

In-house Grants for Research Projects

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government /non-Government)
Design and Development of Green Trolley	Mr. Kamal Kumar Ojah	Mech.	2019	30,000	1Year	Methodist Educational Society	Non-Government
Design of Multipurpose Unmanned Aerial Vehicle (UAV) – A Drone	N. Nireekshan and Dr. Raghu Chandra Garimella	EEE	2019	17,500	1Year	Methodist Educational Society	Non-Government
Academic Maintance Software	Mr. R Sandeep and Mrs.P Lavanya	CSE	2019	13,250	2 Years	Methodist Educational Society	Non-Government
Abrasive Jet Machine	Y, Madhu Maheswara Reddy	Mech.	2018	50,000	1Year	Methodist Educational Society	Non-Government
Assembly of Go-kart	Dr.Md. Fakhruddin H.N.	Mech.	2017	50,000	1Year	Methodist Educational Society	Non-Government
Fatigue testing machine	Y, Madhu Maheswara Reddy	Mech.	2016	30,000	1Year	Methodist Educational Society	Non-Government
Fabrication of Suitcase Car	Dr. U.S.Varaprasad & Dr.Md. Fakhruddin H.N.	Mech.	2015	50,000	1Year	Methodist Educational Society	Non-Government
Fabricaton & Assembly of all-Terrain Vehicle (ATV)	Dr. U.S.Varaprasad & Dr.Md. Fakhruddin H.N.	Mech.	2014	70,000	1Year	Methodist Educational Society	Non-Government

07-01-2019.

NOTE

Submitted to the Director. Through Head- Mech. Engg.

Sir,

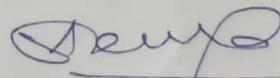
Sub: Request for permission and approval for the development of research facility in the Mechanical Engg. Dept. - Reg.

With reference to subject cited above I Kamal Kumar Ojha, Asst. Prof-MED, wish to develop 'DESIGN AND DEVELOPMENT OF GREEN TROLLEY' which can be useful to to move goods from one place to another. IV B.E Mechanical Engineering students are actively involved in this thrust area of the project work. The total expenditure for the above said project would cost is approximately Rs 30,000/-.

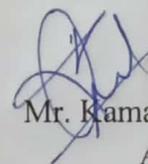
I am grateful to you sir if you kindly allow us to carry out this as in-house project and sanction us the afore mentioned amount at the earliest.

Thanking you

Forwarded to the
Director for consideration

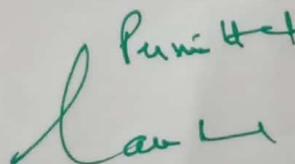

07/01/19
-A-D-M

Yours faithfully



Mr. Kamal Kumar Ojha
Asst. Professor

Department of Mechanical Engineering
Methodist College of Engg. & Tech.
Hyderabad.

Permitted


Methodist College of Engineering & Technology

(Affiliated to Osmania University - College Code 1607)



15-01-2019

With reference to the proposal submitted on 07-01-2019 by Mr.Kamal Kumar Ojha, Asst. Prof-MED to '**DESIGN AND DEVELOPMENT OF GREEN TROLLEY**' which will be useful to move goods from one place to another. The management has recommended the Methodist Church in India, which has approved the total expenditure for the above said project that would cost approximately Rs 30,000/-. (Rupees thirty thousand only)

A handwritten signature in green ink, appearing to read "L. Anil", is written above the title "Principal".

Principal

King Koti Road, Abids,
Hyderabad - 500 001. T.S. India.
Ph : 040-24753445, 24755999
www.methodist.edu.in

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY
INNOVATIONS AND ENTREPRENEURSHIP DEVELOPMENT CELL

Dr. RAGHU CHANDRA GARIMELLA
Coordinator, IEDC

Oct. 1, 2019

To
The Director
MCET

Dear Sir,

Sub: Requisition for provision of financial support for the IV EEE student batch for perceiving the project work entitled "Design of Multipurpose Unmanned Aerial Vehicle (UAV) – A Drone"...

In connection with final year project work, our IV EEE students (guiding by Sri Namburi Nireekshan, Assistant Professor, Department of EEE, and HOD/EEE) are planning to work upon the project based on drone technology. The proposed system mainly concentrates on development of UAV for **carrying weapons in defence sector**, which may further be used to convert as a **CONSULTANCY WORK**. Moreover, the students were also extending the design for irrigation purpose for watering the garden area using the proposed unmanned vehicle.

Our students made an approximate expenditure of about 35,660 INR (detailed list is attached herewith) for completion of this project. They have requested me for any possible financial support (at least about 50%) from the institution. Henceforth, I request you to provide the possible financial support as a token of encouragement from our side. I would be thankful to you for the same.

Thanking you,

Yours sincerely,


Dr. R. Raghu Chandra

Encl.: 1. Details of components proposed to develop the UAV
2. Abstract of the project

Recommendation &
Forwarded.

S. Venkatesh
4/10/2019

Prof. Namburi Nireekshan
order for components
may be placed on COD
50% will be provided
20% by institution
Mr. Santhosh
50% financial help may be
given. The student may also
approach TS COST with
financial assistance.
4/10

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY
INNOVATIONS AND ENTREPRENEURSHIP DEVELOPMENT CELL

Details of components required for the design of proposed unmanned aerial vehicle system:

Sl. No.	Name of the Component	Unit Price (INR)	Quantity Required	Total Price (INR)
1.	Frame (Eg.: S550)	2,600	1	2,600
2.	BLDC Motor	460	6	2,760
3.	Propeller	250	6	1,500
4.	Flight Controller	3,000	1	3,000
5.	Electronic Speed Controller	450	6	2,700
6.	Power Module	850	1	850
7.	Transmitter and Receiver (Sky Fly)	5,000	1	5,000
8.	First Person View (FPV) Camera	3,500	1	3,500
9.	FPV Monitor	3,000	1	3,000
10.	Gimbal	1,000	1	1,000
11.	GPS	3,000	1	3,000
12.	Telemetry	1,500	1	1,500
13.	Tank and Sprayer/Holder for carrying weapons	1,500	1	1,500
14.	Lipo Battery Charger	2,250	1	2,250
15.	Li-ion Battery (2200 mAh)	1,500	1	1,500
Total Approximate Expenditure				35,660


Mr. N. Nireekshan
Assistant Professor, EEE


B. Srikanth
160716734301


G. Naveen
160716734304


Sabiya Begum
160716734313

DESIGN OF MULTIPURPOSE UAV (UNMANNED AERIAL VEHICLE) – A DRONE

ABSTRACT

Drones may also be used for various applications other than agricultural activities, viz. House framing, Product delivery, Metal detectors, Geo surveys, Fire control and **mainly**, for **defence purpose**. In **Defence** fields, the proposed system will carry weapons to the required destinations without direct human interference. The proposed system will concentrate on carrying physical objects from one place to another place in addition to camera surveillance.

Moreover, based on the research made by Barbedo in his article Drones (2019) and Alok Kirloskar, Executive Director, Kirloskar Brothers Limited in his article 'Perspectives on India', it was estimated that about 40-50% amount of water might be saved, in case of substituting drones in the place of conventional methods.

India is mainly depending on the agriculture. Most of the population in our country are dependent on farming. There is a huge requirement of technology in agricultural lands for cultivation of various kinds of plantation. Some kinds of functions that requires technology during farming are spraying of pesticides, sprinkling water, observing the insects in denser greenery areas, etc. Incorporating a drone in agricultural fields will further reduce the time and money. This is due to the fact that an unmanned aerial vehicle may inspect the greeneries as and when required. Further, this technology may be modified further to spray or sprinkle the farms with water, which will deliberately reduce the wastage of water.

Major components adopted in the proposed system:

- ✕ BLDC motor
- ✕ Propeller
- ✕ Arduino based Flight Controller
- ✕ Transmitter and Receiver unit
- ✕ Electronic speed controller
- ✕ Li-ion Battery pack
- ✕ Power Module

We sincerely request the management of MCET to extend the financial support for making our dream (drone project) true.

B. Srikanth

B. Srikanth
160716734301

G. Naveen

G. Naveen
160716734304

Sabiya Begum

Sabiya Begum
160716734313



METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Osmania University, - College Code - 1607

Department of Computer Science & Engineering

Research & Development Cell

Dr. VUPPU PADMAKAR

Member, R & D

Ref: MCET/CSE/IIIC/2018-19/04

Date: 26-02-2019

To
The Director,
MCET

Respected Sir,

Sub: Requisition for provision of financial support for the IV CSE students batch for perceiving the project work entitled "Academic maintain software" - Reg.

In connection with final year project work, our IV CSE students (guiding by Sri. Sandeep R, Assistant Professor, Department of CSE, and HOD CSE) are planning to work upon the project based on different modules (like daily time table, attendance, marks.) The proposed software system mainly concentrates on development of attendance management system, which will send the SMS to the parent whether their ward in the college present or not and also send SMS for Internal marks. This software provides a login facility for parent, students, and faculty members.

Our students made an approximate expenditure of about 26,500 INR (detailed list is attached herewith) for completion of this project. They have requested me for any possible financial support(at least about 50%) from the institution. Henceforth, I request you to provide the possible financial support as a token of encouragement from our side. I would be thankful to you for the same.

Thanking you,

Yours sincerely

Dr. V. Padmakar
CSE Member R & D

Encl: 1. Details of requirements for AMS
2. Abstract of the project.

Mr Sachin
50% of the amount
may be reimbursed
Law
26/2

05-03-2018

NOTE

Submitted to the Director. Through Head- Mech. Engg.

Sir,

Sub: Request for permission and approval for the development of research facility in the Mechanical Engg. Dept. - Reg.

With reference to subject cited above I Y Madhu Maheswara Reddy, Asst. Prof-MED, wish to develop ABRASIVE JET MACHINE which can be useful to carry out the research project on 'ABRASIVE JET MACHINING'. This project will help the students in carrying the research work at UG, PG and Ph.D. level. III B.E Mechanical Engineering students are actively involved in this thrust area of the project work. The total expenditure for the above said project would cost is approximately Rs 50,000/-.

I am grateful to you sir if you kindly allow us to carry out this as in-house project and sanction us the afore mentioned amount at the earliest.

Thanking you

Forwarded to the Director
for consideration -

[Signature]
05/03/18
HOD - ME

Yours faithfully

[Signature]
Y Madhu Maheswara Reddy
Asst. Professor
Department of Mechanical Engineering
Methodist College of Engg. & Tech.
Hyderabad.

Approved
[Signature]

Methodist College of Engineering & Technology

(Affiliated to Osmania University - College Code 1607)



15-03-2018

With reference to proposal submitted on 05/03/2018 by Mr. Y Madhu Maheswara Reddy, Asst. Prof-MED, to develop **ABRASIVE JET MACHINE** which is useful to carry out the research project on 'ABRASIVE JET MACHINING". for UG, PG and Ph.D. level. The management of the college has recommended the Methodist Church in India which has approved the expenditure for the above said project i.e. Rs. 50,000/-. (Rupees fifty thousand only/-)

Y. Madhu 15/3/2018
Principal

06-04-2016.

NOTE

Submitted to the Director. Through Head- Mech. Engg.

Sir,

Sub: Request for permission and approval for the development of research facility in the Mechanical Engg. Dept. - Reg.

With reference to subject cited above I Y Madhu Maheswara Reddy, Asst. Prof-MED, wish to develop FATIGUE TESTING MACHINE which can be useful to carry out the research project on "FATIGUE TESTING". This project will help the students in carrying the experiments at UG, PG level. III B.E Mechanical Engineering students are actively involved in this thrust area of the project work. The total expenditure for the above said project would cost is approximately Rs 30,000/-.

I am grateful to you sir if you kindly allow us to carry out this as in-house project and sanction us the afore mentioned amount at the earliest.

Thanking you

Forwarded to the
Director for consideration.

Deena
06/04/16

Pani Heta
Lau

Yours faithfully

Y Madhu

Y Madhu Maheswara Reddy
Asst. Professor
Department of Mechanical Engineering
Methodist College of Engg. & Tech.
Hyderabad.

Methodist College of Engineering & Technology

(Affiliated to Osmania University - College Code 1607)



14-04-2016.

With reference to the proposal submitted on dated 06-04-2019 by Mr.Y Madhu Maheswara Reddy, Asst. Prof-MED, to develop **FATIGUE TESTING MACHINE** which is useful to carry out the research project on 'FATIGUE TESTING" for UG, PG level. The management of the college has recommended the Methodist Church in India, which has approved the expenditure for the above said project i.e. Rs 30,000/-. (Rupees thirty thousand only)

J. Reddy 14/4/2016
Principal

10-01-2015

Research Project Proposal

Submitted to the Director/Principal. Through Head- Mechanical Engineering

Sir,

Sub: Proposal for research project funding in research facility in the Mech. Engg. Dept. -
Regd.

With reference to subject stated above Principal Investigator/Co-investigator Dr. U. S. Varaprasad, Professor / Mr. Md. Fakhruddin H. N., Associate Professor in Department of Mechanical Engineering, wants to develop Suitcase Car which can be useful to carry out the research project on 'Assembly of Suitcase Car'. This project will help the students in carrying the research work at UG, PG and Ph.D. level. IV year B.E Mechanical Engineering students are actively involved in this project work. The total expenditure for the said project would cost is approximately Rs. 50,000/-. (Rupees fifty thousand only)

It will be grateful to you if you kindly allow us to carry out this as in-house project and sanction us the mentioned amount.

Thanking you

Yours faithfully

U. S. Varaprasad
Dr. U. S. Varaprasad / Md. Fakhruddin H.N.
Principal Investigator/Co-investigator
Department of Mechanical Engineering
Methodist College of Engineering & Tech.
Hyderabad.

*Forwarded to Principal
for the sanction of
amount.*

U. S. Varaprasad

*Per. Hed
Fakhrudin
10-01-2015*

Methodist College of Engineering & Technology

(Affiliated to Osmania University - College Code 1607)



19-01-2015

With reference to proposal on dated 10-01-2015⁶ by Principal Investigator/Co-investigator Dr. U. S. Varaprasad, Professor / Mr. Md. Fakhruddin H. N., Associate Professor in Department of Mechanical Engineering, to develop **Suitcase Car** which can be useful to carry out the research project to UG, PG and Ph.D. level. The management on the college has recommended the Methodist Church in India, which has approved the total expenditure for the said project i.e. Rs. 50,000/-. (Rupees fifty thousand only)

A handwritten signature in green ink, appearing to read "L. S. Varaprasad", is written above the title "Principal".

Principal

12-08-2014

Research Project Proposal

Submitted to the Principal. Through Head- Mechanical Engineering

Sir,

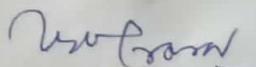
Sub: Proposal for Project funding, to assemble the All-Terrain Vehicle (ATV) in research facility in the Mechanical Engineering Dept. - Reg.

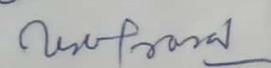
With reference to subject stated above Principal Investigator/Co-investigator Dr. U. S. Varaprasad, Professor / Mr. Md. Fakhruddin H. N., Associate Professor in Department of Mechanical Engineering, wants to develop All-Terrain Vehicle (ATV) which can be useful to carry out the research project on 'Assembly of All-Terrain Vehicle'. This project will help the students in carrying the research work at UG, PG and Ph.D. level. IV year B.E Mechanical Engineering students are actively involved in this project work. The total expenditure for the said project would cost is approximately Rs 70,000/-. (Rupees seventy thousand only)

It will be grateful to you if you kindly allow us to carry out this as in-house project and sanction us the mentioned amount.

Thanking you

Yours faithfully


Dr. U. S. Varaprasad / Md. Fakhruddin H.N.
Principal Investigator/Co-investigator
Department of Mechanical Engineering
Methodist College of Engineering & Tech.
Hyderabad.

Forwarded to Principal
for sanction of amount.


Permitted
Proceed
12/8/2014

Methodist College of Engineering & Technology

(Affiliated to Osmania University - College Code 1607)



22-08-2014

With reference to the proposal submitted on 12-08-2019 by Principal Investigator/Co-investigator Dr. U. S. Varaprasad, Professor / Mr. Md. Fakhruddin H. N., Associate Professor in Department of Mechanical Engineering, to develop All-Terrain Vehicle (ATV) which can be useful to carry out the research project on 'Assembly of All-Terrain Vehicle', which will help the students in carrying the research work at UG, PG and Ph.D. level. The management of the college has recommended the Methodist church in India which has approved the expenditure for the aid project i.e. Rs 70,000/- (Rupees seventy thousand only/-)

1.18 22/8/2014
Principal