

**Indian Institute of Technology Delhi**  
Department of Physics, Hauz Khas, New Delhi-110016 (India)

**NOTICE INVITING QUOTATION**

**Date: 11-09-2012**

<b>Due date: 27-09-2012</b>
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**NIQ Ref. No.: IITD/NRF/2012-13/Temp-Cont**

**Two PID Temperature Controllers** for measuring and controlling the temperatures in the range of at least **10 K to 1000 K**.

**TECHNICAL SPECIFICATIONS** for Temperature Controllers:

1. Temperature range	≤10 K to 1000 K
2. Supported sensors	Silicon diode, Platinum RTD, Thermocouple or other standard cryogenic sensors
3. Calibration curves	Built-in curves for industry standard sensors plus four user curves
4. Input channels	Two
5. Heater power	≥ 50 W
6. Control mode	PID table, Ramp or Manual
7. Temperature resolution	10 mK or better
8. Temperature stability	100 mK or better
9. Interface	GPIB/ USB
10. Over Temperature Disconnect	Heater may be relay disconnected from user equipment when a specified.
11. Power requirement	220V/50 Hz AC
12. Display	Front panel LCD display with touchpad keys
13. Accessories	The required cables/connectors to connect the temperature controller to the standard commercial cryostats must be provided.

## **TERMS and CONDITIONS:**

1. The quotation, in sealed envelope marked as “Ref: **IITD/NRF/2012-13/Temp-Cont**” should reach the undersigned on or before **5 pm on 27-09-2012**.
2. The prices quoted should be **FOB** (Freight On Board) basis.
3. Technical and financial bids should be enclosed in separate sealed envelopes and clearly marked.
4. A technical compliance chart for the item quoted for could be provided in the technical bid.
5. Institute reserves the right to accept/ reject all/ any quotation without assigning any reason thereof.
6. The delivery period should be clearly indicated in the quotation.
7. Submitted quotations should clearly mention the validity period, preferably for a minimum of **3 months**.
8. Incomplete and conditional submitted tenders would be summarily rejected.
9. The mode of payment should be clearly indicated. The preferred mode of payment is through irrevocable LC.
10. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.
11. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the AUTHORISED SALES AGENCYSHIP certificate from the PRINCIPALS should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.
12. The quotation should include comprehensive **warranty for at least 1 year**.
13. Special discount/rebate wherever admissible keeping in view that items are being procured for educational purpose in respect of Public Institution of national importance may please be indicated.

**Dr. Rajendra Singh**

**Nanoscale Research Facility**

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