

# Indian Institute of Technology Kanpur

Department of Physics

February 3, 2012

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ENQ No. PHY/KPR/2011-12/02

Date: February 03, 2012  
Due Date: February 13, 2012

Subject: Inviting quotations for supply of USB-DAQ devices

Quotations are invited from all over the globe for the supply of 20 (twenty) **USB-DAQ devices** with the following specifications:

1. Interface: USB Full/High speed
2. Features needed: Analog Inputs, Analog Outputs, Digital Inputs, Digital Outputs, Counters and Timers
3. Analog Inputs Specifications:
  - (a) Resolution: 16 bit or more
  - (b) Number of Channels: 6 differential or more
  - (c) Input ranges : At least  $\pm 10V$  and  $\pm 1V$
  - (d) Input Impedance: Minimum 1 G $\Omega$
  - (e) Speed:
    - i. Minimum 50,000 samples/second in streaming mode.
    - ii. Minimum 250 samples/second in software triggered mode.
4. Analog Outputs:
  - (a) Resolution: 12 bit or more
  - (b) Number of Channels: 2 or more
  - (c) Minimum update rate: 250 /second.
  - (d) Output Impedance: Maximum 50 $\Omega$
5. Digital Input Channels: Minimum 8.
6. Digital Outputs:
  - (a) Minimum number of Channels: 8.
  - (b) Minimum update rate: 250 /second.
7. Counters:
  - (a) Minimum number of Channels: 2.
  - (b) Number of bits: 32
8. Timers: Minimum number of Channels: 2.

9. OS driver support: Windows, Linux
10. Language Support: C++, Python, LabVIEW
11. Power: Bus powered

Instructions & Information:

- The last date for receiving the quotations is 13 Feb 2012.
- The Quotation should be addressed to the undersigned giving on the envelop Reference No. with date and due date.
- The supplier should have a global presence with a website showing catalogue of similar laboratory equipment.
- The quantity mentioned in this inquiry is only approximate and will not be binding on the Institute.
- Educational discount, if any applicable, should be clearly mentioned.
- Volume discount, if any applicable, should be clearly mentioned.
- The firms may also quote for optional accessories which will extend the capability or ease of use of the equipment.
- The rates quoted should be ExWorks/FOB in case of firms situated outside India and for delivery at the Institute premises in case of firms in India.
- Current rate of sales Tax/VAT must be mentioned.
- The Institute is exempted from excise duty and we pay only a nominal customs duty of about 5% under Govt. of India notification 51/96.
- Sales Tax: This Institute is not exempted from the payment of Sales Tax/Service Tax/VAT. The rates should be clearly indicated if chargeable.
- The delivery period should be specifically stated.
- The terms of Warranty should be clearly mentioned.
- In case of firms situated outside India, the agency commission, if any, payable to the Indian agent should be indicated.
- The firms are requested to give detailed description and specifications together with detailed drawings, printed leaflets and literature of the Article quoted.
- The name of the manufactures and country of manufacture should be clearly stated. In the absence of these particulars the quotation is liable to be rejected.
- Quotation should have minimum validity of 60 Days from the date of opening.
- Delayed quotations will not be accepted.

Thank you,

K P Rajeev

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