



**DEPARTMENT OF ELECTRICAL ENGINEERING
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Sub: Enquiry for Ultrasonic Probe Sonicator.

We are interested in procuring one **Ultrasonic Probe Sonicator** meeting the specifications given in Annexure-1.

Kindly submit sealed quotations for the same with complete details. So as to reach under mentioned mailing address **on or before 5 pm of October 19, 2015.**

Kindly adhere to the following Points:

- The quotation should contain the complete technical brochure.
- The order will be placed in the name of the principals.
- A certificate from principals indicating that you are their authorized dealer should be submitted.
- **The quote should be valid for a period of at least 90 days.**
- The warranty period should be clearly indicated.
- The time for delivery should be indicated.
- Payment terms will be as per IIT Kanpur rules.
- Specification should be enclosed in the quote.
- The indenter is reserve the right to cancel the tender without any answer.

(Dr. Nandini Gupta)
Professor

Annexure -1, Technical specifications for Ultrasonic Probe Sonicator

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| <i>The quoted model of the Ultrasonic Probe Sonicator should meet the specifications given below.</i> | |
| Application | Dispersion of the particles homogenized and emulsified products. Dispersed Nano Materials. |
| Quantity | One. |
| <i>The Ultrasonic Probe Sonicator should be contains as given below:</i> | |
| a) Power/Signal Generator | |
| Power Rating | 750 Watt |
| Frequency | 20kHz |
| Timer | 1 second & 99 hours, 99 minutes, 99 seconds adjustable |
| Power Regulation | 1% - 100%, 1% increasing |
| Temperature setting | 30-300 ⁰ C (1 ⁰ C progressive) |
| Pulse Control | Closed –loop, Open –loop: 1 second – 99 hours, 99 minutes, 99 seconds set arbitrarily, Delay (by appointment) treated sample Timer: 1 second – 99 hours, 99 minutes, 99 seconds set arbitrarily, |
| Programmability | 8 to 10 set of program groups can be set and stored |
| Display | LCD/Touch |
| Data Acquisition | Compatible with computer through USB/RS232/GPIB interface card etc. along with software. |
| Input Power | AC 230 Volts, 50 Hz Single Phase |
| b) Piezoelectric Energy Converter. c) Standard Configuration Probe: Probe 13 mm, Capacity: 10ml – 400ml d) Sound Enclosure e) Height adjustable jack stand f) Temperature Probe g) Relevant Tool Kit h) Relevant Software | |

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