# P.T.M.Govt. College, Perinthalmanna Pathaikkara Post, Malappuram Dt, Kerala, India, Pin – 679322 PH - 04933 227370, email id - ptmgcpmna@gmail.com

#### A2/806/2021/PTMCPTHLM

#### Tender Notice No. 02/A2/806/2021-22/Plan Dated 09.02.2022

Sealed competitive tenders are invited for the supply of Equipment to Physics Lab of this College for an amount of ₹4,99,000/- (Rupees Four Lakh Ninety Nine Thousand only) under "2202-03-103-76 Development of Libraries, Laboratories and Furniture" during the financial year 2021 - 22, detailed list is attached. The envelop containing the tender should be super scribed as "Tender No- 02/A2/806/2021-22/Plan - Supply of Equipment to Physics Lab" and addressed to the Principal, P.T.M.Govt: College Perinthalmanna, Pathaikkara Post, Malappuram Dt, Kerala, India, Pin - 679322. Late tenders will not be accepted. The details of the entire tender procedure is shown in the below table.

1	Last date and time for the sale of Tender form	23/02/2022 12.00 Noon
2	Last date and time of receipt of filled tender form	23/02/2022 02.00 pm
3	Opening of the Tender form	23/02/2022 02.30 pm
4	EMD	₹4,990/-

Intending tenders may make an application to the Principal, P.T.M.Govt: College Perinthalmanna, Pathaikkara Post, Malappuram Dt, Kerala, India, Pin – 679322 to obtain the requisite tender form in which tenders should be submitted. The duly filled in and signed original tender form will only be accepted. Application for the tender form should be accompanied by a **GST paid receipt** (18% of Cost of tender form ie ₹298/-) and a cash remittance of ₹1650/- (Rupees One thousand Six Hundred and fifty only) which is the price fixed for a tender form and which is not refundable under any circumstances. (₹298/- GST of tender form is payable through reverse charge mode under GST Rule). The tender forms are not transferable. Cheques, Postal orders, Drafts etc., will not be accepted towards the cost of tender form and the same will not be sent by V.P.P. Those who are requires tender form by Registered Post, should sent ₹1700/- (Rupees One thousand Seven Hundred only) by money order including cost of tender form and registered Postal Charges.

Every tenders should be completely filled in, signed and accompanied by a Demand Draft for an amount of ₹4990/- (Rupees Four Thousand Nine Hundred and Ninety only) as EMD. EMDs carries no interest. The firms who are exempted from furnishing EMD should attach true copy of the exemption order along with the tender documents. The period of firmness of rate quoted will be up to 31/03/2022. Rates, GST and conditions of supply of articles should clearly be stated separately in respect of each item.

The successful tenders should supply the items within 10 days after the receipt of the supply order to the college at your own expenses. Every tenderer should execute an agreement in Kerala Stamp worth ₹200/- along with the tender. The undersigned will herewith the right to cancel or extend the tender formalities at any time without further notice. The cash transactions in the office are at 10.00 am to 02.00 pm on all working days. More details will be had from the college office on working hours.

Afsal Jamal. P Principal (In Charge)

#### Copy to:-

- 1. The Notice Board
- 2. Various firms
- $3. \ \ \text{The Director of Printing, Thiruvananthapuram (With C/L)}$
- 4. The Secretary, I & P.R.D, Govt. Secretariat, Thiruvananthapuram (With C/L)
- 5. Principal
- 6. Senior Superintendent
- 7. Head Accountant
- 8. Stock File
- 9. For Publishing in College Website
- 10. Village Officer, Pathaikkara
- 11. Secretary Perinthalmanna Municipality
- 12. District Information Officer, Malappuram

### **Approval Valid**

Digitally Approved By Afsal Jamal. P Date: 09.02.2022 Reason: Approved

## **DEPARTMENT OF PHYSICS**

P.T.M. GOVT. COLLEGE, PERINTHALMANNA

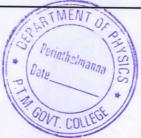
### Detailed proposal for electronics /other items to physics lab under plan fund 2021-22

SI. No	Item	Specification	Quantity
1	Complete experimental set up for measuring dielectric constantof liquid and thin sheet	good quality experimental set up with measuring liquid and thin film	
2	Complete experimental setup for measuring lonic -Conductivity of KCl and NaCl crystal	0-15V variable Powersupply with 16x2 LCD Display which Shows Current, Voltage And Conductivity Of Sample, Short Circuit Protection, Voltage Course And Fine Controls, 2 year warranty, Extra Ammeter, Sample Holder etc	2
3	laser beam diffraction through diffraction grating experimental setup	645nm red laser light on heavy base,grating stand, white screen.	2
4	Experimental setup to determine the dielectric constant by Lecher wire setup .including RF oscillator,powersupply,with two vacuum tubes,approx length 1.5mtr.bulb type	Complete experimental setup to determine the dielectric byLechere wire setup .including RF oscillator,powersupply,with two vacuum tubes,approx length 1.5mtr,bulb type detector with addition capacitor for capacitance measurement	1
5	Complete experimental set up to measure velocity of sound in liquids-using ultra sonic diffraction	High resolving spectrometer with micrometer eyepiece-10" dia,L.C 10 Sec ,High power oscillator 3 to 6McC/s with quartz crystal,quartz crystal 5 to 6MC/s with crystal holder &glass tank -3"X3"X3"-Leak proof	2
6	Michelson Interferometer (Compact Model)	Rigid base platform, Kinematic laser mount, Beam splitter mount, Mirror mount with precision translation Rotation stage, Diode laser with power supply (650nm) with two year warranty	1
7	Cathod Ray Oscilloscope	DC-30MHz Band width,1mV/div sensitivity on both channels,40ns/div to 0.2s/div time base,140mm Rectangular CRT with internal graticule,Triggering to 40 MHz,Z Modulation(TTL Level),8X10cm display,TV Triggering Frame(v) &Line (H),MAINS Trigger,Variable Hold Off,Built-in component tester/comparator	8

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Head of the Department of Physics
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22	Transistor	BC 107	10.
21	MAGNETIC STIRRER WITH HOT PLATE-	Number of stirring position-1,motor rating output -1.5W,direction of rotation-left,speed control -scale 0-6,speed range-100-1500rpm,stirring bar length -80mm,heat output-1000W,heating temperature range-5500degree celsius,set up plate material-ceramic,set-up plate dimension-180X180 mm	1
20	IC tester	good quality with provisions for measuring op-amps	3
19	Dual power supply	15 v dual supply, variable adjustment	4
18	e/m experimental set up	with high precision and accuracy	1
17	Four probe experimental set up	Band gap energy and bulk energy measurement of Ge	2
16	Lycopodium powder	1 bottle 100g	1
15	Function Generator	5 MHz with capacitive touch front panal switches, Sine, Triangle, Square and TTL outputs, 20 V signal with 50 R output, 16X4 LCD, display shows: frequency, amplitude and wave shape	8
14	wifi rooter	good quality	2
13	Battery operated thermometer	Range: -25 to 350°C Display: LCD Battery: 2XAAA Sensor: Thermo-couple Probe: Detachable	2
12	Centre tapped Step Down Transformer	The unit consists of a step down transformer with different tappings for different voltages, selected by selector switch. The A.C. output is obtained between the terminals given on the front panel. Output 2-4-8-12-16-20 Volts A.C. at 2 Amp. On plastic or bakelite stand with input ac two pin	6
11	Thermocouple trainer kit	with facility for heating	6
10	Digital multimeter	good quality with provision for measuring hfe	6
9	Experimental set up for measuring Refractive index of transparent material by Brewster angle measurement	Good quality instrument with provision for angle change and measuring transparent material	1
8	LCR meter	Frequency 100 Hz-100 kHz,Signal level20 mV to 1V with step 5mV,DC bias: 0 to 2 V,inductance: 10 nH to 100kH, Capacitance: 0.1 pF to 1 μF, Resistance: 1 mohm to 100M ohm, GPIB interface.	2



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