

**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS NEW DELHI**

Date: 29/09/2015

**Notice Inviting Quotation**

Quotations are invited for the purchase of one **Ball milling machine**, for the Department of Textile Technology. Interested suppliers are required to submit their quotations as per the specifications given below. The sealed Quotations are to be submitted in two Separate envelopes;

**A - for Technical Quote (Specifications) &  
B - for Financial Quote  
(For details, see Annexure I)**

Both these envelopes should be further enclosed in an outer envelope, which should also be sealed and addressed to, clearly mentioning on top right corner of the envelope "quotations for **Ball milling machine**"

**Dr. B S Butola  
Associate Professor  
Department of Textile Technology  
IIT, Hauz Khas, New Delhi 110016**

The quotations should reach the above office by **3.00PM** on **15/10/2015**. If needed, the suppliers may be asked to make a technical presentation/demonstration of the equipment before the committee.

Institute reserves the right to accept or reject any of the offers without assigning any reasons.

**Specifications for Ball milling machine**

The Planetary ball mill should be capable of grinding (or mixing, homogenizing, milling, mechanical alloying etc.) Soft, hard, medium-hard, brittle, fibrous, tough and moist materials

1. Grinding station should be of single stage with two Stacking bowls facility.
2. Speed ratio 1:-2.
3. Grinding environment must have the capability of operating in both dry and wet conditions and also with inert gas environment.
4. Final fineness should be < 1 µm for dry grinding & < 0.1 µm for colloidal grinding.
5. Sample quantity range - 20 - 200 ml or better
6. Centrifugal force should be in the range of (>30) x g (acceleration of gravity)
7. Maximum Rotational Speed of the Main disk should be > 500 rpm.
8. Should have a programmable microprocessor controller
9. Additional Safety Lock
10. Stability on lab bench
11. Power consumption > 1.5 kW
12. Counter weight and imbalance sensor
13. Maximum jar speed, 0-1200 rpm or better

Dr. B S Butola

**Envelope A: Technical Quote: The following details are to be enclosed** (*Mention clearly on this envelope – **Technical Quote***)

1. Technical brochures mentioning all details with complete address of the principals.
2. A compliance chart based on the specifications as per the NIQ.
3. Any optional equipment / accessory / spares advised to be included separately.
4. Installation requirements including gases and chillers, UPS, etc.
5. List and addresses of organizations where the equipment has been supplied in last 3 years in India.
6. Details of other equipment supplied to IIT Delhi specifying the Department/ centre / lab to which the equipment was supplied. Also mention if the equipment is being maintained by your organization.
7. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support available in India.
8. If quote is for imported equipment supplied through Indian Agent, Sole Agency-ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.
9. Proprietary Item Certificate from the principals, if applicable.

**Envelope B: Financial Quote: The following details are to be enclosed/ ensured.** (*Mention clearly on this envelope – **Financial Quote***)

1. The quotations for the equipment in foreign exchange, if it is to be imported. The cost of spares and optional equipment/accessories to be quoted separately. The cost should be based on CIF, New Delhi. If equipment is indigenous, the quote should be in INR and all taxes applicable should be mentioned clearly.
2. Institute makes payment after delivery and successful installation. In case the payment terms are different, it should be mentioned clearly. If equipment is to be imported, the address of the company in whose name the LC is to be opened should be stated.
3. The comprehensive Warranty period.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if applicable.
6. Validity of the quote should be minimum 90 days.
7. The delivery period to be clearly specified.