



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

Notice. No.: 55/TEQIP-III

Dated: 25 /09/2018

Rebid for BEE Lab

M.I.T. Muzaffarpur is in the process of procuring equipment of Electrical Engineering Department under TEQIP-III Scheme. Detail specification are as follows.

Package Name: MITM/EE/BEE-LAB

Package Code: TEQIP-III/BH/mitm/91

Interested supplier/bidders are required to give the following information/documents on principal@mitmuzaffarpur.org latest by 30.09.2018 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.
7. PAN No.

Sr. No	Item Specifications	Quantity
1	<p>Transformer trainer 300VA:</p> <p>Single phase Transformer specifications: Double wound iron core EI step down transformer / star secondary design Primary: 0-115-200-230VAC/1.3A, 50Hz brought out on 2 x 2 panel. Secondary: 200Vac / 1.5 Amp brought out on 2 x 2 sockets</p> <p>Three phase Transformer specifications: 300VA (100VAX3), Iron core strip lamination type step down transformer</p> <p>Input 3 phase DOL starter panel</p> <ul style="list-style-type: none">• 4 pole MCB of 415 V/4A . <p>3 Ph. Digital Multifunction measurement panel</p> <p>Integrated (1 Ph.) measurement panel</p> <p>FWD/REV, Star-Delta starter panel</p>	01

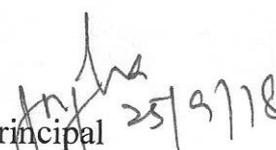
	<p>1 ph. AC Input Panel</p> <ul style="list-style-type: none"> • 1 ph. MCBs of 4A/1.6A 1 each. <p>AC voltmeter panel</p> <p>AC Ammeter panel</p> <p>Resistive Load</p> <p>(1) AC Resistors</p> <p>(2) DC Resistors</p> <p>Lamp Load Panel</p>	
2	<p>Motor Braking method system</p> <p>Input 3 phase DOL Starter panel</p> <ul style="list-style-type: none"> • 4 pole MCB of 415 V/2A .RYB three colour phase indicators. <p>Integrated AC (3/1 phase) measurement panel</p> <ul style="list-style-type: none"> • Digital meter (96X96mm) for measurement of 3\emptyset & 1\emptyset parameters. <p>Variable AC/DC power Supply Panel X 2 nos. [08 Shrouded Banana]</p> <ul style="list-style-type: none"> • AC output 0 to 270V / 3 Amp. • DC output 0 to 230V / 3 Amp. <p>DC ammeter panel</p> <ul style="list-style-type: none"> • DC Ammeter (0-5A) with polarity protection diode <p>Resistive load panel</p> <ul style="list-style-type: none"> • AC resistors: 10K, 5K, 3.5K, 2.5K, 2K, 1.5K, 200W x 3 phases/ 6 taps <p>Resistive 20E/200W rheostat mounted on horizontal profile of rack</p> <p>3 Phase AC Integrated Machine</p> <p>Voltage : 415VAC, 50Hz</p> <p>Capacity/RPM /Terminals : 300W/4 Pole m/c / 1500RPM 10 terminals</p> <p>DC Integrated (Foot mounted) Machine</p> <p>Voltage : Varm= 180V Vfield = 180V</p> <p>Capacity/RPM /Terminals : 300W/2 Pole m/c / 1500RPM 6 terminals</p>	
3	<p>House / Commercial Wiring Installation Trainer</p> <p>1 Phase AC input supply</p> <p>1ph. MCBs of 4A/1.6A - 2nos.</p> <p>Grounding & protection panel</p> <p>Integrated AC (1 phase) measurement panel</p>	

	<p>AC Power supply panel</p> <p>DC Power supply panel</p> <ul style="list-style-type: none"> • SMPS power supply for LED • Input 230VAC, Output +12V/5A, 60W <p>Dimmer/Fault panel</p> <p>Lamp panel</p> <ul style="list-style-type: none"> • Incandescent lamp = 1 no, CFL tube = 1 no <p>Various Lamp/Tubes provided</p> <p>Display panel</p> <p>Wiring practice board</p> <p>Drill Machine, screw driver set, self-tapping screws, drill bits.</p>	
4	Kirchhof's Current Law Trainer	01
5	Kirchhof's Voltage Law Trainer	01
6	<p>Inductance measurement Trainer</p> <p>The single board trainer helps to study measurement of inductance using voltmeter and ammeter method. The trainer contains one milliammeter, one ac voltmeter, one inductor with changeable iron core and a closed type variac (2 Amp).</p>	01
7	<p>Network Theorems</p> <p>The single board trainer with in-built I.C. regulated variable power supply, Digital voltmeter & milliammeter for measurement of voltage & current helps to study Thevenin, Nortons and Maximum power transfer theorems using a resistive Wheatstone bridge.</p>	01
8	<p>Superposition theorem Trainer</p> <p>The single board trainer helps to study current in any branch of multisource circuit using superposition theorem. The trainer contains two voltage sources, three digital milliammeters, one voltmeter & set of resistances.</p>	01
9	Transient response in R - L and R - C network	01

10	<p>Transient response in R - L - C series and parallel circuits</p> <p>The single board trainer helps to studies</p> <p>(i) The transient response of an RLC circuit. (ii) To measure a) The critical damping resistance and b) The decay modulus.</p> <p>The trainer contains Resistance, capacitor and inductor.</p> <p>Additional accessories required:</p> <p># Sine wave Generator # Dual trace oscilloscope</p>	01
11	<p>Determination of impedance (Z) and Admittance parameters of a two port network</p> <p>The single board trainer helps to studies impedance and admittance parameters of a two port network. The trainer contains set of resistance, capacitor and inductor.</p> <p>Additional accessories required:</p> <p># Sine wave Generator # AC voltmeter</p>	01
12	Analog Ammeter (0-10A DC) with stand	05
13	Analog Ammeter (0-5A DC) with stand	05
24	Analog Voltmeter (0-600V)	05
15	Battery (12V, 7 plates 45AH)	10
16	Analog Multimeter	05

Note: Detailed specification of all items will be attached in the invitation letter.

✓ Faiz 
25/09/2018


Principal 25/9/18
MIT Muzaffarpur