

QUOTATION NOTICE

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

Technical Specification	
pH/ORP Specifications	
pH Range	-2.000 to 16.000 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
pH Temperature Compensation	Automatic, from - 20.0 to 120.0 °C
mV Range	±2000 mV
mV Resolution	0.1 mV
mV Accuracy	±0.2 mV ±1 LSD
EC Specifications	
EC Range	0 - 200 mS/cm
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); single point or multi-point calibration
TDS Specifications	
TDS Range	0 - 200 g/L

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	0.0 to 100.0 ppt / 0.00 to 10.00 %
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	one-point
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
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	
GLP	Yes
Ion Selective Electrode	Compatible (desirable)
ISE Range	0.01-100 ppm
ISE Resolution	0.01,0.1,1.00
Electrode/Probe	Glass body pH electrode (desirable)
Temperature Probe	Stainless steel temperature probe (desirable)
Input Channels	1 pH/ORP +1 EC/TDS/Salinity/Resistivity+ISE
Memory	Yes

Display	color graphic LCD with onscreen help, graphing, and custom color configuration
Interface	Capacitive touch keypad
Compliance	CE/RoHS/WEEE
Connectivity	USB
Environment	0 to 50°C (32 to 122°F; 273 to 323 K), RH max 95% noncondensing
Warranty	2 years (probe 6 months)

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 13/12/2022 at 3.00 p.m.**

Sd/-
Head of the Department
Department of Environmental Sciences