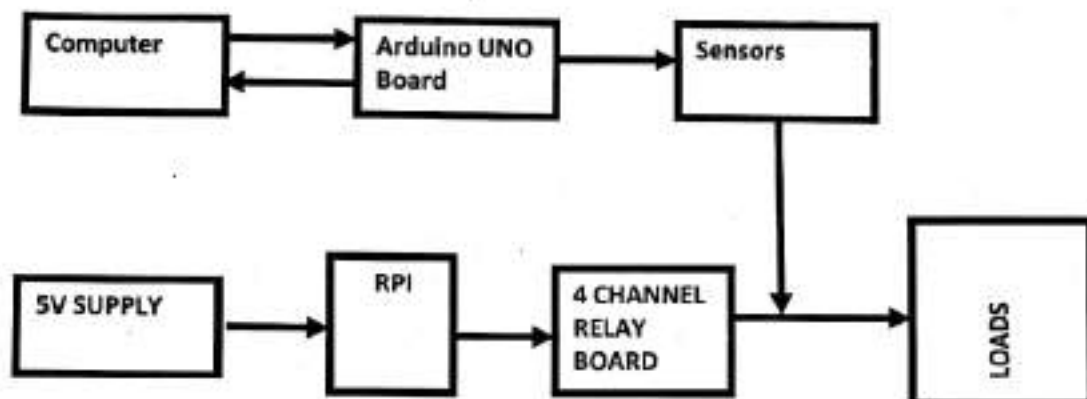
The load status(ON or OFF) and monitoring electrical parameters(active power, reactive power, apparent power, power factor, no. of units consumed and tariff) will be displayed on the web page. This system uses as industrial, domestically appliances like lighting a fan and drives. Our user friendly interface allows a user to easily control these home appliances through the internet.

The load can be controlled and monitored using a web page with user configurable front end. The user can send commands through the allotted IP and these commands are fed to Wi-Fi module. The commands received by a Wi-Fi module are executed by a program within Wi-Fi module. The ESP 8266 WI-FI module is interfaced to a raspberry pi and ESP8266 is load commands to the raspberry pi through the loads are turned ON & OFF based on command



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www.avanthi.edu.in www.aletta.ac.in Email : avanthispark@gmail.com
Department of Electrical & Electronics Engineering

Block Diagram for Home Automation and Energy Monitoring



Project Associates:

- | | |
|--------------------|------------|
| 1. J.Praveen Kumar | 13Q71A0209 |
| 2. K.Yedukondalu | 14Q75A0211 |
| 3. T.S.K.Bhupati | 13Q71A0224 |
| 4. A.Vamsi Krishna | 13Q71A0201 |
| 5. M.Naresh | 14Q75A0219 |

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
 (APPROVED BY AICTE, RECOGNISED BY GOVT OF A.P. & AFFILIATED TO JNTU, KAKINADA)
 CHERUKUPALLY(V), NEAR TAGARAPUVALASABRIDGE, VIZIANAGARAM DIST-531162
 www.avanthi.edu.in, www.aietta.ac.in
 DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PROJECT COST ESTIMATION

Name of the Project :

HOME AUTOMATION & ENERGY MONITORING

Components Required

S.No.	Description of Item	Qty Reqd.	Unit Rate	Total Amount
1	Raspberry Pi	2	4,000.00	8,000.00
2	Arduino UNO Board	3	1,689.00	5,067.00
3	4 Channel relay Board	4	200.00	800.00
4	Sensors trans./rec.	10	10.00	100.00
5	Resistors 330Ω, 470Ω	5	120.00	600.00
6	Capacitor 10μF	5	80.00	400.00
7	connecting Jumpers	10	199.00	1,990.00
8	USB 5V FTDI convertor	2	600.00	1,200.00
9	Current Sensor	2	450.00	900.00
10	Bread Board	5	130.00	650.00
Total				19,707.00
Workmanship (25% of the above amount)				4,926.75
Budget Proposed				24,633.75
Total Amount (Rounded Off)				25,000.00

G. Venkatesh Kumar
 Project Guide

[Signature]
 HOD - EEE

Innovative Systems

Towards Quality Service



E-mail: innovative_systems@rediffmail.com

H. No.1-7-202, South Kamalanagar,
E.C.I.L. Post, Hyderabad - 500062

DT:28.11.2016

To
The Principal
Avanthi Institute of Engineering and Technology
Cherukupally(V),Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam,

Based upon your request and project details submitted, our team has expressed their willingness to extend our financial support to your institution for the completion of below mentioned project.

Name of the Project	Duration	Department	Estimated Cost
Home Automation & Energy Monitoring	2016-17	EEE	Rs 25000

We are also hereby request to submit the project completion details from time to time.
Amount shall be released in installments based on the recommendations of our technical team.
Our organization reserves all the rights to stop funding at any point of time if we notice any diversified intension.

We hope that your institution shall abide by rules and regulations and complete the project by meeting all deadlines.

Looking forward for the association and hoping for a mutual co-operation.





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by the Govt. of A.P. & Permanently Affiliated to JNTU, Kakinda)

Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08933-226739

: 9705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa
Date:20-03-2017

To
The Director,
Innovative Systems,
Hyderabad

Subject: Completion of the Project- Home Automation & Energy Monitoring

Dear Sir,

We are pleased to inform you that we will complete the Project "Home Automation & Energy monitoring" in the desired time. It has been a great achievement by us to complete the project on time and with the current pace of work it is anticipated that the project work, report and left overs will be completed within a week.

It has been a great privilege working in association with you and looking forward to work with you in the future projects.

We would like to inform you to please clear our payments left with you at the completion of the work so that we could be able to pay our project Associates in the agreed time.

Looking forward to a quick response from your side.

Thanking you and assuring you our best services at times.

Yours truly,

HOD

Dept. of EEE
Head of The Department
Dept. Electrical & Electronics Engineering
Avanthi Institute of Engg. & Tech.
Cherukupally(V), Chittivalasa (SAO),
Bhogapuram(M), Vizianagaram(Dist)-531162

Principal
AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally(V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 162

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Cherukupally Village, Chittivalasa (SO), Bhogapuram, Vizianagaram Dist. - 531 162

☎ : 08933-226739

: 9705169740

Fax : 08933-226739

: 0891-2748231

: 0891-6667320

Fax : 0891-6667321

Tagarapuvalasa

Date: 19-09-2016

TO,
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

Respected Sir

Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

Name of the project	Duration	Department	Estimated cost
GSM BASED HOME AUTOMATION SYSTEM USING ARUDINO	2016-2017	Electronics and Communication Engineering	14000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.

With Thanks and Regards,

HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.

Enclosed Project details

Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.

AVANTHI INSTITUTE OF ENGG & TECH.
Cherukupally (V), Chittivalasa (SAO)
Bhogapuram (M),
Vizianagaram (Dist.)-531 163

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AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY AICTE, RECOGNIZED BY GOVT OF A.P & PERMANENTLY AFFILIATED TO JNTU, KAKINADA)
CHERUKUPALLY (V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
08933-226739. WWW.AIETVJEE.ORG

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING **GSM BASED HOME AUTOMATION SYSTEM USING ARUDINO BUDGET**

PROPOSAL

2016-2017

Tagarapuvalasa
Date: 19-09-2016

TO,
THE CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM

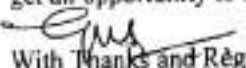
Respected Sir


Sub: Proposal for support/sponsorship for developing project-reg.

We are very much delighted to convey that we have been developing various projects by the students of Electronics and Communication Engineering in our college. As a part of it we are enthusiastic to submit the proposal for support/sponsorship for developing the project at our college premises.

S. NO	COMPONENT NAME	COST
1	ARDUINO 328P	4500
2	RELAY	100
3	GSM/GPS MODEM	3500
4	LCD	150
5	BUZZER	100
6	POWER SUPPLY	150
7	ARDUINO UNO(SOFTWARE)	2900
8	PCB BOARD	200
9	CONNECTING WIRES	100
10	POWERSUPPLY BOARD	100
11	MANPOWER	2200
	TOTAL	14000

We are waiting for your positive response to go ahead for further proceedings and hope to get an opportunity to serve you the best.


With Thanks and Regards,
HOD
Dept. of ECE,
AIET,
Tagarapuvalasa,
Vizianagaram District.


Principal
AIET,
Tagarapuvalasa,
Vizianagaram District.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(APPROVED BY AICTE, RECOGNIZED BY GOVT OF A.P & PERMANENTLY AFFILIATED TO JNTU, KAKINADA)
CHERUKUPALLY (V), NEAR TAGARAPUVALASA BRIDGE, VIZIANAGARAM DIST-531162
08933-226739, www.aicet.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT TITLE: GSM BASED HOME AUTOMATION USING AUDRINO

PROJECT GUIDE: Dr G. V. SRIDHAR

STUDENTS:

K SUSEELA DEVI (14Q75A0411)

V BHANU (14Q75A0422)

A GANESH (14Q75A0403)

P YADAGIRI (13Q71A0449)

Abstract:

Mobile phone is a revolutionary invention of the century. It was primarily designed for making and receiving calls and text messages, but it has become the whole world after the smart phone comes into the picture. In this project we are building home automation system where one can control the home appliances, using the simple GSM based phone, just by sending SMS through his phone. In this project, no smart phone is needed; just the old GSM phone will work switch ON and OFF any home electronic appliances, from anywhere.

In present time there are many types of home automation systems available in our market. Most of these are simple home appliances controlling systems like DTMF controlled home appliances, IR remote based home appliances controlling, RF home appliances controlling. And here we are going to discuss about GSM based home/office appliances control (HOME AUTOMATION SYSTEM).

This is very common system, in which users can also use this system at farm house and house, offices for filling the water tanks. This system can also be used for start motor or stop motor at defined time when water supply available.

Tagarapuvalasa

Date: 22-08-2016

To,

The Principal,
Avanthi Institute of Engineering and Technology,
Cherukupally(V), Bhogapuram (M)
Vizianagaram Dt.

Sub: Extension of Support /Sponsorship Details-Reg.

Respected Sir/Madam

Based on the recent visit to your institution our expert committee has expressed their satisfaction towards your infrastructure facilities. The committee has also recommended your institution to sanction the work order for below mentioned project

Name of the Project	Duration	Department	Estimated Cost
GSM BASED HOME AUTOMATION SYSTEM USING ARUDINO	2016-2017	Electronics and Communication Engineering	14000

The above mentioned project shall be completed on or before (Date)
Details related to the project specifications and payment mode have been mentioned in the attachment
Maintenance and Project handling details shall be discussed later
Hoping for a healthy association and looking forward to get associated with your institution.

CENTER HEAD,
MATCHWELL TECHNOLOGY SOLUTIONS,
VISAKHAPATNAM



Well Tech Refrigeration & Air Conditioning

Date: 14/08/2014

Visakhapatnam.

To

The Principal

Avanthi Institute of Engineering & Technology

Cherukupalli

Vizianagaram

Sub: Fund Approval for Home Made Air Conditioning Unit

Dear Sir,

It gives us immense pleasure to confirm you, about the proposal for the impressive presentation and are interested in funding their project, under the esteemed guidance of Shri.S. K. Sharief (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 10,000.00 (appx.).

So, we wish to grant an advance of Rs. 3,000.00, to initiate the project and as per the actual, the remaining amount shall be funded as per the project requirement.

With Regards

P. Ramu
14/8/2014



Address: #9-15-6B, 75 Feet Service Rd, CBM Compound, Asilmetta, Visakhapatnam,
Andhra Pradesh 530013 ; Phone: 093481 97126



EQUIPMENTS & SPARES ENGINEERING (I) PVT LTD.

Mr. N. Ganapathi Rao
Tel No. : 0891-2532285
Email ID: vizag@eqsp.net

Mobile no: +91- 982909258
Fax No. : 0891- 2532285

Date: 18/09/2017
Visakhapatnam.

To
The Principal
Avanthi Institute of Engineering & Technology,
Cherukupalli,
Vizianagaram.

Sub: Fund Approval for Air Car

Dear Sir,

It's our immense pleasure to inform you about the confirmation for the project proposal for the **Air Car** which are presented by your student that are impressive and are interested in funding their project, under the esteemed guidance of Mr. P. Anil Kumar (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 25,000.00 (approx.).

So, we are happy to grant an advance of Rs. 10,000.00, to initiate the project and as per the actual, the remaining amount shall be funded as per the project progress and requirement.

With Regards

For Equipments & Spares Engineering (I) PVT LTD


Mr. N. Ganapathi Rao



Address: Flat # 404, IV Floor, Sampath Enclave, L&T Office Road, Dwaraka Nagar,
Visakhapatnam, Andhra Pradesh 530016

Date: 15/09/2014

Visakhapatnam.

To

The Principal

Avanthi Institute of Engineering & Technology

Cherukupalli

Vizianagaram

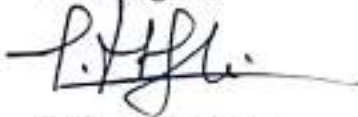
Sub: **Funding for SEGWAY HT**

Dear Sir,

We are happy to confirm you, that we are impressed with your student's presentation and are interested in funding their project, under the esteemed guidance of Mr. M. Venkatesh (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 20,000.00 (appx.).

So, we wish to grant an advance of Rs. 10,000.00, to start the project and as per the actuals, the remaining payment shall be provided as per the project requirement.

With Regards



Projects In charge



Address: Dwarakanagar Rd, Visakhapatnam, Andhra Pradesh 530004 ;
Phone: +91-95055 69998, +91-9948288886

SRI SRINIVASA SHEET METAL WORKS

G. Srinivasa Rao
Proprietor

Cell: 9246699019
Ph: 0891-6459019
6069019

e-mail: svsheetmetalworks@gmail.com

Date: 21/08/2015

Visakhapatnam.

To,

The Principal,

Avanthi Institute of Engineering & Technology,

Cherukupalli,

Vizianagaram.

Sub: Funding Approval for Pneumatic Sheet Cutting Machine

Dear Sir,

It gives us immense pleasure to confirm you, that we are impressed with your students presentation and are interested in funding their project, under the esteemed guidance of Miss M. Lakshmi Sramika (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 22,000.00 (appx.).

So, we are happy to grant an advance of Rs. 10,000.00 , to initiate the project and as per the actuals , the remaining amount shall be funded as per the project requirement.

With Regards


G. Srinivasa Rao
(Proprietor)



Mfrs: Almarahs, Slotted Angle Racks, Wall Cup Boards, Safe Lockers , Trunk Boxes , Fire House Boxes
Buckets, Hotel Ducting Works, Fabrication works & all kinds of Sheet Metal Process.
#27-16-1/1, Durga Colony, Near Poorna Market, Visakhapatnam – 02



EQUIPMENTS & SPARES ENGINEERING (I) PVT LTD.

Mr. N. Ganapathi Rao
Tel No. : 0891-2532285
Email ID: vizag@eqsp.net

Mobile no: +91- 982909258
Fax No. : 0891- 2532285

Date: 22/07/2014
Visakhapatnam.

To
The Principal
Avanthi Institute of Engineering & Technology,
Cherukupalli,
Vizianagaram.

Sub: Approval of Funds for Compressor Air Engine

Dear Sir,

It's our immense pleasure to inform you about the confirmation for the project proposal for the **Compressor Air Engine** which are presented by your student that are impressive and are interested in funding their project, under the esteemed guidance of Mr. B. VENKATA NAIDU (project guide). As discussed earlier and as per the presentation, the tentative budget/ fund required for the project is 30,000.00 (approx.).

So, we are happy to grant an advance of Rs. 10,000.00, to initiate the project and as per the actual, the remaining amount shall be funded as per the project progress and requirement.

With Regards

For Equipments & Spares Engineering (I) PVT LTD


Mr. N. Ganapathi Rao



**Address: Flat # 404, IV Floor, Sampath Enclave, L&T Office Road, Dwaraka Nagar,
Visakhapatnam, Andhra Pradesh 530016**