

**E K NAYANAR MEMORIAL MODEL POLYTECHNIC COLLEGE KALLIASSERY**

**(Managed by IHRD, Government of Kerala)**

**Kalliassery, Kannur District, Kerala- 670562**

**Phone 0497 2780287**

**Notice Inviting Tenders**

Sealed tenders are invited for the followings.

<b>Tender No.&amp; Date</b>	<b>Materials Description</b>	<b>EMD</b>	<b>Tender due date &amp; Time</b>	<b>Tender cost</b>
A/225/16(II) 11.09.2017	Printer, Projector HD Scanner interactive white board etc.	1% of the quoted Amt.	28.09.2017 2.00 PM	800+GST 12.5%
A/214/(III) 11.09.2017	Equipments for Medical Lab	1% of the quoted Amt.	28.09.2017 2.00 PM	1000+GST 12.5%

Tender with detailed schedule can be had from The Principal, EKNMMPTC, Kalliassery on payment of Rs. 800 + GST 12 % and 1000+GST 12% for each tender respectively on all working days. Last date of receipt of tender is 28.09.2017 at 2.00 PM and the same will be opened at 4.00 PM on 28.09.2017. Each tender separately can be submitted along with the EMD by way of DD and all tenders can be super scribed as tender No. For details Phone: 0497 2780287 Email. [mptkalliasseery.ihrd@gmail.com](mailto:mptkalliasseery.ihrd@gmail.com)

Dated: 11.09.2017

Sd/-  
PRINCIPAL

**EK Nayanar Memorial Model Polytechnic College, Kallyassery-Kannur**  
**Pin 670562. Phone 0497-2780287.**

**MHRD –Purchase proposal of items in Medical Electronics lab**  
**FNo: 214/2016/MHRD/3/4**

Sl. No.	Name of Item/Specification	Quantity required
1	Heart rate Monitor cum ECG Trainer Self Contained and Easy to operate, 3 Digit Digital display of heart beats /minute, On board heart beat indicator, Separate test points to observe ECG waveform after each block, Onboard ne minute indicator, User selectable heart rate, Bradycardia limit, Tachycardia limit indicator	5
2	Electro myograph trainer Separate test points to observe wave forms after each block. Provide amplified EMG output. Inbuilt EMG Simulator, Provide information about 10 simulated EMG outputs, Visible LED indication for all the simulated EMG outputs	2
3	Phonocardiograph trainer Provide amplified phonocardiogram output. User selectable filter, section, Onboard variable gain control facility, Separate test points to observe waveforms after each block, Buffer stage for oscilloscope display, With real time PCG acquisition software, Self contained and easy to operate for educational purpose	2
4	Single channel ECG telemetry trainer Provide amplified outputs with P, Q, R, S, T, U waves, inbuilt ECG simulator and Real time ECG measurement system, Provide depthstudy of all standard Unipolar and Bipolar lead configurations of ECGmeasurements, variable Heart Rate generations from 30 to 300 heart beats / minute. Variable ECG amplitude 200mV / 4V DC. Every systole indication is given by LED (Visible), Provides 12 leads real time amplified ECG output.	2
5	Flame Photometer: Specifications: Interference filters- Na and K, Reproducibility- low conc $\pm 1\%$ , High conc $\pm 2\%$ , Minimum Suple - 3ml/element, Averaging- 2 to 15 s, operating air pressure- 0.45 kg/cm <sup>2</sup> , fuel gas- LPG supplied by end user, Printer port dot matrix.	1
6	HB Meter: 3.5digit bright led display,automatic zero adjustment,accuracy $\pm 0.02$ OD, stability $\pm 0.02$ OD per hour, 6.8volt .3Amp tungsten light source, inbuilt memory to retain last k factor for concentration even after power loss, sample volume 1ml min, accessories-set of test tubes-5,dust cover-1, operational manual	5

7	Defibrillator: Wave Form : Biphasic.Energy Selection : 2 – 270 Joule. Monitor Type : LCD. Monitor Resolution : 320×240. Monitor Size : Printer Type : Thermal Printer.5.5 inch. Printer Type : Thermal Printer Printer Speed : 25-50mm/sn..Max. Discharging : 100+.ECG Monitoring Time : 4 Hours. Storing Conditions : -20 / +55 C.	2
8	Mercury Sphygmomanometer: With glass tube. Standard cotton cuff.2-tube adult size bladder. Standard latex bulb. standard end valve	5
9	Nebuliser: Specifications: Overall weight - 1.4 kg, Flow rate - 10Lpm, Built in safety to protect patient by a compressor valve. Should allow compressor pressure Max: 30psi delivery, ABS injection module cabinet. Size: 15.2cm*10.1cm*17.8cm. Free airflow: 10Lpm, Compressor type: Piston. Power supply: 230V, 50hz.(0.7amp).	1
10	SHORT WAVE DIATHERMY MACHINE. Specifications: Power Out Put : 500/250 Watts. Frequency: 27.12 MHz. Wave Length: 11 Meters. Power Supply : 220 - 240V, 50 c/s AC	1

Sd/-

PRINCIPAL