

**FORMAT  
For  
UTILIZATION CERTIFICATE**

Sanction Letter No. 9-155/IDC/MODROB/Policy-1/2019-20

Date: 20-07-2020

**A. NON-RECURRING**

Sl. No.	Name of the Equipment Procured	Amount Sanctioned	Amount Utilized (Item wise)	Unspent Balance
1	FPV Quadcopter Drone 2.0 MP, WiFi, 720p, 120 degree wideangle camera	8,10,980/- ( Amount Released 6,48,784/-)	25,000	-
2	SYMA X5SW Quadcopter 0.3 MP, RTF, WiFi Headless Mode, 6-Axis 360 degree		20,400	-
3	Plastic Quadcopter with Propulsion Kit		40,700	-
4	1080p FPV Insight 5G 100mW HDMI Wireless Video Transmitter		28,050	-
5	Micro Quadcopter YH Equipment with 720p camera, Remote Control		20,800	-
6	Sensors		15,600	-
7	RC Flight Simulator		10,400	-
8	Precision Hawk Tool Set		5,30,000	-
9	Miscellaneous Components Connectors, Cables, Wire, Soldering Iron, Plugs, Screws, Bolts, Nuts, and Adhesives.		18,000	-

**B. RECURRING**

S. No.	Items	Amount Sanctioned	Amount Utilized (Item wise)	Unspent Balance
1	Annual Maintenance charges- 2020-21	8,10,980/- ( Amount Released 6,48,784/-)	43,500	-
2	Faculty development Programme on Drone Technology		20,000	-
3	Drone Training Workshop 2021-22		20,000	-
4	Annual Maintenance charges- 2021-22		43,500	-
5	Drone Training Workshop 2021-22		20,000	-

Certified that the grant has been utilized for the purpose For which it was sanctioned in accordance with the "Terms and Conditions" attached to the grant. If, as a result of check or audit objection some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the amount objected to.

*D. Jayappa Reddy*  
21/07/2020  
Finance Officer  
(Signature and Seal with date) OF  
TECHNOLOGY & SCIENCES - TIRUPATI

*[Signature]*  
Registrar /Principal/ Director  
(Signature and Seal with date)  
TECHNOLOGY & SCIENCES  
VENKATAPURAM (VIII.)  
RENIGUNTA (M), TIRUPATI-517 520

Name and Address of the University/ Institution: Annamacharya Institute of Technology & Sciences – Tirupati  
Venkatapuram (Village), Karakambadi Road,  
Renigunta (Mandal), Tirupati – 517 520

Note: The Utilization Certificate (UC) will be signed by the Registrar/ Finance Officer in the case of Universities, Principals in the case of Colleges and Executive Heads of other Institutions. The Provisional UC may be countersigned by the internal auditors wherever the system of the internal audit exists. In case of the Self Financing/ Private Institutions, UC has to be signed by a Chartered Accountant.

\*This is to be submitted for every financial year.

**PRINCIPAL  
ANNAMACHARYA INSTITUTE OF  
TECHNOLOGY & SCIENCES  
VENKATAPURAM (VIII.)  
RENIGUNTA (M), TIRUPATI-517 520**



**FORMAT**  
**For**  
**PROJECT COMPLETION REPORT FOR MODROBS PROGRAMME**

- File No. : 9-155/TDC/MODROB/Policy-1/2019-20  
(As mentioned in sanction letter)
- Date of Sanction : 20-07-2020
- Subject Area : Embedded Systems
1. Project Coordinator : Dr. N. Pushpalatha  
(Name and address)
2. Project Title : Modernization of Embedded Systems (UAV) lab
3. Date of Commencement of the Project : 20-07-2020
4. Duration of the Project : 2 Years
5. Date of Completion : 19/7/2022
6. Amount Sanctioned by AICTE : 8,10,980/-
7. Objectives of the Project :
- To investigate the use of UAVs in agriculture sector.
  - Able to help and coordinate a variety of security operations and can preserve evidence alike.
  - Improve Power outage restoration times; also inspect broken components quickly with accurate results.
  - Equip Drones with HD camera, IR camera, Corona camera, RFI antenna to perform diagnostic survey of High voltage transmission lines.
8. Details of Expenditure :

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3	Plastic Quadcopter with Propulsion Kit	8,10,980/-	40,700	-
4	1080p FPV Insight 5G 100mW HDMI Wireless Video Transmitter	( Amount	28,050	-
5	Micro Quadcopter YH Equipment with 720p camera, Remote Control	Released	20,800	-
6	Sensors	6,48,784/-)	15,600	-
7	RC Flight Simulator		10,400	-
8	Precision Hawk Tool Set		5,30,000	-
9	Miscellaneous Components Connectors, Cables, Wire, Soldering Iron, Plugs, Screws, Bolts, Nuts, and Adhesives.		18,000	-

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**B. RECURRING**

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5	Drone Training Workshop 2021-22	6,48,784/-)	20,000	-

**9. Future Plans for Utilizing the Equipment: and/ or Facilities Created.**

The use of flying platforms such as unmanned aerial vehicles (UAVs) is rapidly growing in a wide range of wireless networking applications. In particular, with their inherent attributes such as Mobility, flexibility and adaptive altitude, UAVs can be used as aerial base stations to enhance coverage, capacity, reliability and Energy efficiency of wireless networks. For instance, UAVs can be deployed to complement existing cellular systems by providing additional capacity to hotspot areas as well as to provide network coverage and Public safety situations.

**10. Whether There is Any Deviation from the Purposes for which grant was released. If so Details of Deviations to be given.**

Amount Sanctioned by AICTE : Rs.8,10,980/-  
Amount Incurred for MODROBS : Rs.9,83,561/-  
Deviation in amount : Rs.1,72,581/- (Which is borne by the college)

*N. Prabhakar*  
Project Coordinator  
(Signature and Seal with date) 14/05/2023

*[Signature]*  
Registrar/Director/Principal  
(Signature and Seal with date)

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*[Signature]*  
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