

**Department of Chemical Engineering
Indian Institute of Technology
Hauz Khas, New Delhi-110 016**

NOTICE INVITING QUOTATIONS

Dated: 13 AUGUST, 2014

NIQ Ref. No: IITD/CHEM/2014-2015/AUG/MKR/1

Subject: **PCR Machine**

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply, installation & integration of PCR Machine** with three years on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document.

The quotation should reach to Department of Chemical Engineering IIT Delhi, Hauz Khas, New Delhi – 110016 latest by 5:00 P.M. on August 29, 2014.

TECHNICAL SPECIFICATION:

Sl. No.	Technical Specifications
1.	Gradient Thermal Cycler with Peltier heating and cooling based system.
2.	Sample Capacity: should have block for 96 x 0.2ml tubes
3.	Should be flexible to accommodate interchangeable reaction modules including for Real time PCR detection optical module, 48/48 well gradient dual block (independently controlled), 384 well block and 96 well gradient block.
4.	With the option of 48-dual block should, both the blocks should have gradient capability and the user should be independently able to control each block.
5.	Should have a maximum ramp rate of 4° C/second and average ramp rate of 3.3° C/sec

6.	Should have adjustable heated lid
7.	Should have block and calculated temperature control modes.
8.	Should have protocol auto writer for easier programming to run a standard, fast or ultrafast protocol.
9.	Should have a temperature range of 0-100° C and temperature accuracy of $\pm 0.2^\circ$ C
10.	Should have a temperature uniformity of $\pm 0.4^\circ$ C well to well within 10 seconds of arrival at 90 °C and have 6 Thermoelectric modules.
11.	Should have a gradient range of 30-100° C and use dynamic ramping for gradient (temperature differential range 1- 24 C)
12.	Should have a high resolution color display and have 6 USB ports
13.	Should have a memory of >1000 programs with further expansion through a USB Flash drive for transfer of files.
14.	Option to protect files with optional log-in, restricted user privileges and secured mode for controlled environment should be there.
15.	Should have automatic option for graphical or text based programming
16.	The Option of using the instrument through a PC should be there
17.	It should be possible to control additional 3 cyclers through one instrument.
18.	Should have O-ring seal to protect thermal electric modules.
19.	Should be quoted along with the necessary consumables.
20.	Should be licensed for Research & IVD applications.

Desirable:

1.	Should have an intuitive large colored touch screen to easily edit and run protocols
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TERMS and CONDITIONS:

1. The quotation, in sealed envelope marked as “Quotation **PCR Machine**” should reach the following address.

**Dr. Manojkumar Ramteke,
Department of Chemical Engineering,
Block II,
IIT Delhi, Hauz Khas,
New Delhi-110 016
India**

The above sealed envelope must contain two separate envelopes: one marked as ‘Technical Bid’ and the second marked as ‘Financial Bid’.

2. The delivery period should be clearly indicated in the quotation.
3. Submitted quotations should clearly mention the validity period, preferably for a minimum of 3 months.
4. Guaranty or warranty period should be specified.
5. The mode of payment should be clearly indicated.
6. All other general terms of delivery should be specified with quotation.
7. Payment will be done under EFT (Electronic Fund Transfer) / RTGS (Real Time Gross Settlement) scheme.
8. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating “certified that “-----” is a proprietary item of “---- -----” and no other manufacturer make these items”.

Dr. Manojkumar Ramteke,
Department of Chemical Engineering,
IIT Delhi