



Govt. of Bihar  
**MUZAFFARPUR INSTITUTE OF  
TECHNOLOGY MUZAFFARPUR - 842003**  
(Under the Department of Science & Technology Govt. of Bihar, Patna)

Notice. No.: 447/TEQIP-III

Date: 18/01/2019

M.IT. Muzaffarpur is in the process of procuring the instruments for strengthening the laboratories of Electronics & Communication Engineering Department under TEQIP-III scheme. Details of the instruments and their specifications are provided below. The instruments are to be procured for the following laboratories.

**Package Name:**

- a. AE (Analog Electronics) Lab
- b. Material Lab

Package wise procurement will be done, Interested supplier/bidders are required to give the following information/documents on [principal@mitmuzaffarpur.org](mailto:principal@mitmuzaffarpur.org) latest by 23.01.2019 so that invitation for bidding process can be initiated through PMSS.

1. Supplier Name :
2. Address(With Pin Code):
3. Contact Person Name :
4. E-Mail-ID:
5. Mobile No.:
6. TIN/GST No.

Principal  
MIT Muzaffarpur

Date  
18/01/19

Package Name: MITM/ ECE/ MATERIAL- LAB			
Sl. No.	Item Name	Item Description/Specification	Quantity
1	Hall Effect Trainer Kit	BTC - 6 Electromagnet: 0-7.5KGauss, Digital Gauss Meter with Probe, Hall Set Up Hall Probe GE Xtal.	3
2	Plank's Constant Using Photo Cell Experiment Kit	Variable dc power supply (0 – 5 V) whose output can be varied in steps of 1 mV. Digital dc Micro ammeter (0-999 $\mu$ A dc), Digital Voltmeter (0 – 9.99V dc).	3
3	Four point probe for resistivity and Band Gap Measurement	3½ digit, 7 segment LED with auto polarity and Decimal indication.	3
4	Dielectric Constant Measurement Trainer	Test Sample: Glass, Bakelite & Teflon , LCD Display.	3
5	Biot Savart Law Experiment Kit	Biot Savarts law SK 022, Digital Gauss meter, Optical Bench, Circular loop sets with holder, Flexible plug lead	3
6	Solar Cell	Solar Panel : Consists of 6 solar cells 1.5 V Maximum 150 mA Voltmeter : 0 -10 V Ammeter : 0 - 500 mA Potentiometer : 5 K2 AA Rechargeable NiCd Battery : 1.2 V Bulb : 1.2 V, 270 mA Fan : 1.5 V, 400 mA FM Band Radio : 12 V	3

**Package Name: MITM/ECE/AE - LAB**

Sl. No.	Item Name	Item Description/Specification	Quantity
1	Function generator	25 MHz Dual channel digital Function generator DDS technique with frequency stability and high resolution. Waveforms : Sine, Square, sawtooth, arbitrary wave Resolution: 20mV	12
2	Digital storage Oscilloscope	100MHz 2 channel digital storage oscilloscope Signal Bandwidth : 100 MHz Real time sampling : Max 1 GSa/s Equivalent sampling rate: Max 50 GSa/s	14
3	Digital Multimeter	3¾ Auto Range Digital Multimeter Measures DCV, ACV, DCA, ACA, resistance, capacitance, frequency and temperature Tests diode, transistor and continuity Data hold Range selection automatic and manual Large LCD display (size 70X50mm) Low battery indication Auto power off Full overload protection (indicator) Shock proof protection	12
4	Op-Amp Application Trainer	Covers Op-Amp (741) & its various applications Allows study of timer using 555 IC On-board Resistor, Capacitor, Diode and Potentiometer bank of different values. On board bread board, on board fixed DC power supply such as ±15V, ±12 and ±5V. On board DC 1.5 to 10V, -1.5 to -10V variable power supply.	6
5	Transistor Application Trainer	Covers the basic applications of transistors such as BJT, FET, MOSFET, UJT etc. On-board resources such as Resistor bank of different values, Capacitor and Inductor bank, Diode bank (Rectifier Diode, Zener Diode and LED) and Potentiometer banks of different value. On-board Dual DC fixed and variable power supplies	6