

UNIVERSITY OF KERALA DEPARTMENT OF AQUATIC BIOLOGY & FISHERIES

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QUOTATION NOTICE (Retender)

Sealed quotations are invited from the Original Equipment Manufacturers (OEM) or their authorized dealers for supply and installation of the following equipments for implementing the **Innovative Project- Establishment of Aqua Clinic** (UO No. PlA1/35088/AQB/2019) at the Department of Aquatic Biology and Fisheries, University of Kerala as per the specification mentioned here.

Last date and time of receipt of quotations: **13-07-2022**; **04.00 PM**Quotation may be addressed to: The Professor & Head, Department of Aquatic Biology and Fisheries, University of Kerala, Karyavattom, Thiruvananthapuram 695581

SL. No.	Item	Specifications	
1	Double Beam UV- Vis- Spectrophotometer (One)	Wavelength range	190 to 1,100 nm
		Spectral bandwidth	1 nm (190 to 1,100 nm)
		Wavelength display	0.1 nm increments
		Wavelength setting	0.1 nm increments
		Wavelength accuracy	± 0.1nm
		Wavelength repeatability	± 0.1 nm
		Wavelength scanning	3,000 to 2 nm/min
		speed	
		Photometric system	Double beam optics
		Photometric range	Absorbance: -4 to 4 Abs
			Transmittance: 0% to 400%
		Photometric accuracy	± 0.002 Abs at 0.5 Abs
			± 0.004 Abs at 1.0 Abs
			± 0.006 Abs at 2.0 Abs
		Photometric repeatability	Less than ± 0.0002 Abs at 0.5
			Abs
			Less than ± 0.0002 Abs at 1 Abs
			Less than ± 0.001 Abs at 2 Abs
		Baseline flatness	Less than ± 0.0006 Abs (1,100 to
			190 nm, one hour after light
			source turned ON)
		Noise level	Less than 0.00003 Abs (700 nm)

Light source	20-W halogen lamp and
	deuterium lamp Built-in light
	source auto position adjustment
Monochromator	LO-RAY-LIGH grade blazed
	holographic grating in Czerny-
	Turner mounting
Detector	Silicon photodiode
Output device	USB memory can be inserted.
Display	24-bit color touch screen
Cuvette	pair (2 nos) of quartz cuvette
	will be supplied

SL. No.	Item	Specifications			
	Multiparameter water analyzer and COD Test tube heater (One each)				
2	Multiparameter water analyzer	Measurement Channels	Digital electrode channel		
		Mode of measurement	Photometric method		
		Display	128 x 64 pixel LCD		
		Absorbance Range	0.000 to 4.000 Abs		
		Absorbance Resolution	0.001 Abs		
		Absorbance Accuracy	±0.003 Abs (at 1.000 Abs)		
		Light Source	LED		
		Bandpass Filter Bandwidth	8 nm		
		Bandpass Filter	±1.0 nm		
		Wavelength Accuracy			
		Light Detector	Silicon photocell		
		No of Cuvettes supplied	4 nos		
		Battery Life	3.7 VDC Li-polymer rechargeable		
			battery / >500 photometric		
			measurements or 50 hours of		
			continuous pH measurement		
		Humidity	0 to 95% RH, non-condensing		
		Output	USB-A host for flash drive; micro- USB-B for power and computer connectivity		
		Power Supply	5 VDC USB 2.0 power adapter with USB-A to micro-USB-B cable		
		Parameters to be measured (Fresh/Marine)	Alkalinity, Al, NH ₃ , Ca, Cl, COD, Cu, Hardness (Ca, Mg), Fe, NO ₂ , NO ₃ , DO, Ozone, pH, PO ₄ , P, Si, SO ₄ , Zn		
	COD Test tube	Reaction Temperature	105 °C – 150°C		
	heater	Temperature stability	±0.5°C		
		Temperature Range	-10°C – 160°C		
		Accuracy	±2°C		
		Block	Aluminium		
		Capacity	25 vials		
		Power supply	50 Hz, 250W		

Terms and Conditions

- 1. The bidder should submit following documents along with bid:
- Detailed technical compliance of product quoted with cross reference
- Brochure and literature of the product quoted establishing its Brand, Make, Model and Technical Specifications
- List of addresses of Offices/Company's Service Centres
- Original Equipment Manufacturer (OEM) Certificate/ Undertaking. If the bidder is not an OEM, Certificate of authorized dealership/ distributorship from the OEM.
- Certificate from the OEM for technical support to the bidder and supply of spares.
- Earnest Money Deposit (EMD): EMD calculated @ 1% of the Purchase Assessment Cost (PAC- excluding GST) should be paid by the firm. The EMD should be remitted by way of Demand Draft drawn in favour of 'The Finance Officer, University of Kerala' payable at 'SBI, University Office Campus, Palayam' and to be submitted along with sealed quotations.
- 2. Incomplete & conditional quotations received after the due date will be summarily rejected without assigning any reasons thereof
- 3. The Price/Rate quoted should be inclusive of all Taxes Freight, Packing & Forwarding Charges, Handling, Delivery Charges, installation charges etc.
- 4. The configuration given is the minimum configuration that is/are required. Vendors may choose to supply higher/better/ enhanced systems, but their financial quotes shall be treated as if they have been offered for the specified configuration only.
- 5. The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.
- 6. The bidder is expected to examine all instructions, forms, terms, condition, and technical specifications in the quotation Documents. Failure to furnish all information required by the quotation documents or submission of a bid not substantially responsive may result in the rejection of its bid.
- 7. The bidders shall give undertaking that all the Components used in the equipments shall be original make as per the technical specifications submitted and the hardware/software shall be supplied with the authorized license certificates, if found contrary the supplier shall replace the component/equipment with original one at their own cost 8.
- 8. All prices should be in INR
- 9. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation should be made at the Department in Karyavattom campus without any extra cost. Complete installation, testing of the system and demonstration are to be provided at site.
- 11. Service facility: Supplier should mention their details of service setup and manpower in Kerala who are responsible for service and supply of AMC, if any.
- 12. In case of any dispute, the decision of the University authority shall be final and binding on the bidders. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

The quotations should be submitted in sealed over with title "Quotation for the equipments for implementing the Innovative Project- Establishment of Aqua Clinic at the Department of Aquatic Biology & Fisheries, University of Kerala"

Dr A BIJU KUMAR

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