

Model Residential Polytechnic College Kuzhalmannam
Managed by IHRD, Established by the Govt. of Kerala.
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No. P/197/2023/mrpckm

Date: 28-12-2023

Quotations Notice

Sealed Quotations are invited for the supply of Equipments for Electronics Lab for Model Residential Polytechnic College Kuzhalmannam as per the specifications mentioned below.

Superscription : Supply of Electronics Lab Equipments

Address for correspondence : The Principal,
Model Residential Polytechnic College Kuzhalmannam,
Kannanur PO., Kuzhalmannam, Palakkad Dist., Kerala
PIN 678 702.

Last date of receipt of Quotations : 11-01-2024, 3:00 PM

Date and Time of opening of Quotations : 11-01-2024, 3:30 PM

Other Conditions :

1. Price : Should be inclusive of all taxes, transportation, delivery and installation charges.
2. Payment : After verification of the items and good condition certificate from the concerned Section/committee.
3. Delivery : At Model Residential Polytechnic College Kuzhalmannam within the stipulated time,

S/d
PRINCIPAL

List of Equipments with technical Specifications

1. Cathode Ray Oscilloscope 10 M Hz. : 2 Nos.

Type of Product	: Analog Oscilloscope
Product Sub Type	: Horizontal Type
Bandwidth	: 10 MHz
Y Deflection	: 10mV/div -5 V/div
Sweep Rate	: 200 ms/div-0.5 us/div
Frequency	: 0.5 V \pm 2%
Channel	: 1 kHz \pm 3%
X Sensitivity	: 0.5V / div, \pm 5%,MAG 0.1V/div, \pm 10%
Trig Mode	: 0.5 V/div
Wave Type	: Int. 1div , Ext. \pm 0.5Vp-p
Component Test	: Rectangle
Features	: 91x255x290 mm
Power Supply	: AC 200 \pm 10%V
Standard Accessories	
	: Power Chord, 20MHz Oscilloscope Probe, Manual

2. General Purpose Function Generator 2 MHz : 2 Nos.

Frequency Range 0.2Hz to 2MHz
Digital Frequency
LCD Readout for frequency & mode
Waveforms: Sine, Square, Triangle,
Pulse, Ramp, DC
DC-Offset Adjustment
Trigger Output
Internal Sweep & External FM-
Modulation

3. Digital IC Trainer Kit : 4 Nos.

2mmSockets.
DC power supply Fixed+5V,/1A+/-12,
V500mA
16pin ziff socket
logic inputs and outputs 10no
mono pulse High Low
solder less bread board 1no

4. 0 to 30 V DC variable Power Supply: 2 Nos

Input	: 230V +10%, 50-60Hz, Single Phase
2. Mode at the Output	: Constant Voltage Mode
3. Output Voltage	: 0-30V DC Settable Continuously with two potentiometers provided on Front Panel clearly
4. Output Current	: 0-2A DC settable continuously
5. Line & Load Regulation	: + 0.1%
7. Ripple	: + 0.1%
8. Protections	: a. Unit is protected against input surges. b. Unit is protected against over loads and continuous short circuits. c. Fuse protection for input .
9. Front Panel Controls	: a. Unit ON/OFF switch b. Coarse Potentiometers to set the output voltage and current at required level is provided on Front Panel. c. Input fuse. d. Binding Terminal for Output.
10. Front Panel Indications	: a. LED for Input c. 3½ Digit digital panel meter to read the output voltage. 3½ Digit digital panel meter to read the output load current.

5. Fixed Dc Power Supply +5V/1A & +/-12V/1A : 4 Nos

Output:	Voltage/Current	Fixed Output 1) +5V/1A 2) +/-12V/1A
	Regulation	0.10%
	Load	1mV
	Mains	170 to 240V
	Ripple & Noise	Less than 1mV
Protective Circuit:	Transient	100msec
	Short Circuit	Output falls to Zero
	Fuse	1A
Added Features:	Short Circuit Indication	Fuse Protection
Power Requirement:	Voltage	230V/ 50Hz
	Power Consumption	18W
Others:	Dimension in mm	130*220*110
	Weight	3Kg (approx.)
	Accessories	Fuse

6. Digital Multimeter : 4 Nos.

Type of Product	: Digital Multimeter
Model No	: DM-81
Capacitance Range (F)	: 20nF - 200 ?F
Display	: 3.5 Digit LCD Display
Current Accuracy (AC)	: (2% + 5) - (3% + 7)
Current Range (AC)	: 2mA - 20 A
Voltage Accuracy (DC)	: ?(1.5% + 5)
Current Accuracy (DC)	: (1.5% + 5)/2% + 5)/(3% + 5)
Input Power	: 9 V (6F22) Battery
Continuity Buzzer	: Approx. < 50
Voltage Accuracy (AC)	: (2%+5)/(1.8%+5)/(1.5%+5)/ (2%+7)
Resistance Accuracy	: (1.5% + 5)/(2% + 5)/(5% + 5) -10
Capacitance Accuracy	: (3% + 10)/(5% + 10)
Package Contains	: Test Leads,Holster,Manual
Voltage Range (AC)	: 0 to 750 V
Voltage Range (DC)	: 200mV - 1000 V
Resistance Range (Ohm)	: 0-200 M
	: 2mA - 20 A
DC Current Range (Amps)	

7. Bread-Board : 10 Nos.

Hard Plastic Aptechdeals Bread-Board - 840 points, Single Layer, Min Hole Size: 0.8mm

No. of Layers	single layer
Masking Color	white
Board Thickness	hard
Material	plastic
Min Hole Size	0.8mm

Desk stand Analog Meters for Educational purpose

- 8. DC Voltmeter 0 to 30 V : 4 Nos**
- 9. DC Voltmeter 0 to 12V : 4 Nos**
- 10. DC Ammeter 0 to 1 A : 2 Nos.**
- 11. DC Ammeter 0 to 500 mA : 2 Nos**
- 12. DC Ammeter 0 to 100 mA : 2 Nos.**
- 13. DC Ammeter 0 to 100 uA : 2 Nos.**

- 14. Rheostat : 0 to 1 K Ohms 1 A : 4 Nos.**
- 15. Rheostat : 0 to 500 Ohms 1 A : 4 Nos.**