

ADVT. FORMAT for the Tender Notice

For: Institute Website

CENTER FOR HEALTHCARE SCIENCE & TECHNOLOGY

Indian Institute of Engineering Science and Technology, Shibpur; Howrah-711103

Tender Advt. No -.....

Dated: 25.04.2017

Sealed tenders are invited by the Centre for Healthcare Science & Technology, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103 from the original manufacturers/ sole authorized dealers/ country representatives/ vendors for the supply of Laboratory equipments for DST INSPIRE research grant.

Tender Documents containing details of the items and terms and conditions may be downloaded from the university website and completed bidding documents are to be submitted to the **Head, Centre for Healthcare Science & Technology, Indian Institute of Engineering Science and Technology, Shibpur; Howrah-711103** or dropped into the **Tender Box** kept in the Center. **Last date is seven days from publication.**

Head (CHST)

1. Technical Specifications for Item: Probe Sonicator

- Ultrasonic Power : 120W (Average)
- Ultrasonic Frequency : 20±2 HKz
- Processor Controller with time Operation in : Micro Processor based Programmable Timer Two Digit
- Display is Provided for Selecting On Off Time and Total time of Processing Cyclic Mode
- Probe Tips: Detachable type made of SS 304 Grade 6 mm Dia and 10-2 mm Dia.
- Cyclic Mode on : Maximum on time 15 Seconds no clamping off time
- Ultrasonic Horn : Is made of SS 304 Grade and is fitted with PZT Transducer
- Ultrasonic Generator Tuning : Is Housed in a separate box. It has auto facility & the required control Unit
- Standard Accessories : Stand for Ultrasonic Probe
- Sonicator, Mounting tools & Jack type for sample Placement.
- Sound proof box quoted as addition.
- Suitable displays.

2. Technical Specifications for Item: Shaking BOD incubator

- **Outer Construction:** MS powder coated.
- **Inner Construction :** The inner walls of the incubator will be pasted with laminated sheet to Avoid heat loss.
- **Samples viewing:** Transparent Acrylic/glass frame window from front.
- **Inbuilt Lighting:** Built in lighting attachment with low wattage provided with External Switch on the front panel.
- **Chamber Size in mm:** 170-200 lit with options for 250 ml, 500 ml and 1 lit flasks
- **No. of shelves:** 02
- **Temperature range:** (-5⁰ C) to 60⁰ C, Accuracy/ Uniformity: ± 0.5⁰ C/ ± 1⁰ C.
- **Display Control :** Microprocessor based PID control of Accuracy ± 0.1⁰ C by using PT 100 Sensor.
- **Speed Indicator:** Digital Speed Indicator on the front panel.
- **Drive Mechanism:** The drive mechanism powered by a permanent Magnet Geared D.C. motor with
- **Amplitude:** 25 mm dia Orbital motion.
- **Shaking Speed:** 20 – 250 Orbital strokes per min
- **Air Circulation:** By forced convection system
- **Insulation:** By High density PUF insulation
- **Operations:** Nearly silent operation with ultra-low vibration
- **High Voltage Protection:** Through automatic voltage stabilizer (Optional)
- **Electric Supply:** 220/230V AC, 50/60Hz
- **Chamber sterilization** By U.V. germicidal tube.