

**Inter University Centre for
Evolutionary and Integrative
Biology University of Kerala
Kariavattom,
Thiruvananthapuram**

NOTIFICATION

Ref no: iCEIB/PURCHASE/EQP/002/23

dated :31st July 2023

Competitive tenders are invited from the reputed firms/ manufactures/distributors for the supply of following mentioned equipment's in the iCEIB, University of Kerala. The tenders shall be submitted to the Hon. Director, Inter-University Centre for Evolutionary and Integrative Biology (iCEIB), University of Kerala, Kariavattom campus, and 695581, Thiruvananthapuram, Kerala on or before **19th August 2023 at 3.30pm.**

1.	Name of the Equipments	1.DOUBLE BEAM UV-VIS SPECTROPHOTOMETER TOUCH SCREEN 2. AUTOCLAVE (Vertical) 3. PH/MV/TEMP BENCH METER
2.	Documents to be submitted.	<u>Technical Bid</u> 1. Address and details of the firm 2. GST registration details 3. Technical details 4. Any other relevant information <u>Financial Bid</u> 1. Financial Quote
3.	Last date of receipt of tender/Bid closing	19/08/2023-3.30 PM
4.	Date and time of Opening Bid	21/08/2023-10.30 AM

Specifications

1. DOUBLE BEAM UV-VIS SPECTROPHOTOMETER TOUCH SCREEN

- **CE , ISO 9001, FDA, NSIC CERTIFIED**
- 10.1 Inches Colored Touch Screen
- Auto Wavelength Setting at 0.1 nm interval
- On-screen Standard and Kinetic Curve Display
- Tungsten/Deuterium Lamp can be turned ON/OFF Individually to Extend Lifetime
- Application Software provides complete control of the instrument from a computer through the built-in USB Port.
- Basic, WL Scan, Multi-Wavelength, Kinetic, Quantitative, DNA/Protein modes
- Pre-aligned design makes it convenient to change Lamps
- FUNCTION : Basic, Wavelength Scan, Multi Wavelength, Kinetics, Quantitative, DNA/Protein
- WAVELENGTH RANGE : 190 - 1100 nm
- SPECTRAL BANDWIDTH : 1.8 nm
- OPTICAL SYSTEM : Double Beam, Grating 1200 lines/mm
- WAVELENGTH ACCURACY : ± 0.1 nm
- WAVELENGTH REPEATABILITY: ± 0.1 nm.
- SCANNING SPEED: HI, MED & LOW, MAX. 3600 nm/min
- PHOTOMETRIC ACCURACY: ± 0.3 %T or ± 0.002 A/h @1 A
- PHOTOMETRIC RANGE: %T : 0 - 200% , Abs : -0.3 to 3A, Conc. : 0 - 9999 C
- STRAY LIGHT : $\leq 0.03\%$ @ 220 nm & 360 nm
- STABILITY : ± 0.001 A/h @ 500 nm
- DISPLAY : 10.1 Inches Colored Touch Screen
- BASELINE FLATNESS: ± 0.001 A/h (200 -1000 nm)
- SAMPLE COMPARTMENT: 2 cell - 10 mm path- length.
- LIGHT SOURCE : Halogen & Deuterium Lamps (Pre-Aligned)
- PRINTER INTERFACE : Parallel port for Dot Matrix
- POWER : 230 V $\pm 10\%$ AC, 50 Hz

Supplied with Glass Cuvettes(A set of 4) , Quartz Cuvettes (A set of 2)

2.AUTOCLAVE (Vertical)

- Double walled construction, inner body made of heavy gauge stainless steel 304 quality sheet.
- The lid and ring are made of stainless steel plate.
- The lid is fitted with pressure gauge, safety valve, steam exhaust valve and vacuum breaker provided safety valve is set to blow off at 15 PSI.
- A silicon rubber gasket is fitted in the ring to ensure steam tight joint of the lid.
- Outer body made with choice of S.S. sheet or M.S. sheet powder coated.
- Foot operated lifting mechanism for lid opening. Electrically operated, ISI quality immersion type heaters are used for heating.
- The Autoclave is supported with three sturdy legs duly painted.
- Supplied with S.S Perforated basket.
- Outer S.S. & Inner S.S.- Size: 250x450 mm, 23 Ltr., 1.5 K.W
- CE , ISO certified

➤ Automatic water level cut-off system

3.PH/MV/TEMP BENCH METER

pH Range	0.00 to 14.00 pH
Resolution/Accuracy	0.01 pH/± 0.01 pH
mV Range	± 1999 m.V
Resolution/Accuracy	0.1 (± 199.9 mV) / 1 mV (>± 199.9 mV) ± 0.2(± 199.9 mV) /± 2 mV (>± 199.9 mV)
Temp.Range	0.0 to 100.0°C
Resolution/Accuracy	0.1 °C/ ± 0.3 °C
ATC	Yes (0 to 100 °C)
No.of pH Calibration Points	5 points
Buffer Options	USA; pH 1.68, 4.01, 7.00, 10.01, 12.45 NIST; pH 1.68, 4.01, 6.86, 9.18, 12.45
Built-in Electrode Arm	Yes
Memory	100
Output	Recorder(+2000 mV)
Electrode	Included general purpose glass-body refillable indigenous pH combination electrode BNC connector, 1m cable length
Temp.Probe	Included (Indigenous)
Power Requirements	Included, adapter for 220 VAC,500 mA,9 VDC

Terms and Conditions

- The price quoted should be that applicable for the educational institutions (with 18% GST)
- **The items should have an onsite warranty for at least 2 years.**
- The firm should be capable to extend immediate service, which in no way should not exceed 24 hours.
- Prices are to be quoted FOR DESTINATION (*i*CEIB, University of Kerala, Kariavattom). The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty if any (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
- Technical Bid and Financial Bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
- **If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in single tender it will be summarily rejected.**
- Performance Certificate of the specified model should be attached along with the quotations.
- The undersigned reserves have the right to reject any or all of the tenders received without assigning any reason thereof.
- If any of the components is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.

- **Supplier authorization letter and specification compliance sheet to be provided along with the quotation.**
- The interested bidders shall submit their best possible offer before last date to the undersigned.

The bid (Technical and Financial), complete in all respects may be submitted to **Hon. Director, iCEIB, University of Kerala, Kariavattom, Thiruvananthapuram 695581.** On or before **19.08.2023, 3.30 PM.**

Thanking you

Yours sincerely,

Sd/-

Hon. Director