

**REGISTERED**

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**Subject: Notice Inviting Quotation for Purchase of Equipments**

This institute intends to purchase of Equipments as detailed given below. Interested firm/parties are requested to send the quotation to the office of undersigned in a sealed cover super scribed “**Quotation for Equipments**” on or before **31.03.2014**.

Sr. No.	Description	Qty.	Specifications
1.	Four Probe Set Up for measurement of Resistivity of Semiconductor at different temperatures and determination of the band-gap	02	As per Annexure-‘A’ attached
2.	Hall Effect Experiment for Semiconductors:	02	-do-
3.	Measurement of magneto-resistance of semiconductor :	01	-do-
4.	Magnetic Loop Hysteresis Tracer:	02	-do-
5.	Measurement of Dielectric Constant: Complete set up along with samples	02	-do-

**Note:** It may be noted that quotation received only through REGISTERED/SPEED post shall be considered. The institute is located in remote area and it takes 5 to 7 days to reach the mail, therefore, quotation be dispatched well in time considering this factor.

**N.B.:**

1. Rate of ST/VAT if extra must be mentioned clearly.
2. Price quoted must be FOR SLIET.
3. Quotation received later than due date are liable to be ignored/rejected.
4. Other terms and condition for submitting the quotation are given on overleaf which must be read carefully before submitting the quotation.
5. We are not responsible for accidental opening of the cover if it is not properly super scribed and sealed.
6. Quotation must be submitted on letter head of the firm with all particular, any other format will not be acceptable.

**Faculty I/c. (Purchase)**

**TERMS & CONDITIONS FOR QUOTATION**

<b>DELIVERY</b>	The rate quoted must preferably be free delivery/F.O.R. Longowal after allowing the discount, if any. Where quoted extra advalorem rate payable should clearly be indicated. Supply should be made within the specified delivery period.
<b>TERMS OF PAYMENT</b>	Our normal terms of payment is within 30 days after receipt of stores in good condition by means of cheque/draft/RTGS
<b>TAXES</b>	No sales tax concession against Form C and 'D' is admissible to this Institute. However, <b>form of</b> certificate being an educational institute can be issued if sales tax concession is admissible.
<b>EXEMPTIONS</b>	Excise and customs duties are exempted to the institute. The relevant exemption certificate will be issued to the successful bidder only if the excise duty/custom duty is exclusively mentioned in the Quotation.
<b>DIRECTOR'S RIGHTS</b>	Director, SLIET, reserves the rights of acceptance or rejection of any or all quotations. The discretion for increasing or decreasing of the quantities also rests with him. SLIET also not bind itself to accept does the lowest price. In case of any dispute, the decision of Director SLIET will be final & binding.
<b>VALIDITY OF QUOTATIONS</b>	Quotations will be considered valid for 3 months from the date of receipt.
<b>CORRESPONDENCE</b>	No correspondence regarding acceptance/rejection of a quotation will be entertained.
<b>SAMPLE/BRAND/MAKE/WEIGHT</b>	Sample where asked for, will invariably be made available and sent along with the quotations. However, Brand/Make/Weight etc. must be mentioned clearly in the quotations. Technical literature/pamphlet should also be enclosed.
<b>REJECTION</b>	Quotation not confirming to the set procedure as above will be rejected.
<b>DISCOUNT/REBATES</b>	A special discount/rebate wherever admissible keeping in view that the supplies are being made for education purpose in respect of Public Institution of national importance may please be indicated.
	Conditional, telegraphic quotation shall be rejected out rightly.
	SLIET shall not be held responsible for any postal delay in sending or late receipt of quotation.
	Quotation should be free from corrections & erasures.
	<b>Faculty I/c, Purchase</b>

S. No.	Name and specifications for equipment	Qty
1.	<p><b>Four Probe Set Up for measurement of Resistivity of Semiconductor at different temperatures and determination of the band-gap</b></p> <p><b>SPECIFICATIONS:</b> Oven Controller: Ambient to 473 K; Accuracy <math>\pm 1</math> K display (3 &amp; half digit 7 segment LED ); Multi range Digital Volt meter: <math>\times 1</math> (0-200mV) and <math>\times 10</math> (0-2V), accuracy 0.1 % or better, Constant Current Generator: 0-20 mA (Resolution 10 <math>\mu</math>A ), accuracy 0.25 % or better</p> <p>Accessories: Semiconductor materials samples 03</p>	02
2.	<p><b>Hall Effect Experiment for Semiconductors:</b></p> <p><b>SPECIFICATION:</b> Complete set Up; Hall probe (Ge Crystal, n or p type), Resistivity; 8-10 ohm cm, Hall effect set Up: Digital Millivoltmeter: range : 0-200mV (resolution 100 <math>\mu</math>V), constant Current Generator: current: 0-20 mA, Accuracy; 0.25%; <math>\pm 1</math> digit, line regulation; 0.05% for <math>\pm 10\%</math> changes,</p> <p><b>Electromagnet:</b> Pole Pieces: Magnetic field :20 KG at 6mm air gap, Energising Coils: Two of approx. 12 ohm each, Power 0-90 V dc, 3A for coils in series, 0-45 V dc, 6A, for coils in parallel</p> <p><b>Constant Current Power Supply:</b> Application: IC regulated constant current sources, Current: 0-4A (smoothly adjustable), Line Regulation: <math>\pm 0.1\%</math> for <math>\pm 10\%</math> mains changes, Load Regulation: <math>\pm 0.1\%</math> for no to full load, isplay: 3½ digit, 7 segment LED display, Protection: Protected against overload/short circuit.</p> <p><b>Gaussmeter:</b> Range 0-2KG, 0-20KG, Accuracy: <math>\pm 0.5\%</math>, Display: 3½ digit, 7 segment LED display with auto polarity and overflow indication, Transducer: Hall Probe (InAs), Special Feature: Indicates the direction of the magnetic field.</p> <p>Accessories: Semiconductor materials (p and n types) samples: 03 each</p>	02
3.	<p><b>Measurement of magneto-resistance of semiconductor :</b></p>	01

	<p><b>SPECIFICATION:</b> Complete set up : Four probe arrangement, Ge-crystal (n type), Magnetoresistance set up ; Digital Millivoltmeter: Range : 0-200mV (100mV min.), Accuracy : <math>\pm 0.1\%</math> (<math>\pm 1</math> digit)</p> <p><b>Constant Current Power Supply:</b> Current: 0-20mA (10mA min.), Accuracy: <math>\pm 0.2\%</math> of the reading <math>\pm 1</math> digit, Load regulation: 0.1% for 0 to full load, Line regulation: 0.2% for 10% variation</p> <p><b>Electromagnet :</b> Electromagnet: Pole Pieces : <math>\phi 50</math>mm diameter flat ,Field : 7.5KG, at 10mm airgap</p> <p><b>Constant Current Power Supply:</b> Application: IC regulated constant current sources, Current: 0-4A (smoothly adjustable), Line Regulation: <math>\pm 0.1\%</math> for <math>\pm 10\%</math> mains changes, Load Regulation: <math>\pm 0.1\%</math> for no to full load, isplay: <math>3\frac{1}{2}</math> digit, 7 segment LED display, Protection: Protected against overload/short circuit.</p> <p><b>Gaussmeter:</b> Range 0-2KG, 0-20KG, Accuracy: <math>\pm 0.5\%</math>, Display: <math>3\frac{1}{2}</math> digit, 7 segment LED display with auto polarity and overflow indication, Transducer: Hall Probe (InAs), Special Feature: Indicates the direction of the magnetic field</p>	
4.	<p><b>Magnetic Loop Hystersis Tracer:</b> Complete set up with Multilayered Solenoid for measurement of Coercivity, Retentivity, Saturation magnetization, Various magnetic phase identification, Hysteresis loss along with samples (wires of Nickel, and different grades of iron etc.)</p>	02
5.	<p><b>Measurement of Dielectric Constant: Complete set up along with samples</b></p> <p><b>Probe Arrangement:</b> Temperature Controlled Oven: Temperature range: 600°C, Power Supply: 100-240VAC; 50 Hz, Display Method and accuracy: Segment LED display [Processing value (PV):Red, Setting value (SV):Green] <math>\pm 0.3\%</math>, Input Sensor: Thermocouple, Control methods: PID, ON/OFF Control, P, PI, PD, PIDF, PIDS</p> <p><b>Digital capacitance Meter:</b> Range: Wide measuring range covering from 0.1pf to 20,000<math>\mu</math>F with digital display, data hold switch, input jack, Rotary switch etc.</p>	02