



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND  
RESEARCH THIRUVANANTHAPURAM (IISERTVM)  
(Govt. of India, Ministry of H.R.D)**

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THIRUVANANTHAPURAM 695016,  
KERALA, INDIA.

Date: 14<sup>th</sup> August 2015

**INVITATION TO TENDER(IND)**

**No: IISER/PUR/6099/15  
Due Date: 01<sup>st</sup> September 2015 [4PM]  
Date of Opening: 02<sup>nd</sup> September 2015 [3PM]**

Dear Sirs,

Sub: **Supply of Real-time PCR Machine.**

We invite Sealed Tenders for the following items:

Sl No:	Item/ Description	Qty
1.	Real-Time PCR Machine (Specifications as per Annexure I]	1 No

Please quote your lowest rate and shortest delivery period as per the following terms. Your offer in sealed cover **SUPERSCRIBING TENDER NUMBER AND DUE DATE** shall reach us on or before the due date and time. Please follow "Instruction to Tenderers" attached.

- EMD** : **Rs. 30,000/-in the form of DD or B.G. to be submitted along with the quote. Quote received without EMD will be summarily rejected.**
- Payment** : Within 30 days after supply and installation/Net 30 days /LC.  
**No advance payment will be made by IISERTVM.**
- Delivery** : To be delivered at our stores (Free delivery). If import, mention Ex-works/FCA/CIP terms with clear breakup charges.
- Taxes & Duties** : Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and Excise duty under 10/97 notifications.
- Discount** : Indicate, if any.
- Delivery Schedule** : Required Immediately. Indicate your schedule
- Validity of quote** : 60 days

Thanking You,

Yours Faithfully

  
**(K. BHASKARA RAO)  
Deputy Registrar  
[Purchase & Stores]**

**P.S. CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT QUOTED SHALL ACCOMPANY THE OFFER.**

**Specifications for a Real-time PCR machine:**

A real-time PCR system to perform Gene expression studies is needed in School of Biology, IISER-TVM. The system should be compatible with the various dye-chemistries currently available in the market, and should be able to discriminate multiple targets in the same reaction well.

Sample capacity: 96 wells  
Sample size: 5-50  $\mu$ l

**Temperature control**

Maximum ramp rate: 4-5°C/sec or better  
Thermal cycling method: Peltier based  
Temperature Range: 0-100°C  
Accuracy:  $\pm 0.2^\circ\text{C}$  or better  
Uniformity:  $\pm 0.4^\circ\text{C}$  well to well, or better

**Optics**

Excitation: 5-6 filtered LEDs/Halogen source  
Detection: 5-6 filtered photodiodes./CCD  
Range of wavelengths: 450-700nm

Sensitivity: Should be capable of detecting as low as 1 copy of target sequence from genomic DNA samples

Dye compatibility: Should be compatible with multiple dyes currently available in the market, but not restricted to: FAM, HEX, SyberGreen, Texas Red, Cy5 etc

Should have the ability to discriminate up to 5 targets (with specific dyes) in one reaction well

Dynamic range: 9 - 10 orders of magnitude or better

**Scan Time**

All channels: should not be more than 10 - 12 secs  
Single channel: should not be more than 2 - 3 secs

**Software and Computer**


The software should be user friendly which allows the user to perform melt curve analysis, quantitative analysis with plotting standard curve and relative quantification with reference genes. The data should be easily transferred as raw or after analysis in various formats (which includes spreadsheets). There should be an easy way to monitor the progress of the reaction without disturbing the run. The program should be compatible with multiple real time PCR based chemistries. The software should allow both analysis and viewing of the final processed data. There should be options for saving the settings for various runs for multiple users.

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A suitable computer loaded with necessary software and LCD monitor should be provided with the system. The computer should have USB ports (and CD/DVD drives).

**Installation and service**

1. Bidder should provide 3 years of warranty inclusive in the offer, which should include annual maintenance, necessary calibrations whenever required etc. The terms of the warranty must be clearly mentioned.
2. Bidder should clearly specify the terms of after sales service, laboratory training to researchers etc. They should also give a rough estimate of the annual maintenance charge, which the user would incur after the warranty period.
3. Bidder should provide all the pre-installation requirements and make sure that all the materials required for the various assays (plates etc.) will be available when needed.
4. Bidder should have at least 10 installations in India with proven track record of maintenance and application support.
5. Bidder should dismantle and reinstall the whole system from our present transit campus to IISER permanent campus at Vithura free of cost.
6. Three years AMC, post-warranty period should be provided.

  
**(K. BHASKARA RAO)**  
**Deputy Registrar**  
**[Purchase & Stores]**

# **IISER-TVM**


## **INSTRUCTION TO TENDERERS [IMPORTS]:**

1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
2. **AGENT & AGENCY COMMISSION:** In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. In case Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
3. **LEAFLET/CATALOGUE:** Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
4. **MODE OF DESPATCH:** Tenderer shall indicate the mode of dispatch (i.e., Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
5. **COUNTRY OF ORIGIN:** Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
6. **INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
7. **DELIVERY/SHIPMENT:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to in case of placing order on the Tenderer.
8. **MODE AND TERMS OF PAYMENT:** Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT or WIRE TRANSFER against shipping documents. **OURS BEING A GOVT OF INDIA EDUCATIONAL INSTITUTE WE ARE UNABLE TO MAKE ANY ADVANCE PAYMENT**
9. **WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
10. **GENERAL:** The Tenderer shall also be complied with the following:
  - a. Mention your Banker's name and address.
  - b. Show approximate net and gross weight and dimensions of packages/cases.
  - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
  - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
  - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
  - f. The offer is valid for a minimum period of 90 days from the due date of opening of the tender.
  - g. Samples, if called for, will be sent free of all charges.
  - h. Late tenders and Delayed will not be considered.
  - i. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
  - j. The authority of person signing the tender, if called for, shall be produced.
  - k. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assessing any reason.

  
DEPUTY REGISTRAR  
[PURCHASE & STORES]

**IISERTVM**  
**INSTRUCTIONS TO TENDERERS [INDIGENOUS].**

1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
2. Late tender and Delayed Tenders will not be considered under any circumstances.
3. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
4. (a). Your quotation should be valid for a minimum period of 60 days from the date of opening of the Tender. Quotation with firm prices will be preferred.  
(b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
5. (a) **Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.**  
(b) **Our payment terms are within 30 days of receipt and acceptance of the item at our site.**
6. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.  
(b) Samples, if called for, should be submitted free of all charges by the tenderer and the IISER shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to take back the samples at his own expense.  
(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.  
(d) **Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
7. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
8. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
9. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
10. The authority of the person signing the tender, if called for, should be produced.
11. The purchaser reserve the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
12. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty under Notification No. 10/97 and Customs Duty under Notification No. 51/96- Customs dated 23<sup>rd</sup> July 2009. Also, we can issue Form 16 as per VAT Rules.
13. The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning.
14. Earnest Money Deposit/ Bid Security should be submitted alongwith your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days

  
**DEPUTY REGISTRAR**  
**[PURCHASE & STORES]**