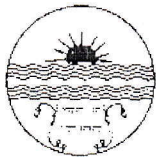


**DEPARTMENT OF PHYSICS**  
**Centre of Advanced Study in Physics**  
**PANJAB UNIVERSITY, CHANDIGARH- 160 014 (INDIA)**  
(Established under the Panjab University Act VII of 1947-enacted by the Govt. of India)

Tel. : + 91-172-2541741, 2534446, 2534466  
Fax : +91-172-2783336  
E-mail : physics@pu.ac.in



*AK*

PHS : 4245-4248

Dated 6/12/16

**Notice Inviting Quotations**

M/S .....

**LIST ATTACHED**

Speed Post

Please quote **Technical and Financial bid (in two separate envelopes)** for the supply of following items to the Department of Physics, Panjab University, Chandigarh as per specifications:-

Sr. No.	Specifications	Qty.
1.	Determination of Planck's Constant and precise measurement of Band-Gap from the LED.	01
2.	Digital Gaussmeter for measuring magnetic field over Wide Range (1G to 20KG) using interchangeable Hall probes	01
3.	Four Probe Set-Up to measure Resistivity of Semiconductor at different temperatures and determination of the band-gap.	01
4.	PID Controller PID-action study using CRO.	01
5.	Travelling Microscope with drum type movement scales both vertical & horizontal with least count 0.001 cm.	5 Set
6.	Second order RLC networking using OPAMPS	01
7.	Light intensity control using PI Control.	01
8.	Magnetic levitation system.	01
9.	Temperature transducer study with temperature controlled oven upto 150 with digital display.	01
10.	Dependence of hall coefficient on temperature: The set-up consists of following units:- (I) Hall Effect Setup (II) Hall Probe (Ge:p type) with a small oven and a Thermocouple (iii) Hall Probe Stand (iv) Electromagnet (v) Constant Current Power Supply (vi) Digital Gaussmeter. complete in all respect.	01 each
11.	Hall Effect Experiment, The apparatus consists of : a) (I) Hall Probe ( Ge Crystal-n type), (II) Hall Probe (Ge Crystal-p type) (b) Multipurpose Stand, (c) Hall Effect Set-up (d) Electromagnet (e) Constant Current Power Supply. Complete in all respect.	01 each

The quotations must reach in a sealed cover by **23.12.2016 at 5.00 p.m.** along with your other terms and conditions of supply, if any.

**LAST DATE OF RECEIPT OF QUOTATIONS 23.12.2016 AT 5.00 P.M.**

**OPENING OF QUOTATIONS: 26.12.2016 AT 3.30 P.M.**

**Note:-** The quotation must reach by Hand or Registered Post or Speed Post on or before **23.12.2016 at 5.00 p.m.** on the following address.

**The Chairperson,**  
**Department of Physics,**  
**Panjab University, Chandigarh.**


1. **MOST IMPORTANT:** The Bidders are requested to attach the EMD Demand Draft only tot value of 2% of the quotation/proforma Invoice in the name of 'Chairperson, Deptt. of Physics P.U., Chandigarh', without EMD Draft quotation/proforma invoice will not be entertained.
2. Please quote Technical and Financial bid (in two separate envelopes) with EMD.
3. Panjab University, does not take any responsibility for any postal delay in delivery b Registered/Speed Post or lost in transit of quotation.
4. We have been exempted from paying Central Excise Duty vide Govt. of India notification No 10/97-Central Excise dated March, 1997 and is valid upto 31.8.2020.
5. Conditional and unsigned quotation will not be accepted.
6. The supply be commenced/made within 15 days of the issue of supply order.
7. All quoted rates should be FOR Panjab University and firm should quote the rate of all taxes.
8. No payment will be made on the Performa invoice.
9. The quotation shall not contain corrections, erasers and overwritten.
10. The undersigned reserves right to accept or reject any quotation without assigning any reason.
11. Special Discount for educational institutions, University teaching department may be mentioned.
12. Quotations will be opened on **26.12.2016 at 03.30 p.m.** and you may depute your representative at the time of opening of quotations.
13. The quotation (Technical & Financial bid with EMD) in a sealed envelope giving our/ your reference No./ Date of quotation should be sent after affixing the required postage stamps. The quotation may sent by POST (as far as possible)/BY HAND.

**J. Technical Specifications:**

Sr. No.	Specifications	Qty.
1.	Determination of Planck's Constant and precise measurement of Band-Gap from the LED.	01
2.	Digital Gaussmeter for measuring magnetic field over Wide Range (1G to 20KG) using interchangeable Hall probes	01
3.	Four Probe Set-Up to measure Resistivity of Semiconductor at different temperatures and determination of the band-gap.	01
4.	PID Controller PID-action.study using CRO.	01
5.	Travelling Microscope with drum type movement scales both vertical & horizontal with least count 0.001 cm.	5 Set
6.	Second order RLC networking using OPAMPS	01
7.	Light intensity control using PI Control.	01
8.	Magnetic levitation system.	01
9.	Temperature transducer study with temperature controlled oven upto 150 with digital display.	01
10.	Dependence of hall coefficient on temperature: The set-up consists of following units:- (I)Hall Effect Setup (II) Hall Probe (Ge:p type) with a small oven and a Thermocouple (iii) Hall Probe Stand (iv) Electromagnet (v) Constant Current Power Supply (vi) Digital Gaussmeter. complete in all respect.	01 each
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Thanking you,

Yours faithfully,

  
Chairperson  
**Chairperson**  
**Deptt. of Physics**  
**P.U., Chandigarh**