

**MODEL POLYTECHNIC COLLEGE, MATTAKKARA**  
**(Managed by IHRD)**  
**Mattakkara P.O, Koottayam- 686564.**  
**Phone: 0481-2542022**

**TENDER NOTICE**

Sealed competitive tenders in the prescribed forms are invited for the following.

SlNo	Tender No	Items to be Purchased	Cost of Tender Form in Rs
1.	1/45/2018	Equipments to Telecom Equipments Lab	Rs.800/ + 18% GST
2.	2/46/2018	PC Based Design Lab	Rs. 300/ + 18% GST

Tender forms can be had from the college office on payment of the cost as shown above.

Those who are in need of tender forms by post may sent a request along with a demand draft for cost of tender form as per above schedule + GST 18% + ( postage charges ) Rs. 50/- drawn in favour of the Principal, Model Polytechnic College payable at SBI Mattakkara .

**Terms and Conditions:**

- 1) Rate quoted must be inclusive of all taxes and charges.
- 2) Minimum 3 years onsite warranty for all items should be offered.
- 3) Items must be supplied at MPTC Mattakkara by the supplier at the address given above.
- 4) Offer for supply of items is acceptable only from manufacturer or their authorized service Providers/dealers. So a certificate issued by the manufacturer should be enclosed in case of Dealers/service providers.
- 5) Payment will be cleared only on verification of the items as per tender specification and acceptance.
- 6) **EMD : 1%** of the tendered cost may be furnished by D/D drawn in favour of Principal, Model Polytechnic college Mattakkara and payable at SBT Mattakkara.
- 7) Agreement: In Kerala stamp paper worth Rs.200/- may be furnished
- 8) Superscription : Tender No. and item may be specified.

Last date for sale of Tender forms                      07-06-2018, 11AM

Last date for receipt of Tenders                              07-06-2018, 3PM

Date and time of opening                                      08-06-2018, 11 AM

Further details can be had from the office during working hours.

**PRINCIPAL**

## Tender No: 1/45/2018

Sl.No	Item No in the Vetted List	Item with Specifications	Quantity Req.
1	4	Telephone Demonstration kit: TVA unit (SIP-protocol digital (PBX), P phone (Centrex), or analog compatible terminal adapter) 24-port patch panel 25-pair Amphenol connector , 7 foot Ethernet cable 6 foot serial console cable, Power supply cable	8
2	6	EPABX Demonstration Kit: Based on 89C51 CPU, 1 trunk, 3 extension IBM PC compatible keyboard, 20 x 2 LCD display, Working in 2 modes, Programmable, 79 db cross talk attenuator with telephone instruments.	2
3	7	FAX Machine Demonstration Kit: Push button Telephone, FAX Machine Satisfying ISI standards, DTMF Telephone Trainer, OFC demonstration kit, PCM Generation and demodulation using CODEC, EPABX Tr	2
4	11	TV demonstration kit: Standard : CCIR-B-PAL-G, 625 Lines Channels : 230 2-4VHP: I (VL), 5-12VHP III (VH) 12 -100: BAND DIV & V, else : SBAND & HYPERBAND Picture Tube Size : 36cms. Diagonal RF Input Impedance : 75W Circuit Blocks : System Control Circuit, Video IF, Sound, Tuner Section, Horizontal Oscillator, Horizontal Output, Vertical Oscillator, Vertical output, Video & Chroma Section, Power Supply, AV sections ON Screen Display to set : Volume Brightness, Contrast, Colour Channel & Band Selection Tuning Panel Control : ON-OFF Switch, Stand by Menu Vol + / - Prog + / - Remote Control Function : Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan Child Lock PCB Size : 475 x 375mm No. Pf Faults : 21 No. of test Points : 55 I.F. Frequency : Video - 38.9MHz, Audio - 33.4MHz Speaker Size : 50 x 125mm Accelerating Potential : 24KV max Operating Voltage for EHT : 110V Mains Supply : 230V ± 15%, 60Hz on request Power Consumption : 75VA (Approx).	2
5	99	Telephone Trainer: Line In Section : One DOT line connection port., Handset : One Handset connection port., Keyboard : 4 x 3 Matrix keyboard., Dialer : Tone & Pulse.	10
6	100	EPBAX trainer Based on 89c51 CPU. Provision for upto 1 trunk Line & 3 extension lines. IBM PC Compatible Keyboard for using commands. , 20 x 2 LCD Display. Complete circuitry of EPABX is on board., Working in 2 Modes: Trainer Mode I EPABX Mode, Explanation, Observation, Alignment and adjustment of internal, & external controls is possible., Programme for different section can be written in RAM., Programs written by user are executable., Standard EPABX specification., 70dbm Cross Talk Attenuator., Telephone Instruments (Optional).	1

7	102	GPS Trainer: GPS Receiver board Frequency: 1.575 GHz, Channels: 12, Onboard clock and system processor Receiver sensitivity: -165dBW minimum, Update rate: 1 second Acquisition time: 15 seconds warm, Position accuracy Non-differential GPS: 15 meters RMS (100 meters with selective availability on) Velocity accuracy: 0.2 m/s RMS steady state One-pulse-per-second: $\pm 1$ microsecond at rising edge accuracy of PPS pulse Electrical Characteristics Input voltage, : +3.6Vdc ~ 6.0Vdc regulated 150 mVpp ripple Input current, : 120 mA typical, 140mA maximum 20 mA while in power down Software interface Dual channel CMOS / TTL level with user selectable baud rate (300, 600, 1200, 2400, 4800), NMEA0183 Version2.0	2
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PRINCIPAL

**Tender No: 2/46/2018**

Sl.No	Item No in the Vetted List	Item with Specifications	Quantity Req.
1	113	PC Based Design Lab: Specification:- 7 in 1 Multi Instrument 2 Channel Digital Storage Oscilloscope 16 Channel Logic Analyzer Mixed Signal Oscilloscope (1 Analog + 8 Digital) Synthesized Function Generator, Pattern / Word Generator Programmable Clock Generator <input type="checkbox"/> Variable Power Supply Portable Design, Interactive Virtual Graphical User Interface Software Separate window for every Instrument, User friendly and easy navigation USB 2.0 Interface	2

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