



भारतीय प्रौद्योगिकी संस्थान कानपुर  
INDIAN INSTITUTE OF TECHNOLOGY KANPUR

भौतिकी विभाग  
DEPARTMENT OF PHYSICS

पत्रालय - आई.आई.टी. कानपुर - 208 016 (भारत)  
P.O. : I. I. T., Kanpur - 208 016 (INDIA)

ENQ No.: PHY/AKG/2013-14/02

August 27, 2013

**Enquiry letter for cryogenic temperature controller**

Sealed quotations are invited for a brand new temperature controller for cryogenic temperatures. The following are the required specifications:

- 1) Two independent temperature sensor inputs with automatic reversal of sensor current to eliminate thermal emf errors.
- 2) At least one PID loop with one heater (more than 50W) output
- 3) Capable of reading down to 300mK temperatures with appropriate sensor.
- 4) Should be able to handle standard diode, RTD, thermocouple and pre-calibrated resistance thermometers as sensors with calibration stored in the instrument memory.
- 5) USB and IEEE488 interfaces
- 6) Analog output voltages for alarms and relays
- 7) Should display temperatures and other parameters (heater power, PID, etc.) as configured by users

In addition:

- 1) All equipments and accessories must work with single phase power supply of 220V & 50Hz  $\pm 2\%$ .
- 2) Essential accessories (connectors, cables, etc.) required for the system should be mentioned and separately quoted.

Since we are an academic institution, your offer must consider institutional discount. Please send your best offer to the undersigned **latest by Sept 7th , 2013**. The quote should be valid for at least 60 days. The delivery period and the terms and conditions should be clearly mentioned. The equipment should have at least one year warranty.

**Dr. Anjan K Gupta**  
Physics Department  
IIT Kanpur