

NOTICE INVITING QUOTATION

Date: 02-11-2011

Due date: 17-11-2011

NIQ Ref. No.: IITD/PHY/2011-12/VT-Hall-System

Technical specifications:

The **Variable temperature Hall set up** should possess the following technical specifications:

- 1. Sample size:** 5 mm x 5mm up to 15mm x 15mm or higher
- 2. Sample thickness:** 100 μm to 1000 μm
- 3. Resistivity:** 10^{-4} to $10^5 \Omega\text{-cm}$ or higher
- 4. Mobility:** 1 to $10^6 \text{ cm}^2/\text{V-s}$ or higher
- 5. Carrier concentration:** 10^7 to 10^{20} cm^{-3} or higher
- 6. Temperature range of operation:** 80 K to 300 K or higher
- 7. Temperature accuracy:** $\pm 1^\circ\text{C}$ or better.
- 8. Magnet:** Should be able to provide magnetic field of 0.50 Tesla or higher. It could be a permanent magnet or an electromagnet.
- 9. Current Source Range:** 1 nA to 10 mA or higher with Compliance of 10 volts or higher.
- 10. Minimum Hall Voltage:** 5 μV or lower
- 11. Software:** Suitable control software based on Windows operating system to control the temperature of the samples from 80 K to 300 K and perform the automated Hall and resistivity measurements over the entire temperature range.
- 12. GPIB or USB interface** should be provided for system control and data acquisition.
- 13. Mains power:** 220 V/50 Hz
- 14. Optional:** A PC or laptop suitable for loading the control software should be quoted optionally. Other optional accessories may also be quoted.

TERMS and CONDITIONS:

1. The quotation, in sealed envelop marked as “Ref: **IITD/PHY/2010-11/VT-Hall-System**” should reach the undersigned on or before **5 pm on 17-11-2011**.

2. **The price quoted should be on F.O.B. basis.**
3. Technical and financial bids should be enclosed in separate sealed envelopes and clearly marked.
4. Institute reserves the right to accept/ reject all/ any quotation without assigning any reason thereof.
5. The delivery period should be clearly indicated in the quotation.
6. Submitted quotations should clearly mention the validity period, preferably for a minimum of **3 months**.
7. Incomplete and conditional submitted tenders would be summarily rejected.
8. The mode of payment should be clearly indicated. The preferred mode of payment is through irrevocable LC.
9. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.
10. 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.
11. The quotation should include comprehensive **warranty for at least 1 year**.
12. 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.
13. Vendors should attach the relevant brochure/leaflet for the models/options quoted.
14. The vendor should provide the list of users in India of the model for which they have quoted.

Dr. Rajendra Singh
Department of Physics
IIT Delhi, Hauz Khas,
New Delhi - 110016

Office no.: MS520
Ph.: 011-26596495