INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS NEW DELHI

Date: 30/01/2015

Notice Inviting Quotation

Quotations are invited for the purchase of "**Ultra low temperature deep freezer",** 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 "**Ultra low temperature deep freezer**."

Dr. Sourabh Ghosh
Associate Professor
Department of Textile Technology
IIT, Hauz Khas, New Delhi 110016

The quotations should reach the above office of **by 5.00PM on 14/02/2015**. 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.

"**Specifications of "Ultra low temperature deep freezer".**

1	**Temperature Range**	*-80 °C to -90°C degree Celsius*
2	**Capacity**	*500- 550 litters.*
3	**Panel**	*The freezer must be constructed using 1" thick vacuum panel insulation in conjunction with environmentally-friendly water blown foam*
4	**Door Latch**	*Should allow one-handed opening and closing. Handle must include door key lock.*
5	**Shelves**	*5-6 independent, adjustable shelves, with inner doors.*
6	**Type**	*Upright. (Vertical)*
7	**Freezer width**	*Less than 30-40 inches*
8	**Door Gasket**	*Door gasket should have 7-8 independent insulation zones with 4-5 point of contacts to ensure sample security*
9	**Alarms**	*Audio and video alarms for: High-low temperature, preventative maintenance task, power fluctuations, power failure, system failure, battery low, Filter check, Door check, Part replacement notification*
10	**Sample storage**	*Should be capable of storing 30,000-50,000 storage vials of 2 ml*

11	**Security control**	*Freezer shall allow for set-point security control that blocks specific users from changing freezer set point*
12	**Data storage**	*An on-board data logger should be provided that allows for a minimum of 3GB of data storage*
13	**Door opening record**	*Freezer should be capable of maintaining record of all door openings and log the time the door was open and door was closed.*
14	**USB Port**	*A USB port should be there to transfer the recorded data.*
15	**Power management system**	*An indicator for incoming line voltage should be there to indicate low or high line voltage.*
16	**Indicators**	*Freezer shall display temperature of evaporator inlet, evaporator outlet, heat exchanger, first stage suction, second state suction, second stage sump, liquid line and condenser air inlet. This display shall display in a graphical as well as pictorial view to allow for diagnostic*
17	**Safety and performance standards**	*Freezer must be built to and contain the registration mark for UL, CUL, and CE standards for safety and performance.*
18	**Compressor**	*CFC and HFC free*
19	**Remote monitoring**	*Should have option for remote monitoring*
20	**Warranty**	*General warranty period should be minimum 36 months from date of installation. Apart from general warranty, Insulation Panel should be warranted for min. 10 years and compressor should be warranted for minimum 5 years.*
21	**Power supply**	*Power back up for minimum 4 hrs OR CO2 /Nitrogen back up and with automatic voltage stabilizer.*
22	**Accessories**	*(i) All applicable accessories (UPS, voltage stabilizer, Ice scraper, cryo racks, etc should be provided)*
		(ii) One table top ice flakes maker (min 20 kg/day, production start time of 10-15 min and CFC free)
		(iii) with wheels for easy movement (optional)

Dr Sourabh Ghosh
PI.
Department of Textile Technology

Annexure - I

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 / consumables advised to be included separately.
4. Installation requirements should be provided.
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 Delhi (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/ consumables 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. The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand.
3. 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.
4. The comprehensive Warranty period should be clearly mentioned.

5. The details of the AMC after the warranty period.
6. Cost for Installation and training at site, if applicable.
7. Validity of the quote should be minimum 90 days.
8. The delivery period to be clearly specified.