

LBS COLLEGE OF ENGINEERING, KASARAGOD
QUOTATION NOTICE

No. D-891/2021

Dated: 03-02-2022

Sealed competitive quotations are invited for the Purchase of Lab equipments (Trainer Kits) for the EEE department of this institution specified in the schedule attached superscribing "**Quotations for the purchase of Lab Equipments (Trainer Kits) for EEE Dept. against quotation No. D-891/2021 due on 16.02.2022**". Quotations received after the time fixed on the due date is liable to be rejected. Maximum period required for the repairing / servicing of items should also be mentioned.

The prices quoted should be inclusive of all taxes, duties, delivery charges etc. The supplier shall also quote the percentage of rebate/discount if any offered by them against the materials.

Special conditions if any or printed on quotation will not be applicable to the contract unless they are expressly accepted in writing by the undersigned.

Due date and time for Receipt of Quotation	:	16.02.2022 at 2 pm
Date and time of opening the Quotation	:	17.02.2022 at 3 pm
Date up to which the rates are to remain firm for acceptance	:	1 year
The Designation and address of the Officer	:	The Principal
To whom the Quotation is to be addressed	:	LBS College of Engineering, Muliya (P.O), Kasaragod- 671 542


Kasaragod
Date: 03.02.2022

Encl:

Copy to:

- 1) College website
- 2) Notice Board




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KASARAGOD - 671 542

Details of items required

Sl No.	Specification	Nos.
1	Temperature measurement Trainer	2
2	LVDT Measurement Trainer	1
3	Strain measurement trainer	1
4	Load Measurement Trainer	1

Detailed Specifications

1. Temperature Measurement Trainer - (2 Nos)

POWER SUPPLY +12 - 0 - -12 V 500mA to drive digital integrated circuitry.

+5 - 0 - -5 V 250mA to drive A to D converter

Signal Conditioning And Amplifying

Analog To Digital Converter.

DISPLAY: 3 1/2 Digit LED Display of 200 mV FSD

INITIAL SET: Single turn potentiometer to set Initial Temperature (Room Temperature)

FINAL SET: Single turn potentiometer to Calibrate the instrument (Max. Temperature)

SELECTION: 3 Way Rotary Switch to Select RTD, Thermocouple and Thermistor.

Heating System: For Boiling Water

Warranty - 1 Year

2. LVDT Measurement Trainer (1 No)

DISPLAY: 3 1/2-digit seven segment LED display of range

200mV for full scale deflection. to read +/- 1999 counts.

Excitation Voltage: 1000 Hz at 1V

Operating Temperature: +100 C to 550 C

Zero Adjustment: Front panel through Potentiometer.

Sensitivity: 0.1mm * System Inaccuracy: 1%

Repeatability: 1% * Connection: Through 6 core shielded cable with Din connector

Power: 230 V +/- 10 %, 50 Hz

Sensor Range: +/- 10.0 mm * Winding Configuration: LVDT

Excitation Voltage: 1 to 5 kHz at 1 to 5V

Linearity: 1%

Operating Temperature: 0 Deg C to 55 deg C

Calibration Jig: Micrometer of 0 to 25mm length.

Warranty - 1 Year



3. Strain Measurement Trainer (1 No)

Display Range: 3 1/2-digit LED display of 200 mV FSD to read up to +/-1999 micro strain.

Gauge Factor Setting: 2.1

Potentiometer to set zero on the panel.

Bridge Excitation: 10v Dc

Bridge Configurations: Full bridge.

Max. Load: 1kg.

Power: 230 V +/- 10% at 50hz.

Cantilever Beam Specification

Material: Stainless Steel

Beam Thickness (t) : 0.25 Cm.

Beam Width (b) : 2.8 Cms.

Beam Length (Actual): 22 Cms.

Youngs Modulus (e): 2×10^6 Kg / cm².

Strain Gauge: Foil type gauge

Gauge Length (l): 5 mm

Gauge Resistance (R): 300 Ohms.

Gauge Factor (g): 2.01

Warranty - 1 Year

4. Load Measurement Trainer (1No)

Load Cell Sensor: Strain gauges bonded on steel member for load measurement.

Type: Compression.

Strain Gauge Resistance: 350 ohms \pm 2%

Max. Loading: 1 Kg.

Connection: Through four core shielded cable attached to the load cell.

Excitation: 10V DC

Accuracy: 1%

Linearity: 1%

Max. Over Load: 125 %

Display: 3.5-digit seven segment LED display is used for the indicator of 200 mV full scale deflection to read '+/- 19.99'.

Excitation: 10 V DC

Accuracy: 1%

Calibration: 1.00 Kg Load.

Power Supply: 230 V +/- 10% 50

Warranty - 1 Year



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