

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
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Enquiry no.: PHY/MSC LAB/2013-14/EQP/7

Enquiry date: 30.08.2013

Closing date: 12.09.2013

Sealed quotations should reach the undersigned latest by 4.00 pm on **12th September, 2013** for the following items:

S.N	Items	Qty.	Remarks
1	Digital storage Oscilloscope	02	150MHz band width (3dB)<2.5ns (approx.),sensitivity-2mV/div-10V/div., 2 input channels, 1GSa/sec Real time and 25 GSa/s Equivalent sampling rate, 2Mega points memory depth,2mV -10 V vertical scale and 1ns-50 sec horizontal range, upto 27 auto measurementsVersatile maths functions +, -, x, FFT, FFT _{rms} colour TFT LCD display, USB host and device port, go/NoGo function, Data logger, cursor measurement facility
2	Oscilloscope	12	30MHz band width, 1mV/div vertical sensitivityInternal 5 digit real time frequency counter LCD readout display for vertical/ Horizontal/frequency measurements, auto time base setting, Buzzer alarm, TV (TV-V, TV-H) Trigger modes, X-Y mode, Z-axis input and external trigger input
3	6½digital multimeter with test leads, USB cable, Calibration key.	03	6½ digit display:1,200,000 counts.Bright vacuum fluorescent display, DCV accuracy-0.0035%, Dual measurements simultaneously, 11 measurement function and 10 math function. Resolution upto 100pA with DCI and 1nA with ACI measurements. Temperature measurements from -200°C to +2000°C (RTD and Thermocouple both). Data transfer through USB, RS232, Digital I/O standard interface. Display range: DCV=100mV-1000V(with resolution0.1µV at100mV) Resistance=100Ω-100MΩ (with resolution 100µΩ at 100Ω); DCI=100µA-10A(with resolution 100pA at 100µA); ACV,ACI measurements
4	LCR meter with RS 232 cable and test leads	02	Test frequency 10 Hz – 100kHz (500 steps), Measurement accuracy 0.05-0.1 %, 100 sets memory for save/ recall of setting, R/Q, C/D, C/R, L/Q Test modes; RS 232 interface, Display range: Resistance=0.00001Ω~99999kΩ; Caoacitance=0.00001pF~99999µF; Inductance=0.00001mH~99999H; Quality Factor=0.0001~9999; Dissipation factor=0.0001~9999; Display Test condition and test result simultaneously.
5	DC Power supply (0-60V/0-6A)	06	Dual Measurement display; 0.01 resolution,Constant current and constant voltage operation, High power density, over load protection
6	DC Power supply (0-60V/0-3A)	04	Dual Measurement display; 0.01 resolution,Constant current and constant voltage operation, High power density, over load 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.
- All the parts should be replaced free of cost in case of any damage in transit / deviation from specifications.

- Maximum possible educational discount should be specified on the quotation since all are for teaching purposes.
- Quantity of items may vary (increase/decrease) in order.
- 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.