International and Inter University Centre for Natural Resources Management University of Kerala, Kariavattom campus

Quotations are invited for the following instrument from the manufactures/authorised suppliers

Instrument: MULTIPARAMETER WATER QUALITY ANALYSER

(PORTABLE METER pH/ mV/ ION/ CONDUCTIVITY/ TDS/

RESISTIVITY/ SALINITY/TEMP.)

TERMS & CONDITIONS

Delivery : At Kariavattom Campus

Rate : Inclusive of tax

SPECIFICATIONS

Waterproof handheld meter with software, power adapter & carrying kit set (all probes should have 3 m cable length). The instrument should have the following specifications:

- Simultaneously measure and display at least four parameters.
- Accept 2-cell and 4-cell Conductivity probe
- Measure 90.00 mg/L in DO concentration and 600 % in DO saturation.
- Rugged and waterproof for applications in harsh environments
- Step-by-step prompt that guide users through set-up, calibration and trouble-shooting
- High/low alarm limits
- Meter automatically should log up to 500 readings with time and date in GLP-compliant format
- Non-volatile memory
- Password protection

The individual specifications of each electrode are as follows:

	Range	-2.000 to 20.000 pH
	Resolution	0.1/0.01/0.001 pH
pН	Accuracy	±0.002 pH
	Auto-Buffer	Yes
	Recognition	

	Slope & Offset	Yes
	Display	
	Range	0.001 to 19900 ppm
	Resolution	2 or 3 digits
lon	Accuracy	0.5 % Full scale (monovalent)
		1 % Full scale (divalent)
	Calibration	Up to 8
	Points	
	Range	±2000.0 mV
mV	Resolution	0.1 mV
	Accuracy	±0.2 mV
_	Range	-10.0 to 110.0 °C/14.0 to 230.0 °F (Meter)
Temperature		0 to 60.0 °C/32.0 to 140.0 °F (DO)
	Resolution	0.1 ºC/0.1 ºF
	Accuracy	±0.5 °C/±0.9 °F
	Range	0 to 2.000,2.000 to 300.0 μS/cm;
		300.0 μS/cm to 4.000 mS/cm
		4.000 to 40.00 mS/cm,40.00 to 500.0 mS/*cm
	Resolution	0.05 % Full scale
		0.01, 0.1 μS/cm ; 0.001,0.01,0.1 mS/cm
	Accuracy	±1 % Full scale + 1 LSD
Conductivity	Calibration	4 (1 per range) auto,5 (1 per range) manual
Conductivity	Points	
	Cell Constant (K)	0.010 to 10.000
	Temperature	Linear & pure
	Coefficient	
	Normalisation	15 to 30 °C
	Temperature	
	Auto-Ranging	Yes
	Range	0 to 2.000,2.000 to 300.0 ppm;
		300.0 ppm to 4.000 ppt
TDC	Danaludian	4.000 to 40.00 ppt,40.00 to 500.0 ppt#
TDS	Resolution	0.05 % Full scale
	Accuracy	0.01, 0.1 ppm; 0.001,0.01,0.1 ppt
	Accuracy	±1 % Full scale + 1 LSD
	Calibration	5 points
	Points Conversion	0.4000 to 1.000
	Factor	0.4000 to 1.000
	Auto-Ranging	Yes
Salinity	Range	0 to 0.770,0.770 to 143.3 ppm;
	i lange	143.3 ppm to 2.138 ppt
		2.138 to 23.64 ppt,23.64 to 80.00 ppt#
	Resolution	0.01, 0.1 ppm ; 0.001,0.01 ppt
	Accuracy	±1 % Full scale + 1 LSD
	nocuracy	±1 /0 I UII SCAIC + I LOD

Resistivity	Range	2.000 Ω to 25.00 Ω , 25.00 Ω to 250.0 Ω , 250.0 Ω to 3.333 k Ω , 3.333 k Ω to 500.0 k Ω , 500.0 k Ω to
		20.00 ΜΩ
	Resolution	0.01Ω , 0.1 Ω , 0.001 Ω , 0.1 Ω , 0.01 $M\Omega$
	Accuracy	±1 % Full scale + 1 LSD
	Operating	0 to 50 °C
	Temperature	
Meter	ATC	Yes
Features	Hold Function	Yes
	Ready Function	Yes
	Memory	500 Data sets
	Inputs	DC Phono sockets, BNC, 8 Pin connector, 6 pin
		connector
Power		4x 1.5 V 'AA' Alkaline batteries or 9 V DC
		Adapter, 500 mA

Interested parties may submit their quotations on or before 4pm, 24th November 2017 to the following address:

Co-ordinator
International and Inter University Centre for Natural Resources Management
University of Kerala
Kariavattom campus
Trivandrum 695 581