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Date: 08.11.2011

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Ref:No.PU/ES/52/2011-12/

Sub: Quotations invited for supply of **pH Meters** & **Water Analyzer** – Reg.

Sir,

I invite Sealed Quotations for supply of **pH Meters and Water Analyzer** as per the terms given below:

Items and Specifications

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- 1. Bench Top pH meter
- 2. Portable pH meter
- 3. Portable water Analyzer

For item no.1 to 3 detailed specifications are mentioned in Annexure – I

Terms & Conditions:

- 1. The quotations should be Sealed and superscribed as "Quotation for supply of Water Analyzer and pH Meters"
- 2. The quotations should reach the undersigned at 3.00 PM on or before 25 -11-2011
- 3. The rate quoted should be duly on FOR destination basis and should be inclusive of all taxes.
- 4. Payment will be made against bill after receipt of items in good condition at our premises
- 5. University has right to select or reject any quotation partly or fully without assigning any reason

Yours sincerely,

-sd-

(S. BALAKRISHNAN)

Encl: Annexure – I

1. Bench top pH Meter:

Technical Specification:

	pН	\mathbf{mV}	Temperature
pH Range:	0 to 14 pH	±1200	-30 to 150°C
Resolution:	0.01/0.001 pH	±1	\pm 0.15 to 0.002°C
	0.04 TT 4.11 1.	4	0.100

Accuracy : $\pm 0.01 \text{ pH} \pm 1 \text{ digit}$ 1 0.1°C

Display:

pH/mV : 7 Segment LED Display

Temp : Backlit LCD Keypad : Alpha Numeric Input : >10 12 Ohms

Input Impedance:

Standard Buffer Set : NIST, DIN, USA

Calibration : Upto 5 Point Auto/Manual Recognition

Temp. Compensation: -10 to 100°C (Auto/Manual)

Slop control : 80 to 100% Operating condition : Temp 0-80°C No. of Sample storage: 100 or more

Electrode : Non Glass/ Poly Coated over glass & Replaceable electrode

Power supply : 230 Volts 50Hz Single phase.

Spares & Accessories:

Price of spare pH/temp electrodes, consumables and Printer should be quoted separately.

2. Portable pH meter:

Technical Specification:

	pН	\mathbf{mV}	Temperature
pH Range:	0 to 14 pH	0 ± 200	0 to 100°C
Resolution:	0.01 pH	0.1	0.1°C

Display : pH and Temp display in Single LCD

Standard Buffer Set : NIST & USA

Calibration : Upto 3 Point Auto/Manual Recognition

Operating condition : Temp 0-80°C No. of Sample storage: Minimum 50

Electrode : Non Glass/ Poly Coated over glass & Replaceable electrode

Power supply : Internal Battery with charger.

Spares & Accessories:

Price of spare electrodes, consumables, battery etc., should be quoted separately.

3. Portable Water Analyzer:

Technical Specification:

<u>pH:</u> <u>D.O:</u>

pH Range : 0 to 14 pH Range : 0 to 20 ppm Resolution : 0.01/0.001 pH Resolution : 0.1 ppm

Accuracy : ± 0.01 pH ± 1 digit Accuracy : ± 1 of FS ± 1 digit ± 0.1

Sensor : GE & RE/ Combn. Electrodes Sensor : Au/Ag Probe

Temp. Compensation: Auto/Manual Temp. Compensation: Auto/Manual

mV/ORP: Temperature:

Range : $\pm 1999 \text{ mV}$ Range : $\pm 0 \text{ to } 100^{\circ}\text{C}$ Resolution : 0.1°C

Accuracy : $\pm 1 \text{ mV}$ $\pm 1 \text{ digit}$ Resolution : 0.1 C Accuracy : $\pm 0.5^{\circ}\text{C}$ $\pm 1 \text{ digit}$

Sensor : GE & RE/ Combn. Electrodes Sensor : PT 100

Colorimeter: Turbidity:

Range : $\pm 2.00 \text{ Abs}$ Range : 0 to 1 NTU

Resolution : 0.001 Abs Accuracy : $\pm 2\%$ of FS Accuracy : 0.0001 Abs, 0.1% T Sensor : Photo Diode Sensor : Photo Diode Source : Tungsten Lamp

Source : Tungsten Lamp
Filters : Blue (440 nm)

Green (540 nm) Red (660 nm)

Conductivity/TDS:

Range : 0 to 100 mS, 5 ranges,

0 ppm to 100 ppt 5 ranges at TDS factor 0.5(approx.) & TEMPCO 2%

Accuracy : \pm 1% OF FS \pm 1 digit

Sensor : Glass/PVC cond. Cell (Acceptable from 0.1 to 5.0 cell constant)

Temp. Compensation: Auto/Manual

Salinity:

Range : 0 to 40 ppt Resolution : 0.1 ppt

Accuracy : ± 2 of FS ± 1 digit

Sensor : Glass/PVC cond. Cell (Acceptable from 0.1 to 5.0 cell constant)

Temp. Compensation: Auto/Manual

General Specification:

Display (LCD) : 2 Line 20 Char. Alphanumeric Printer Pot : Centronic Printer interface

Optional : Pt.Electrode

Power : 230 V 50Hz \pm 10% or Internal Battery with charger

Dimensions : $420 \times 520 \times 175 \text{mm}$ (DxWxH)

Weight : 7.5 kg (Approx.) Page 2 of 2