

QUOTATION NOTICE

Sealed quotations are invited from the eligible firms for the supply and installation of **Research grade bench top pH/EC Meter** for the Water Testing Laboratory of the Department of Environmental Sciences, University of Kerala, Kariavattom Campus, Thiruvananthapuram.

Technical Specification	
pH Range	-2.000 to 20.000 pH
pH Resolution	0.1, 0.01, 0.001 pH
pH Accuracy (@25°C/77°F)	±0.1 pH, ±0.01 pH, ±0.002 pH ±1 LSD
pH Calibration	automatic, up to five point calibration, eight standard buffers available (1.68, 3.00, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) and five custom buffers
pH Temperature Compensation	automatic or manual from - 20.0 to 120.0 °C
mV Range	±2000 mV
mV Resolution	0.1 mV
mV Accuracy	±0.2 mV ±1 LSD
Relative mV Offset Range	±2000 mV
EC Specifications	
EC Range	0.000 to 9.999 µS/cm, 10.00 to 99.99 µS/cm, 100.0 to 999.9 µS/cm, 1.000 to 9.999 mS/cm, 10.00 to 99.99 mS/cm, 100.0 to 1000.0 mS/cm actual EC*
EC Resolution	0.001 µS/cm, 0.01 µS/cm, 0.1 µS/cm, 1 µS/cm, 0.001 mS/cm, 0.01 mS/cm, 0.1 mS/cm
EC Accuracy (@25°C/77°F)	±1% of reading (±0.01 µS/cm)
EC Calibration	automatic standard recognition (0.000 µS/cm, 84.00 µS/cm, 1.413 mS/cm, 5.000 mS/cm, 12.88 mS/cm, 80.00 mS/cm, 111.8

	mS/cm) or user standard; single point or multi-point calibration
TDS Specifications	
TDS Range	0.000 to 9.999 ppm, 10.00 to 99.99 ppm, 100.0 to 999.9 ppm, 1.000 to 9.999 ppt, 10.00 to 99.99 ppt, 100.0 to 400.0 ppt actual TDS* (with 1.00 factor)
TDS Resolution	0.001 ppm, 0.01 ppm, 0.1 ppm, 1 ppm, 0.001 ppt, 0.01 ppt, 0.1 ppt
TDS Accuracy (@25°C/77°F)	±1% of reading (±0.01 ppm)
Salinity Specifications	
Salinity Range	practical scale: 0.00 to 42.00 psu; natural seawater scale: 0.00 to 80.00 ppt; percent scale: 0.0 to 400.0%
Salinity Resolution	0.01 for practical scale/natural seawater scale; 0.1% for percent scale
Salinity Accuracy (@25°C/77°F)	±1% of reading
Salinity Calibration	percent scale—one-point (with HI7037 standard)
Temperature Specifications	
Temperature Range	-20.0 to 120.0 °C**; -4.0 to 248.0 °F**; 253.15 to 393.15 K**
Temperature Resolution	0.1 °C, 0.1 °F, 0.1 K
Temperature Accuracy	±0.2 °C; ±0.4 °F; ±0.2 K (without probe)
Temperature Compensation	disabled, linear and non-linear (natural water)
Temperature Coefficient	Adjustable 0.00 to 10.00 %/°C
Reference Temperature	5.0 to 30.0 °C
Additional Specifications	
Cell Constant (Adjustable)	0.0500 to 200.00

Cell Type	4 cells
Electrode/Probe	Glass body pH electrode with BNC connector and 1 m (3.3') cable (included); HI76312 platinum, four-ring EC/TDS probe with and 1 m (3.3') cable (included)
Temperature Probe	Stainless steel temperature probe with 1 m (3.3') cable (included)
Profiles	up to 10, 5 each channel
USP (645) Compliant	yes
Input Channels	1 pH/ORP + 1 EC/TDS/Salinity/Resistivity
Display	color graphic LCD with onscreen help, graphing, and custom color configuration
Interface	Capacitive touch keypad
Connectivity	USB
Environment	0 to 50°C (32 to 122°F; 273 to 323 K), RH max 95% noncondensing
Power Supply	12 VDC adapter (included)
Warranty	2 years (probe 6 months)
Calibration buffer	Auto detect calibration buffers for EC

Conditions

1. The rate quoted should be inclusive of Tax, transportation charges and any other charges.
2. Complaints with the items supplied should be rectified /replaced to the satisfaction of the University by the suppliers at their own cost.
3. Payment will be made only after the supply of the items at our own site.
4. The undersigned reserves the right to reject /accept any quotation without assigning any reason.
5. The equipment should be installed in the Department of Environmental Sciences, University of Kerala.

The sealed quotations should reach **The Professor and Head, Department of Environmental Sciences, University of Kerala, Kariavattom Campus P.O.Thiruvananthapuram-695 581, Kerala** on or before **5/08/2022** at **3.00 p.m.**

Sd/-
Head of the Department
Department of Environmental Sciences

