

**Office of the Dean Research and Development  
Indian Institute of Engineering Science & Technology (IEST), Shibpur  
Howrah-711 103**

**Project Code: DRC/CCRH/CHST/AB/12/17-18**

**Centre for Healthcare Science and Technology,  
Indian Institute of Engineering Science and technology, Shibpur  
Howrah-711 103**

**Ref.: Tender Advt. No. CHST 1332, dated 24.01.2018**

**Notice Inviting Quotations**

Sealed quotations are invited for the supply of following Instruments

- a. Precision balance**
- b. pH/conductivity meter**

The invitation is valid for 07 working days from the date of publication of this notice.

**Dean (R & D)**

**(A. Code DRC-T114/17-18)**

## **SECTION I: TERMS & CONDITIONS**

1. The last date of receipt of quotation is valid **for 10 working days** from the date of publication of this notice. Quotations received later will not be entertained under any circumstances.
2. Potential supplier are to submit the quotations in Sealed Cover to the Centre of Excellence for Green Energy & Sensor Systems in the following address:

**1. Dr. A. Barui**  
**CHST**  
**IEST, Shibpur**  
**Howrah-711103, India**

Item name must be mentioned on cover.

3. The price quoted should be inclusive of all Taxes in INR, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated. If GST is chargeable then price quoted should be inclusive of GST in INR.
4. Vendor should have proven track record of supply in IEST, IIT, NIT, IISc.
5. Commercial Papers duly signed & must be attached.

## **SECTION II: Specifications:**

<i>Name of Instrument</i>	<i>Specification</i>	<i>Quantity</i>
Precision balance	Weighing Capacity: 40/60/120 g. Readability : 0.01/0.01/0.1 mg Repeatability: 0.02/0.04/0.07 mg. Linearity : $\pm 0.1/0.1/0.2$ mg. Pan size : 80 mm dia. Dimensions (D x W x H) : 376 x 214 x 316 mm Calibration isoCAL – fully automatic, temperature- and time-controlled internal adjustment Display - High Resolution Touch Screen Display Interface ( mini USB ) Direct data transfer to Microsoft® Windows programs without any additional software – Programmable interval for data output – Choice of SBI, xBPI, table format or text format data transfer protocols Supervisor lock Weigh cell Mounted on a heavy-duty die-cast plate made of a special aluminum alloy – Stable and repeatable weighing results guaranteed, along with minimum dependence on temperature Warranty 3 years	1
pH/conductivity meter	<u>pH</u> Range -2.000 to 20.000 Resolution 0.1, 0.01, 0.001 Relative Accuracy $\pm 0.002$ Calibration Points Up to 5 Calibration Editing Yes <u>mV/RmV</u> Range $\pm 2000.0$ mV Resolution 0.1 Relative Accuracy $\pm 0.2$ mV or $\pm 0.05$ % of reading whichever is greater EH ORP Mode Yes <u>Conductivity</u> Range 0.001 $\mu$ S to 3000 mS Resolution 0.001 $\mu$ S minimum; 4 significant figures minimum Relative Accuracy 0.5 % reading $\pm 1$ digit	1

	<p>Reference Temperature 5, 10, 15, 20, 25 °C (default)  Temperature (0 to 10.0 %/°C),  Compatible 0.001 to 199.9  Calibration Points Up to 5 points  Calibration Editing Yes  Temperature Range -5 to 105 °C, 23 to 221 °F  Resolution 0.1  Relative Accuracy ±0.1  Offset Calibration 1 point  <u>Datalogging</u>  Memory- 2000 with time and date stamp  Log Function- Manual, ready (includes  AUTO-READ™), timed  Log Edit - Delete individual points,  group of points or all  Inputs  pH Electrode - BNC, reference pin  Conductivity with –8-pin mini-DIN  Temperature Probe  or ATC Probe</p> <p>Output RS232, USB  Power AC Adapter Included – universal, 100-240 VAC  Battery Power Optional – 4 AAs  Battery Life 800 hrs  Warranty 3 years</p>	
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