

Department of Materials Science and Engineering

Date: 01/02/2017

Enquiry Number: IITK/MSE/VV/PS

We are interested to purchase one high intensity ultrasonic probe sonicator with accessories. The proposed machine should comply with or be better than each of the specifications mentioned in the Technical Specifications Section. **No quotation will be entertain if features will be lower than asked features.** Technical specifications are as follows:

- ❖ Temperature Monitoring, High Intensity, Ultra Sonic Liquid Processor for volumes
- ❖ ranging from 250 μ L to Liters.
- ❖ 750 watts and above, 20 KHz, automatic tuning, energy monitor, digital wattmeter,
- ❖ temperature controller, microprocessor based, programmable, LCD screen with user prompts, real time alpha-numeric display, at least 10 program storage capability, at least 10 hour process timer, variable amplitude control, full function pulser – ON and OFF cycle independently controllable from 1 second to 10 seconds, overload protection circuit, remote actuation connector, quick disconnect converter cable with appropriate Tool Kit with Non-slip laboratory mat.
- ❖ The instrument should also include a VCX temperature probe, branded sound abating enclosure, support rod, heavy duty converter clamps, laboratory jack and Couplers for fixing Tips.

It should also include following TIPS:

- ½" (13 mm) threaded end replaceable tip for large sample volumes
- 3 mm (1/8") stepped micro tip for medium volume 2 mm (5/64") Stepped micro tip for small volume
- 6 mm (1/4") Tapered Micro Tip for medium volume
- 5 mm (3/16") Tapered Micro Tip for medium volume

Please carefully note and comply with the following instructions. If any of the instructions are not followed, the submitted bid will be disqualified.

1. Please submit your bids in two separate envelopes named "Technical Bid" and "Price bid". The Technical bid should contain the detailed technical specifications of the proposed machine, photographs of the machine and other accessories offered. The Technical Bid should not contain any prices. The Price Bid should contain the technical specifications as well as prices in details.

2. The "Technical Bid" should contain one "Technical Compliance" statement, each page of which should have signature and seal of the prospective supplier. In this statement, each of the specifications mentioned in the Technical Specification should be re-written and the value (or range wherever applicable) offered in the proposed machine for the given specification should be specifically mentioned. This should be followed by stating whether the offered machine complies or does not comply with the concerned specification. If value offered by proposed

machine for any of the asked specification is not specified or comply/does-not-comply for each specification not specified or any ambiguity is left in the specifications, the bid will be disqualified.

3. The prospective supplier should be either original manufacturer or 100% subsidiary or authorized agent of the original manufacturer of the offered machine. The Technical Bid should contain an original certificate obtained from the principal company to this effect.

Warranty and accessories: Minimum two year warranty, extra warranty will be given extra waitage during financial comparison. Vendors submitted the quotations should have several installations in and around Kanpur and must have service center at Kanpur/Lucknow area.

4. The prospective supplier should have supplied the offered machine to at least 3 government or government-affiliated institutes, which should be either an IIT, IISc, NIT or a national laboratory like NML, NCL etc. The list of such persons having this machine and their contacts should be included in the Technical Bid.

5. Each of the envelopes should be appropriately marked as either "Technical Bid" or "Price Bid". Enclose the two sealed envelopes in another bigger sealed envelope and send it to the address mentioned below.

6. Include proprietary item certificate if applicable

7. Institute is exempted for partial custom duty (C D applicable to IIT Kanpur is 5.15%). Prices quoted should be FOB (indicating port of shipment) and CIF (IIT Kanpur) values separately if requires import.

8. Institute is exempted from payment of Excise Duty under notification No. 10/97.

9. The bids should reach the undersigned before 2 pm on 20th February 2017.

Dr. Vivek Verma

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