



**UNIVERSITY OF KERALA**  
**DEPARTMENT OF AQUATIC BIOLOGY & FISHERIES**

Karyavattom, Thiruvananthapuram 695 581, Kerala, India  
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**RE-QUOTATION NOTICE**

Sealed quotations are invited from the Original Equipment Manufacturers (OEM) or their authorized dealers for supply and installation of the equipment for implementing the **Innovative Project- Establishment of Aqua Clinic** (UO No. PIA1/35088/AQB/2019; 13002/PLANNING A1/UOK dtd 29.06.2022) 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: **29-07-2023; 03.00 PM**

Quotation may be addressed to: The Professor & Head, Department of Aquatic Biology and Fisheries, University of Kerala, Karyavattom, Thiruvananthapuram 695581

Item	Specifications
	<p>Multiparameter water analyzer and COD Test tube heater <b>(One each)</b></p> <p>Multiparameter Photometer robust multi-parameter photometer with an extensive range of testing parameters, for those needing to perform testing of drinking and wastewater and obtain accurate and reliable results.</p> <p>Meter should have facility of</p> <ul style="list-style-type: none"><li>• <b>Robust construction</b> - Impact tested to IK08 as part of EN61010. Scratch and chemical resistant Coating</li><li>• <b>IP67 waterproof design</b> - Designed for use in wet and humid environments</li><li>• <b>Large touchscreen interface</b> - Intuitive and accessible with easy navigation, also works with wet and gloved hands</li><li>• <b>Multilingual onscreen instructions</b> - Step-by-step instructions on performing tests with little to no prior training required</li><li>• <b>Data logging</b> - Results are saved automatically, including test data, user, labels, and notes for audit and compliance</li><li>• <b>Data retrieval</b> - Easy access to data via Palintest Connect</li><li>• <b>Recycled Materials</b> - Case is made with recycled plastic</li></ul>

Multiparameter water analyzer	Measurement Channels	Digital electrode channel
	Mode of measurement	Photometric method
	Wavelengths	430, 465, 530, 575, 620 nm
	Wavelength accuracy	±1%T
	Display	Full color TFT- 16:9 ratio with 800 x 480 pixels; user interface PCAP touch panel
	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
	Memory capacity	1000 results
	Output	USB-A host for flash drive; micro-USB-B for power and computer connectivity
	Power Supply	6 x AA 1.5V Batteries or Standalone USB
	Parameters to be measured (Fresh/Marine)	Alkalinity, Al, NH <sub>3</sub> , Ca, Cl, COD, Cu, Hardness (Ca, Mg), Fe, NO <sub>2</sub> , NO <sub>3</sub> , DO, Ozone, pH, PO <sub>4</sub> , P, Si, SO <sub>4</sub> , Zn, turbidity
	No of reactions	50 & 250 reactions
	Size and Weight	<250 x <200 x <75 mm & < 1 Kg
	Connectivity	Via Windows App (USB) or Mobile App (QR code)
	Battery life	5,000 tests from a set of batteries
	IP Rating and standards	IP67
Reaction Temperature	105 °C – 150°C	
COD Test tube 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

- 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. 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.
  10. 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.
  11. 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

**Dr. A. BIJU KUMAR**  
**Professor & Head**  
**Dept. of Aquatic Biology & Fisheries**  
**University of Kerala**  
**Thiruvananthapuram-695 581, India**



Date: 20.07.2023