

MODEL ENGINEERING COLLEGE  
THRIKKAKA, COCHIN-21  
PH:2577379,2575370

Ref no.A2/2525/17/MEC

MODEL ENGINEERING COLLEGE  
THRIKKAKA, COCHIN-21  
PH:2577379,2575370

Ref no.A2/2525/17/MEC

Tender No.8/2017-18/MEC

dtd 29.11.2017

### **TENDER shedule**

Sealed tenders in the prescribed format are invited for the purchase of equipments for various labs for Biomedical Department.

- 1.Last date and time of sale of tender form:5/1/2018 10 am
- 2.Last Date & Time of Receipt of Tender: 5/1/2018 11 am
- 3.Date & Time of Opening of Tender:5/1/2018 2.30 P M

Cost of Tender Form:

Original : 500 + 18% GST

Duplicate :300 + 18% GST

Tender form and details can be had from Model Engineering College,Thrikkakara. Mode of remittance by Cash payment at College Office.Those who apply for tender form by post should remit additional amount of Rs.50/- as postal charges.Agreement in stamp paper worth Rs.200/- to accompany tender. Further details available at [www.mec.ac.in/](http://www.mec.ac.in/) Tenders.

PRINCIPAL

MODEL ENGINEERING COLLEGE  
THRIKKAKA, COCHIN-21  
PH:2577379,2575370

Ref no.A2/2525/17/MEC  
Tender No.82017-18/MEC

dtd 29.11.2017

**Specification of Equipments of Biomedical Department**

Sl. No.	Item	Specifications	Quantity
1.	Automatic BP monitor	Main Unit: Display: Systolic blood pressure, Diastolic blood pressure, Pulse. Indications for Irregular heartbeat, Out of recommended range, Deflation, Battery low, Provision for storing at least 10 readings. Pressure Cuff	1
2.	Function Generator	Frequency Range: Up to 3MHz Resolution:0.1Hz max Waveforms: Sine, Triangle, Square and TTL Output Amplitude:0-10Vpp (into 50Ω load) Impedance: 50Ω ±10% Attenuator:-40dB±1 dB X 1 DC offset control:-5V to +5V (into 50Ω load) Display:6 digits LED Display <b>NB: The item shall be available for demonstration, if needed.</b>	2
3.	Rheostat	1230 ohm, 0.3A Tolerance +20% to -5%, Wire wound Hexagonal steel tube, Self-lubricating graphite brush, HT test 2KV for 1 minute Maximum working voltage 500V	2
4.	Decade Inductance Box	10μH-10 H, 6 rotating dials, each with 10 steps, Accuracy 3%	2
5.	LVDT Trainer	Measurement Range: 20mm (±10mm) Excitation Frequency: below 10KHz Excitation Voltage: between 2 V to 10V Sensitivity:10mV DC/mm Display:3 <sup>1</sup> / <sub>2</sub> Digit LED with Polarity Indicator Multiple test points to be included (Min 5)	1
6.	ECG Simulator	Generated rate :30-300 beats/minute ECG Amplitude range:200mV-4V Low Pass Filter: Cut-off frequency -5KHz Leads: All 12 leads Heartbeat indication: Both LED and Audible (Buzzer) controls Separate output channels for four Limb and six	2

		<p>Chest leads  Provision to view the all 12 lead standard ECG waveforms simultaneously  Test points to be included</p>	
7.	Digital Multimeter	<p>Accuracy:0.25% of measured value or more  Measurement:3 3/4 digit Non-TRMS  DC current measurement ranges:300<math>\mu</math>A to 10A  AC current measurement ranges:3mA to 10A  AC voltage measurement ranges :3V to 1000V  DC voltage measurement 30mV to 1000V  Resistant measurement :30<math>\Omega</math> to 30M<math>\Omega</math>  Frequency measurement 300Hz to 100KHz  Capacitance measurement:30nF to 30<math>\mu</math>F  Diode and continuity testing  Auto ranging/manual range selection  Terminal protection for over range, over voltage and current  Protective Rubber Holster for rough duty with stand facility  Storage and updation of MIN/MAX values Auto Off</p>	5

PRINCIPAL