

INDIAN INSTITUTE OF TECHNOLOGY KANPUR**IIT Post office, Kanpur 208016, U.P****Dr. Anjan Kumar Gupta****Date: 27/08/2013****Department of Physics****I.I.T. Kanpur****Kanpur 208016, U.P.**e-mail: anjankg@iitk.ac.in

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Enquiry no.: PHY/MODERN PHYSICS LAB/2013-14/EQP/3**Enquiry date: 27.08.2013****Closing date: 10.09.2013****Sealed quotations should reach the undersigned latest by 4.00 pm on 10th September, 2013****for the following items:**

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|--------------------------------|----------------|
| 1. Digital Oscilloscope | 03 Nos. |
| 2. Digital Multimeters | 05 Nos. |
| 3. DC Power Supplies | 04 Nos. |

Technical Specification:

- 1. Digital Oscilloscope:** Frequency Bandwidth ≥ 50 MHz, Two Input Channels, Real Time Sampling Rate ≥ 1 GS/s, Large TFT/LCD color Display, Selectable ≥ 20 MHz bandwidth limit, Record length ≥ 1 M point for each channel, Autoset Menu, Probe Check Wizard, Cursors with readouts, Trigger frequency readout, Automatic measurements ≥ 20 , Waveform averaging and peak detection, Dual time base, Fast Fourier Transform (FFT) Features, Pulse Width trigger capability, Video trigger capability with line-selectable triggering, External trigger, Setup and waveform storage, Variable persistence display, USB host and device Interface.
- 2. Digital Multimeters:**
 - Accuracy: $\geq 0.1\%$
 - Automatic Blocking System (ABS)
 - Protective Rubber Holster for rough duty
 - Analog scale (Bar Graph)
 - Auto Ranging/ Manual Mode

- DC Voltage measurement: few mV to 1000V
- AC Voltage measurement: up to 1000V TRMS measurement
- DC Current measurement: mA to 10A
- AC current measurement: mA to 10A
- Resistance measurement: up to 25.00MW
- Diode continuity, % Duty Cycle
- Capacitance measurement: nF to 30.00mF
- Frequency measurement: Hz to 100.0 kHz
- Temperature measurement

3. DC Power Supplies (Dual):

- Voltage Range: $\geq 50V$
- Current Range: $\geq 5A$
- Two Digital Panel Displays for the two voltages and currents
- Resolution: 0.01%
- Constant Current and Constant Voltage Operation
- High efficiency and power density
- Overload and Reverse Polarity Protection

Terms and conditions:

- Quotations should have a validity of a minimum of 60 days.
- All the equipment should be provided with a replacement warranty of 1 year against manufacturing defects.
- Maximum possible educational discount should be specified on the quotation since all are for teaching purposes.
- Quotations are required in a sealed envelope with enquiry number mentioned on the envelope.
- The delivery period should be within 60 days of placing the purchase order.
- The rate offered should be F.O.R Kanpur for firms located outside Kanpur and free delivery at the Institute premises for local firms.
- Institute is exempted from payment of E. Duty under notification no.10/97
- Institute is entitled to avail concession rate of sales tax as admissible under Sub-sec 5 of Sec 8 C.S.T Act 1956 applicable to Educational/Research institution in inter-state purchase.