

**School of Biological Sciences
Indian Institute of Technology Delhi**

25-10-2013

Sealed quotations are invited from reputed companies or their authorized representatives for supply of one no. of **SONICATOR WITH MULTIPLE PROBES**, conforming to the mentioned technical specifications (or superior than specified) and terms and conditions as prescribed under. Interested parties are requested to submit their sealed quotations in an envelope containing the financial and technical bids in separate sealed envelopes inside. The NIQ should be marked as “**sonicator with multiple probes**” and addressed to Co-ordinator School of Biological Sciences, Attn. to **Dr. Tapan K. Chaudhuri**, and submitted in the reception, School of Biological Sciences, Formerly IBM Building, Block -1A, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016 Latest by 4pm on November 18, 2013.

Technical specification for the sonicator with multiple probes

1. The sonicator should be suitable for disrupting cell suspensions 500 ul to 100 ml.
2. 20 kHz or comparable or better output frequency suitable for bacterial, yeast and various other cell disruption.
3. Automatic amplitude control and tuning.
4. Adjustable output power.
5. Energy pulsing to minimize heating of sensitive samples.
6. Output meter to monitor process power.
7. Mechanical timer
8. Ultrasonic converter.
9. The instrument should come with Disrupter tips or horns having diameter $\frac{1}{2}$ ", $\frac{1}{4}$ ", $\frac{3}{16}$ ", $\frac{1}{8}$ inches, and / or any other suitable diameters for cell disruption with 500 ul to 100 ml volume range.

10. The instrument should come with wrenches for removing tips from the instrument.
11. The instrument should come with stand and base for holding the sonifier probe and putting the sample holder.
12. The instrument should come with suitable sound proof cabinet / box for the sonicator to prevent sound during its use.
13. Suitable sample holders for small (upto 1ml) and larger volumes (2-10ml) and (5 –50ml) should come with the instrument.
14. The instrument should come with required capacity of Voltage stabilizer to run the system.
15. Warranty must be 2 years after installation and one year free service after the warranty period.
16. Price must be F.O.B Delhi.

Terms and conditions

1. Letter from manufacturer specifically to quote for this tender is to be attached for authenticity of dealership/agency and dealer should be authorized service provider.
2. Vendor should get a fresh certificate from their principal's clearly mentioning about on site comprehensive warranty for two years after installation of the systems to be delivered.
3. Special discount/rebate wherever admissible keeping in view of that the supplies is being made for Educational purpose in respect of public institution of national importance may please be indicated.
4. Vendor should attach the relevant product brochure/leaflet for the model quoted and the offered technical specification must be supported by the printed brochure.
5. Validity of the quotation should be atleast 3 months.

6. Vendor will do the installation and demonstration of the machine without any extra cost at IIT Delhi premises.
7. Taxes, terms and conditions should be clearly mentioned.
8. Proprietary certificate must be included for the item, if applicable.
9. Valid agency certificate must be included, if applicable.
10. IIT Delhi has the right to accept or reject any quotations without showing reasons.

Dr. Tapan K. Chaudhuri