

INDIAN INSTITUTE OF TECHNOLOGY, DELHI
HAUZ KHAS NEW DELHI-110016

Chemistry Department

Date: 03.04.2012

Notice Inviting Quotation

Quotations are invited for the purchase of **Real Time PCR** for the Department of Chemistry. 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 enclosed in an outer envelope, which should also be sealed and addressed to, **Prof. M. N. Gupta, PI**, clearly mentioning on top right corner of the envelope "**Quotations for Real Time PCR**" with due date.

The sealed quotation (the "technical bid" & "financial bid" should be in separate and clearly marked sealed envelopes) should be addressed to **Prof. M. N. Gupta, Chemistry Department, IIT Delhi, Hauz Khas, New Delhi-110016**. Those wanting to submit it by hand should give this to **Room No. MS-705, Chemistry Department**. **The quotations should reach by 25/04/2012.**

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

Technical Specifications of Real Time PCR

Specifications for Real Time PCR

Real Time PCR should have the following features:

1. Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 96 well plates and tubes.
2. Should be capable to perform dye binding **thermal shift assays** for protein unfolding analysis.
3. Gradient capacity in Real-time.
4. Detection of 5 or more different fluorescent reporters in the same tube.
5. Maximum Ramping speed: 5 °C per sec.
6. Peltier Cooling & Heating for uniform temp control.
7. Should have one channel dedicated for FRET experiments.
8. Excitation – Emission range: 450 – 700 nm.
9. No internal reference dye should be required. True 5 Color Multiplexing with use of 5 different fluorophores in a single well without the need of addition of any internal reference dye.
10. Should have advanced excitation source (preferable LEDs or equivalent for a longer life) with Photodiode detector.
11. Dynamic range of 10 orders.
12. Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
13. Temperature range 4 - 99 °C with accuracy of ± 0.2 °C.
14. Minimum sample volume: 10 μ l.
15. Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds.
16. Gene expression analysis by relative quantity (Δ Ct) or normalized expression ($\Delta\Delta$ Ct).
17. End point analysis for upto 5 fluorophores in a single well.
18. Should have mode for Melt curve analysis.
19. Should have a dedicated channel for **performing protein unfolding analysis**.
20. Should be licensed for Research.
21. System should be compliant with the MIQE Guidelines.
22. Consumables including all plastic wares (two dozen 96 well plates) + some dyes for successful demonstration of thermal shift assays.
23. System should come with dedicated software for data analysis.
24. Compatibility to perform high resolution melt curve analysis.
25. Compatibility with Indian power supply/wiring.
26. RT-PCR should have a USB port for export of data.
27. RT-PCR should come with compatible computer for data analysis and storage, 3 KVA Online UPS with 60 min backup and a laserjet printer.

ANNEXURE 1

Desirable

Envelope A: Technical Quote: The following details are to be enclosed (Minimum 4)

1. Software for performing high resolution melt curve analysis.

1. Technical brochure/containing all details with complete address of the principals.
2. A compliance sheet based on the specifications as per the SIQ.
3. Any optional in, systems / accessories / details to be included.
4. Installation requirements including power and utilities (UPS).
5. Use and address of organizations where the equipment will be used in India. (Prof. M. N. Gupta, PI)
6. Details of other equipment needed to run the equipment (Department / Hospital to which the equipment was imported, how long the equipment is being managed by your organization).
7. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support would be provided.
8. If quote is for imported equipment sourced through Indian Agent, Self Agency or ship certificate on the letterhead of the principal or importer, it should be from an Indian Agent.
9. Property / Item Certificate from the principals, if applicable.

Envelope B: Financial Quote: The following details are to be enclosed (Minimum 4)

1. The quotation for the equipment in foreign exchange, if it is to be imported. The cost of spares and optional equipment to be quoted separately. The cost should be based on FOB (Free Deliv). If equipment is to be imported the quote should be in DDP and all taxes applicable should be mentioned clearly.
2. In case of payment after delivery and successful operation, if 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 bill of lading should be issued.
3. Standard warranty details should be provided and in this case the minimum comprehensive warranty should be at least 1 year. Also please indicate the cost of additional 2 years and 3 years warranty.
4. The details of the AMC after the warranty period.
5. Cost of installation and training onsite, if needed, to be provided.
6. Validity of the quote should be 30 days.
7. The delivery period to be clearly specified.

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 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 to be quoted separately. The cost should be based on FOB, 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. Standard warranty details should be provided and in this case the minimum comprehensive warranty should be at least 1 year. Also please indicate the costs of additional 2 years and 3 years warranty.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if needed, to be provided.
6. Validity of the quote should be 90 days.
7. The delivery period to be clearly specified.

Terms and Conditions

1. Minimum comprehensive warranty of 1 year. Also please indicate the costs of additional 2 years and 3 years warranty.
2. Mode of payment: **By irrevocable Letter of Credit**
3. All bank charges outside India on beneficiary's account and within India shall be on opener's account.
4. In case of items where the foreign vendor refuses to bear bank charges arising in foreign country and the item is critically required, the Competent Authority can sanction such charges on the basis of purchase committees recommendations. Hence, all the cases for sanctioning of foreign bank charges be referred to for approval by competent authority.
5. Payment of foreign bank charges of the vendors by the buyer in the foreign country is however against international norms and all efforts must be made by all concerned to ensure that such bank charges are borne by the seller.
6. Price should be FOB New Delhi. However CIF costs may also be quoted for better comparison of freight.
7. Validity of quotation should be for 90 days.
8. Delivery period should be clearly mentioned.
9. If an agent submits bid on behalf of Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
10. Payment to be released after satisfactory installation.
11. If quote is for imported equipment. Sole Agency-ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.
12. Proprietary Item Certificate from the principals, if applicable.
13. IIT Delhi is exempted from paying custom duty under notification No. 51/96 (partially or fully) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, no certificate will be issued to third party:
 - a. Shipping details i.e. master Airway Bill No. and House Airway No.. (if exists)
 - b. Forwarder details i.e. Name, Contact No. etc.
14. IIT Delhi is exempted from paying excise duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.
 - Quotation with details of Basic Price, Rate and amount on which ED is applicable

NOTE: The Institute reserves the right to accept/reject all (or) any quotations without assigning any reason thereof.

