

**OFFICE OF THE PRINCIPAL, GOVERNMENT POLYTECHNIC, NAYAGARH**

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No. 890/GPNYG/Dtd. 04/08/26**Quotation call notice**

Sealed quotations are hereby invited from reputed, experienced and authorized suppliers/ firms for the supply of **ELECTRICAL CIRCUIT LABORATORY ITEMS** (Electrical Engg. Dept.) mentioned below to Govt. Polytechnic, Nayagarh.

Details of Items with specification

SL NO	NAME OF THE ITEMS	SPECIFICATION
1	SERIES RLC RESONANCE CIRCUIT WITH VARIABLE C,L,AND R	TECHNICAL SPECIFICATIONS ■ Input :220V AC/50Hz ■ Onboard Single phase power ana- lyser(1000W,220V,5A) Digital Meters: Ammeter 20mA AC. Frequency Counter Up to 40MHz.Sine Wave Generator: 0-100KHz Sine Wave Generator ■ Onboard 3 Nos. of Resistors selected by Rotary Switch. 3 Nos. of Capacitors selected by Rotary Switch. 3 Nos. of Inductors selected by Rotary Switch.
2	PARALLEL RLC RESONANCE CIRCUIT WITH VARIABLE C,L,AND R	TECHNICAL SPECIFICATIONS ■ Input :220V AC/50Hz ■ Onboard Single phase power ana- lyser(1000W,220V,5A) Digital Meters: Ammeter 20mA AC. Frequency Counter Up to 40MHz.Sine Wave Generator: 0-100KHz Sine Wave Generator ■ Onboard 3 Nos. of Resistors selected by Rotary Switch. 3 Nos. of Capacitors selected by Rotary Switch. 3 Nos. of Inductors selected by Rotary Switch.
3	DECADE BOX (RESISTIVR, CAPACITIVR, INDUCTIVE)	TECHNICAL SPECIFICATIONS ■ Decade Resistive Box ■ Range :(0 - 10) x 0.1Ω, (0 - 10) x 1Ω, (0 - 10) x 10Ω. ■ Decade Capacitive Box ■ Capacitance Range: 0 to 1.1μF x 0.01μF. ■ Accuracy: +5%. ■ Voltage Rating: 400 VDC. ■ Decade Inductive Box ■ 1 μH to 10 μH in steps of 1 μH. ■ 10 μH to 100 μH in steps of 10 μH ■ 100 μH to 1 mH in steps of 100 μH. ■ 1 mH to 10 mH in steps of 1 mH.

		■ 10 mH to 100 mH in steps of 10 mH. ■ 100 mH to 1 H in steps of 100 mH. ■ 1 H to 10 H in steps of 1 H. ■ Accuracy: +5%.
4	VOLTMETER(,MI TYPE)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :MI ■ Range : 150/300V ■ Terminals provided to make connection
5	VOLTMETER(,MI TYPE)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :MI ■ Range : 1/2 A ■ Terminals provided to make connection
6	AMMETER(PMMC)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :PMMC ■ Range : 150/300V ■ Terminals provided to make connection
7	AMMETER(PMMC)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :PMMC ■ Range : 5/10 A ■ Terminals provided to make connection
8	WATTMETER(SINGLE PHASE)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :Induction Type ■ Voltage :220V AC ■ Range : 150/300V, 5/10 A ■ Wattage:150W/600W ■ Terminals provided to make connection
9	POWER FACTOR METER (ANALOG)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :Induction Type ■ Voltage :220V AC ■ Range : /75150/300V, 5/10 A ■ Wattage:150W/600W ■ Terminals provided to make connection
10	POWER FACTOR METER (DIGITAL)	TECHNICAL SPECIFICATIONS ■ Portable Type Meter ■ Type :Digital Power Factor ■ Voltage :220V AC ■ Range : 0.5-1-0.5 ■ Terminals provided to make connection

11	CRO 20MHz Dual Channel	TECHNICAL SPECIFICATIONS - Weight 8 Kilograms (kg) Power 220 VAC +10% , 50 Hz Usage For Testing Purpose Dimension (L*W*H) 310 x 370 x 130 Millimeter (mm) CRT : 6" Rectangular screen with internal graticule, 8 x 10 Div (1Div=1cm) Vertical Deflection Vertical Operation Mode : CH1, CH2, ADD, ALT, CHOP (CH1, CH2) Sensitivity : 5mV/div to 5V/div +3%, 1mV/div to 1V/div +5% (x5), 10 steps Rise time : <17.5ns Input impedance : 1Mohm Max. Input voltage : 250V (DC+AC peak value) at 1kHz (250V, DC+AC) Input coupling : AC, DC, GND Polarity selection : +(CH2 only) Display mode : 1, 10, X-Y ME 3020
12	RHEOSTAT	TECHNICAL SPECIFICATIONS 1-Resistance: 500Ω Max Current: 3A
13	RHEOSTAT	TECHNICAL SPECIFICATIONS 2-Resistance: 300Ω Max Current: 1.7A
14	RHEOSTAT	TECHNICAL SPECIFICATIONS 3- 100Ω Resistance: Max Current: 5A
15	RLC SERIES CKT TRAINER KIT ATTACHED WITH AMMETER ,VOLTMETER,W ATTMETER AND POWER FACTOR METER	AC Voltmeter (0 - 300V)ac ammeter(2/5/10) wattmeter(1phase, 300v 5/10amp, power factor Meter(0.5 la-1.0-0.5leading attached with RLC load Resistor Bank (R)Varying selections (e.g., 100Ω, 220Ω, 500Ω)Inductor Bank (L)Multi-tapped choke coil (e.g., 0.1H, 0.3H, 0.6H)Capacitor Bank (C)Switched microfarad array (e.g., 2μF, 4μF, 8μF)with specific range with connecting patch cords
16	RLC PARALLAL CKT TRAINER KIT ATTACHED WITH AMMETER ,VOLTMETER,W ATTMETER AND POWER FACTOR METER AND R&L PARALLAL WITH VARIABLE CAPACITOR	AC Voltmeter (0 - 300V)ac ammeter(2/5/10) wattmeter(1phase, 300v 5/10amp, power factor Meter(0.5 la-1.0-0.5leading attached with RLC load Resistor Bank (R)Varying selections (e.g., 100Ω, 220Ω, 500Ω)Inductor Bank (L)Multi-tapped choke coil (e.g., 0.1H, 0.3H, 0.6H)Capacitor Bank (C)Switched microfarad array (e.g., 2μF, 4μF, 8μF)with specific range with connecting patch cords
17	MESH /NODE ANALYSIS TRAINER KIT ATTACHED WITH AMMETER ,VOLTMETER & POTENTIAL POT	Main Input Power: 220V - 240V AC±10%, 50Hz single phaseypically fixed or variable options like 0 - 15V DC or 9V / 15V DC :CURRENT Up to 500mA, fully short-circuit protected: AMMETER 0 - 200mA or 0 - 500mA VOLT-: 0 - 15V DC or 0 - 20V DC

18	RESISTIVE LOAD BOX UP 1 KW FOUR VARIABLE POINT)	300 Volt, 10amp Variable Load Steps4 Steps (Variable Points) Typically configured as 0.25 kW (250W) x 4 steps. ME 2321
19	CAPACITATIVE LOAD BOX (4 VARIABLE POINT)	300volt 10 Amp Variable Load Steps4 Steps (Variable Points) Configured as 4 independent capacitor bank steps.15 μ F to 60 μ F total ME 2329
20	INDUCTIVE LOAD (FOUR VARIABLE POINT)	Variable Load Steps4 Steps (Variable Points) Configured as 4 independent iron-core inductor/choke coils. ME 2330

Terms and conditions

1. The quotation should be submitted in a sealed envelope superscribed "Quotation for Supply of ELECTRICAL CIRCUIT LABORATORY ITEMS (Electrical Engg. Dept)".
2. The quotation must reach the office of the undersigned on or before **18.08.26 by 12PM.**
3. The quotation will be opened on **18.08.26 at 4PM** in the presence of the bidders or their authorized representatives, if they wish to attend.
4. The quoted rates should be inclusive of all taxes, transportation, loading, unloading, installation (where applicable) and other incidental charges.
5. The materials supplied must conform to the prescribed specifications and be of standard quality.
6. The supplier shall complete the delivery within **15 days** from the date of issue of the purchase order.
7. Payment will be made only after satisfactory supply, inspection and acceptance of the materials.
8. The undersigned reserves the right to accept or reject any or all quotations without assigning any reason thereof.
9. Any dispute arising out of the supply shall be subjected to the jurisdiction of the local court.

Memo. No. 891/GPNYG/Dtd. 4/8/26
Copy to HOD Electrical for information and necessary action.

Govt. Polytechnic, Nayagarh

Principal

Memo. No. 892/GPNYG/Dtd. 4/8/26
Copy to institution notice board/ Institution website for information & wide circulation.

Govt. Polytechnic, Nayagarh

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Memo. No. 893/GPNYG/Dtd. 4/8/26
Copy to Collector and District Magistrate, Nayagarh for kind information & wide publication in their Notice Board.

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