

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

Date: 7th August, 2012

Notice Inviting Quotation

Quotations are invited for the purchase of **Temperature Control Circulator System for Syriss Atlas Automated Lab Reactor** 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 envelops:

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

Both these envelops should be further enclosed in an outer envelop, which should also be sealed and addressed to, clearly mentioning on top right corner of the envelop “quotations for **Temperature Control Circulator System for Syriss Atlas Automated Lab Reactor**”.

**Dr. Ashwini K. Agrawal
Professor
Room No. 206 or in Room 216
Department of Textile Technology
IIT, Hauz Khas, New Delhi 110016**

The quotations should reach the above office by 5:00 PM of 22th August, 2012. If needed the suppliers may be asked to make a technical presentation before the committee.

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

The Temperature Control Circulator System should have the following features:

1.	Type	Heating and cooling circulator system to be used with Syriss Atlas automated system compatible with both Potassium and Lithium unit.
2.	Model	Internationally known brand
3.	Working temperature range	-45 - 250 °C
4.	Temperature control	ICC
5.	Temperature stability	±0.01 °C
6.	Temperature adjustment	Touch screen, encoder

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7.	Temperature indication	5.7" colour TFT display
8.	Display	TFT-Dialog
9.	Display resolution	0.01 °C
10.	Internal temperature sensor	Pt 100
11.	Sensor external connection	Pt 100
12.	Heater capacity	2.7 kW
13.	Heating power convertible	3.0 kW
14.	Flow rate	16 - 40 l/min
15.	Digital interfaces	RS232, RS485
16.	Refrigeration machine	Air-cooled, CFC-and HCFC free
17.	Refrigerant	R507
18.	Dimensions (W x L x H)	Compact tower type with max. dimensions 33 x 59 x 67 cm
19.	Filling volume	3.5 - 4 Litres
20.	Bath liquid	Circulator fluid to be supplied suitable for the above range of temperature
21.	Pump capacity Pressure	0.9 bar
22.	Cooling capacity	200 100 0 -40 °C 1000 1000 900 100 W
23.	Operational requirement	Capable of working continuously for >12 h

Annexure I

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

1. All quoted models must be compatible with Indian power supply: 220 Volts/50Hz for single phase and 440 V/50Hz for three phase supply.

2. Quotation should be directly from Original manufacturer or authorized sales agent.
3. Sole agency certificate (if applicable) and its validity from Foreign Principals (in case of foreign manufacturer).
4. Proprietary certificate (if applicable, for any component or instrument quoted).
5. Mention any optional equipment / accessory / spares recommended to enhance the capability and/ or utility of the equipment.
6. Indicate all installation requirements including platforms, gases and chillers, UPS, etc.
7. State service support for the equipment in India, specifically in NCR.
8. Installation means Circulator Unit must be installed with the Syrris Atlas Automated Reactor and made operational from the Syrris control unit.

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

1. Prices of the quoted model should be FOB inclusive of all charges for **installation** (please refer to meaning of installation in technical conditions given above) and training; please note that IIT Delhi is exempted from central excise and attracts concessional custom duty. Institute also provides institutional form for concessional VAT for interstate transactions.
2. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
3. Guarantee and warranty conditions must be clearly specified; exemptions if any must be clearly stated.
4. Validity of quotation must be 90 days.
5. Mode of payment for local suppliers is through cheque after successful delivery and installation of the above equipment. For imported equipment payment is only through LC. The LC terms will be 90% at the time of delivery and 10% after successful installation.
6. For imported equipment, the address of the company in whose name the LC is to be opened should be stated.
7. Supplier must submit TIN number/ PAN number as applicable.
8. Institute reserves the right to order equipment with better quality over lower price and to accept or reject any or all the quotations without assigning reasons thereof.