

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

Project Code: DRC/NMPB-MoA/CHST/CDM/028/16-17

**Centre for Healthcare Science and Tehnology
Indian Institute of Engineering Science & Technology
P.O.: Botanic Garden, Dist: Howrah, West Bengal, India- 711103**

Ref.: Advt. No. CHST 1346, Dated: 12.02.2018

Notice Inviting Quotations

Complete sealed quotations are invited for the supply of items listed below as per specification mentioned. The quotation should include the delivery charges of the items to Indian Institute of Engineering Science & Technology, Shibpur, and should mention a firm delivery period. Preferences will be given to the suppliers who can supply ex-stock & can supply all the items mentioned below.

The relevant bidding document can be downloaded from the website.

Last date of submission of sealed quotation is **07 working days from the date of publication and tender will be opened on the next working day at 12 noon.**

ITEMS

1. Ultrasonic bath sonicator
2. Digital pH meter

Dean (R & D)

(A. Code DRC-T126/17-18)

This is downloadable

**INDIAN INSTITUTE OF ENGINEERING SCIENCE & TECHNOLOGY
PO: BOTANIC GARDEN, DIST: HOWRAH, WEST BENGAL, INDIA-
711103**



BIDDING DOCUMENT

(Project Code: DRC/NMPB-MoA/CHST/CDM/028/16-17)

For Supply of

ITEMS

1. Ultrasonic bath sonicator
2. Digital pH meter

Under

**NMPB-MoA funded Project
Govt. of India (New Delhi)**

Centre for Healthcare Science and Technology

12th February, 2018

SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS
FOR BIDDERS

1. Bidders are invited to submit sealed quotation as per the technical specifications for tendered items addressed to Dr. Chitragada Das Mukhopadhyay, Centre for Healthcare Science and Technology, within 07 working days of publication in the web site.
2. Quotations received after the last date will not be entertained under any circumstances.
3. Date and time of opening of bid is next working day followed by last date at 12.00 noon and the place of opening of bid is Seminar Room of the Centre for Healthcare Science and Technology, Shibpur, Howrah-711103.
4. Bidders are to submit the quotations in Sealed Cover in the following address:

**Centre for Healthcare Science and Technology,
IEST, Shibpur
PO Botanic Garden
Howrah-711103, India**

5. All bids should be submitted in ONE-BID (TECHNO-COMMERCIAL BID) Format in covers (Enquiry Number must be mentioned on cover).

TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID - giving full Prices in Indian Rupees (only) for

- (a) Tendered item.
 - (b) Essential Accessories & Spares.
6. The price quoted should be inclusive of all Taxes, duties and levies. Inclusion of Tax/Levy at a later stage will not be accepted. Freight, Insurance charges should be clearly indicated.
 7. The materials are to be supplied at CHST, IEST, Shibpur premises between 11.00 a.m. and 4.00 p.m. on working day. The vendor will be responsible for any breakage, damage or defect in the items detected subsequently. The installation should be completed within a period not exceeding 15 days of the supply of the item.
 8. Bills in triplicate should be presented for payment within 15 days of Supply / Completion of work. No Advance Payment can be made. All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

10. Documents to be submitted with the tender:

- Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender.
- Proprietary certificate if any.

11. Customs Duty & Excise Duty

- IEST, Shibpur will not issue any C or D form availing of concessional Sales Tax/ VAT.
- IEST, Shibpur will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.

12. IEST, Shibpur reserves the right to accept or reject any or all tenders at its sole discretion without assigning any reason thereof and its decision in this regard shall be final.

We accept the above terms and conditions.

Signature of Bidders/Suppliers With date & Seal

SECTION II: TECHNICAL SPECIFICATIONS

Specification

1. Table top Ultrasonic bath sonicator

2. The system shall be microprocessor-based in design.
3. The system shall support the use of containers to be suspended in the bath
4. Capacity: 1.5L
5. Digital Timer and LED display
6. Power around 50W, frequency about 40 kHz. Noise emitted should be minimal; It should not exceed an equivalent sound pressure level of 85 decibels over an 8 hour workday.
7. The system shall maintain the accuracy and there shall be no necessity to calibrate the unit before every use.
8. The system shall be capable of operating directly from a 230V \pm 10%, 50 \pm 2 Hertz, single phase AC supply and equipped with 13A moulded construction power plug (BS1363/A type). All accessories shall be fully integrated.
9. The system shall be protected from transient power disruptions during use. The disruption shall not affect the performance of the unit. The unit shall be equipped with self-tripping circuit breaker for protection against overload.
10. The construction of the unit shall ensure a sufficient degree against safety hazards caused by overflow, spillage, leakage, humidity. The enclosure shall be secure and provide adequate protection against moving and electrically energized parts.

2. Digital pH meter

Table Top Digital pH Meter along with pH electrode, electrode stand, startup buffer solutions (pH 4.01, 7, 10.01) and auto temperature compensation probe.

1. Upgradable for ORP measurement
2. Up to five point calibration with auto buffer recognition
3. Splash proof key pad
4. LCD display
5. pH Range: 0-14
6. Resolution: 0.01 pH
7. Accuracy: \pm 0.01 pH
8. Calibration points: up to 5
9. Temperature Range: 0 – 100°C
10. Resolution: 0.1°C
11. Accuracy: \pm 0.3°C
12. pH buffer solution (NIST certified) for pH 4.01, pH 7.00 and 10.01

FOR destination price should be mentioned including all handling charges for both the items.