

**Department of Genetics, University of Delhi South Campus,
New Delhi- 110021**

Tender Enquiry for Ultrasonic Processor (Sonicator)

E-tender is invited from companies for supply & installation of an **Ultrasonic Processor (Sonicator)** with the requisite accessories needed for the effective functioning of the equipment as per specifications below. Quotations can be submitted on Govt. of India eProcurement website (<https://eprocure.gov.in/eprocure>).

Mandatory technical specifications

1. The machine should be a 750 watts, 20 kHz Ultrasonic Processor (Sonicator) with automatic tuning, energy (joules) monitor, energy controller and digital watt meter
2. The machine should have the following:
 - i. Temperature controller with Stainless steel 1/2 " (13 mm) threaded end probe to allow sample temperature to be monitored from 1°C to 100°C
 - ii. Microprocessor-based, programmable, LCD screen with user prompts and alphanumeric display
 - iii. 10 program storage capability with 10 hour process timer and variable amplitude control
 - iv. Full function pulser - ON and OFF cycle independently controllable from 1 to 59 seconds
 - v. Exclusive Energy Setpoint and Overload protection circuit
 - vi. Remote actuation connector, Footswitch jack, sealed converter and Quick disconnect converter cable
 - vii. Imported Sound Abating Enclosure (Imported make not Indigenous) outside Dimension (H x W x D) : 30" x 14" x 14" & inside Dimension (H x W x D): 27" x 11" x 11"
 - viii. Power Supply - 220V±10V AC, 50/60 Hz
3. ISO & CE Certification should be provided
4. Instruction manual and all other accessories should be provided in the toolkit
5. Demonstration of the equipment by technically qualified prospective supplier(s) is mandatory

Consumables to be included

1. MICROTIPS

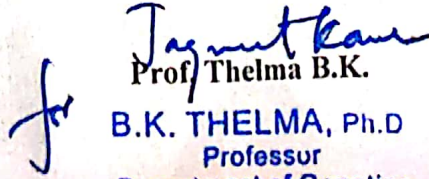
- 2 mm Stepped microtips for 0.2 ml – 5 ml vol. (1 no.)
- 3 mm Stepped microtips for 0.5ml – 15 ml vol. (1 no.)
- Coupler for Stepped microtips (1 no.)
- Tapered 3 mm microtips for 1 – 10 ml vol. (1 no.)
- Tapered 6 mm microtips for 10 – 50 ml vol. (1 no.)

2. PROBES (Optional)

- 3/4" (19 mm) Threaded end probe with pack of 10 replaceable tips
- 1" (25 mm) Threaded end probe with pack of 10 replaceable tips

Other Specifications

1. **Warranty / Guarantee:** Bid must be quoted with 1+3 years comprehensive on-site warranty including all components, accessories and annual maintenance. Warranty for extended period (beyond standard warranty of the respective companies) should be mentioned separately in the bid. It will be effective from the date of the satisfactory installation / commissioning of goods. The warranty would also be valid for any manufacturing defects, workmanship and poor quality of the components.
2. **Delivery & Installation:** All the goods ordered shall be **delivered & installed within five weeks from the date of issuing purchase order.** All the aspects of safe delivery, installation (calibration) and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, a penalty at the rate of 5% per week of the total order value will be levied.
3. 90 % payment will be made after delivery and installation and 10% after submission of bank guarantee for warranty period. 10% of the total bid amount should be provided as bank guarantee for warranty period and the same will be returned after the warranty period.
4. In need of any repair/replacement of the instrument after registering the complaint engineer should visit the lab within 24 hours, repair should be done in 48 hours and any replacement should be done within seven working days. If not done, 1% of the bank guarantee will be deducted on per day basis.
5. Item quoted should be complete in all respects; any additional accessories required for instrument to operate /function should also be quoted as part of the instrument and should be supplied along with instrument. It should not be included in optional.
6. Any deviation from the mandatory technical specifications and all other conditions proposed by the bidder should be clearly mentioned/highlighted in the first page of the tender. If deviations are not provided, the bid will be automatically considered as not complying with all the requirements and specifications mentioned in the tender.
7. Original manufacturer's product catalogue and specification sheet in English should be attached.
8. Comprehensive training for lab staff and support services till familiarity with the system is developed should be provided. Subsequently, assistance as and when required should be provided. The institute will not bear any training expenditure.
9. Bidder shall upload the tender document and addenda there to, if any, with each page of this document signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
10. Vendor should have minimum of 30 installations of quoted model/similar models in India in the last three financial years and should provide performance certificate from a minimum of ten users who have the model quoted here or similar model installed atleast two years prior to the certification. User list of same/different models of the instrument installed in the country with complete contract information should be attached in the bid.


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