

**Subject: Notice Inviting Quotation for Purchase of Equipments (CAT-E)**

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 (CAT-E)**" on or before **10.01.2014**.

Sr. No.	Description	Qty.	Specifications
1.	Study of Ohms law kit	04	As per Annexure-“A”
2.	P-N junction diode characteristics kit	04	-do-
3.	Transistor characteristics kit	04	-do-
4.	Digital Multimeter	04	-do-
5.	Power Supply	01	-do-
6.	To find the height of an Accessible object using Sextant(160 mm)	02	-do-
7.	Travelling microscope	02	-do-
8.	Physical Balance	04	-do-
9.	Hooks law set up	04	-do-
10.	Newtons law of cooling	04	-do-
11.	Study of transverse nature of light	04	-do-
12.	Maxwell needle	04	-do-
13.	Dielectric constant measurement set up	02	-do-
14.	Universal B-H curve trace	02	-do-
15.	e/m ratio by helical method set up	02	-do-
16.	Van de graff generator kit	02	-do-
17.	Field lines and equipotential lines	02	-do-
18.	Demostration of dynamo AC/DC	02	-do-
19.	To demonstrate Newton second law	02	-do-
20.	To demonstrate vector addition of forces (Force Table)	02	-do-
21.	To demonstrate that sound travel in a medium (Bell experiment)	02	-do-
22.	Jigsaw cutting machine	01	-do-

23.	Pedestrial Drilling machine	01	-do-
24.	Precision thermometer	02	-do-
25.	Analytical electronic balance	01	-do-
26.	Tabletop pH meter	01	-do-
27.	Four probe method for band gap at different temperature	01	-do-
28.	Plancks constant by photoelectric effect	02	-do-
29.	Electron spin resonance spectrometer	02	-do-
30.	Determination of Planck's constant from LED	02	-do-
31.	Digital microscope	02	-do-
32.	Stefan`s constant kit	02	-do-
33.	Cooling curve kit	01	-do-
34.	Curie temperature kit for Ferroelectric material	02	-do-
35.	Curie temperature kit for Ferromagnetic material	02	-do-
36.	Boltzman Constant Kit	02	-do-
37.	Lattice dynamic Kit	02	-do-
38.	Capacitance and permittivity Kit	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.

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**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>

## NON CONSUMABLE LIST

Sr. No	Name of the Experiment	Specifications	Qty.
1.	Study of Ohms law kit	Circuit Board, Digital Multimeter, Lead Set (25cm, 50cm, 100cm), Resistor Module 1k $\Omega$ , Resistor Module 3.3k $\Omega$ , Resistor Module 4.7k $\Omega$ , Resistor Module 1k $\Omega$ , 1W, LAMP Source, Thermistor Module, LDR Module, Variable Power Supply	04
2.	P-N junction diode characteristics kit	P-N Junction Setup, Oven with temperature sensor, Junction transistor with lead, , Diode, CRO Probe	04
3.	Transistor characteristics kit	Circuit Board, Digital Multimeter, Lead Set (25cm, 50cm, 100cm), Resistor Module 1k $\Omega$ , Resistor Module 10k $\Omega$ , Resistor Module 100k $\Omega$ Variable Power Supply, JFET Module, Diode Module, Transistor Module	04
4.	Digital Multimeter	Display: 3-1/2 digits LCD, Lower power indication & Auto-Power Off , Operating temperature: 0°C~40°C	04
5.	Power supply	5V DC fixed regulated power supply with ON/ OFF switch	01
6.	To find the height of an Accessible object using Sextant(160mm)	L.C- 12"	02
7.	Travelling microscope	Horizontal travel 170mm, vertical travel 110mm, Least Count: 0.01mm, Working distance: 50mm, Eyepiece Ramsden: 8x, Reticle: 90° Cross on glass	02
8.	Physical Balance	250gm, sensitivity 2-3 mg with 3 stone knife edge agate fitted in teakwood glass case having leveling screws at its base for adjustments	04
9.	Hookes law set up	long scale with weight holder, support spring	04
10.	Newtons law of cooling	Comprising two units, each with double walled joint-less brass vessels richly nickel plated and highly polished with non-conduction cover through which is suspended a 7.5x5cm size copper calorimeter	04
11.	Study of transverse nature of light	Analyser, polariser, and platform	04
12.	Maxwell needle	Hollow and solid cylindrical weight 2 each	4
13.	Dielectric constant measurement set up	Complete setup comprising of main unit having audio oscillator, digital voltmeter, gold plated dielectric cells of different diameters, different samples.	02

14.	Universal B-H curve tracer	<p>Main Unit consisting of a variable A.C. supply (marked Va.c.), a resistor R in series with a potentiometer (P) and input terminal for the CRO.</p> <p>Unit housing the I.C. probe with associated circuitry and One magnetizing coil (No. of turns = 300 of SWG26; length of the coil = 0.0323 m).</p> <p>Samples: 5" nail, ferrite rod and transformer stampings</p>	02
15.	e/m ratio by helical method set up	<p>DC power supply for apparatus comprises of the following built in parts:</p> <p>HT (High tension) DC power supply continuously variable from 600V to 1000V 5% for acceleration voltage control, DC power supply for solenoid 0-60VDC continuously variable, potentiometers mounted on the front panel for focus control, intensity control and X,Y shift controls, two meters to measure acceleration voltage and solenoid current are mounted on the front panel, 8pin octal base is mounted on the front panel to connect the CRT plug, 1 long solenoid wound on 3.5" dia PVC pipe with 24 wire gauge mounted on wooden stand and connections brought out at terminals, CRT mounted inside the solenoid</p>	02
16.	Van de graff generator kit	Van-De-Graff Generator, Pointed wheel-a, Needle on 4mm plug-b, Perspex jar with pith ball-c, Thread brush-d, Point discharge-e, Perspex pillar-f, Nylon thread, Faraday's pail-g, Neon lamp-h, Electric Chimes-i Electric tester, Flexible Lead Pair, Plastic Stool-j	02
17.	Field lines and equipotential lines	A setup for recording the equipotential lines of electric fields. Trough, Needle, Rod with socket, Multimeter, Cylindrical base, Bar electrode, Disc electrode, Ring electrode, Stand rod, Boss head (plastic), Power supply (2-12 V AC)	02
18.	Demonstration of dynamo AC/DC	consists of a hand driven pulley attached to the pulley of dynamo by means of a rubber belt	02
19.	To demonstrate Newton second law	comprises of a metal base that mounts a spring-loaded bar and two metal spheres	02
20.	To demonstrate vector addition of forces (Force Table)	Consist of four weight hangers of 50g each and four sets of brass slotted weights. Each set consists of the masses 2 x 10g, 2 x 20g, 4 x 50g, 4 x 100g,	02
21.	To demonstrate that sound travel in a medium (Bell experiment)	consists of two hemispheres designed to fit together with an O ring seal	02
22.	Jigsaw cutting machine	1" to 4"	01
23.	Pedestrial Drilling machine	Up to 12mm	01
24.	Precision thermometer	3½ Digit LCD portable, pt- 1000sensor, range -200C to + 200C with calibration/ traceability certificate	02

25.	Analytical electronic balance	- Capacity: 150-250gm -Precision: 0.1mg -RS232 interface, LCD display, -protective cover	01
26.	Tabletop pH meter	pH: ~ -2 to 14/16 temp.: ~ -5 to 80/100C precision in pH: $\pm 0.01$ precision in temp: $\pm 0.5C$ Auto temperature compensation, interface with printer, computer	01
27.	Four probe method for band gap at different temperature	Oven Controller: Ambient To 473 K; Accuracy $\pm 1$ K display(3half digit 7 segment LED ); Multi range Digital Volt meter: X1 (0-200mV) and X10 (0-2V); Constant Current Generator: 0-20 mA (Resolution 10 $\mu$ A )	01
28.	Plancks constant by photoelectric effect	Complete set up: <b>Photo Sensitive Device</b> : Vacuum photo tube, <b>Light source</b> : Halogen tungsten lamp 12V/35W, <b>Colour Filters</b> : 635nm, 570nm, 540nm, 500nm & 460nm, <b>Accelerating Voltage</b> : Regulated Voltage Power Supply, <b>Current Detecting Unit</b> : Digital Nanoammeter It is high stability low current measuring instrument <b>Power Requirement</b> : 220V $\pm 10\%$ , 50Hz. or 110V $\pm 10\%$ , 60Hz. as required. Optical Bench: 40 cm, to adjust distance between the light source and the phototube	02
29.	Electron spin resonance spectrometer	Helmholtz coils with an attachment for the ESR unit, ESR Sample: DPPH, R,F, Oscillator (10 MHz to 19 MHz)	02
30.	Determination of Planck's constant from LED	<i>current meter with 3½ digit display Range: 0-2mA with resolution of 1mA, temperature is adjustable from ambient to 65°C and displayed on 3½ digit panel meter, voltage source with 3½ digit display</i>	02
31.	Digital microscope	Resolution: 1.M pixels, Adjustable magnification 10x -230 x; Interface: USB 2.0: Built –in-8 switches LED for illumination: Instant snapshots and time-lapse video recording; Measurement Software; measure images, angle, area etc.	02
32.	Stefan`s constant kit	Plates set up with heating arrangements, Power supply	02
33.	Cooling curve kit	A vertical furnace with Digital Temperature Indicator for temperature measurement, High Temperature Silica Crucibles (7nos.) for each sample composition, thermocouple with a Protective insulation sheath, Stirring rod, Fork, Stop Watch, Manual and Pb-Sn Samples 7 nos.in different percentage weighing each sample 100 gm	01
34.	Curie temperature kit for Ferroelectric material	Complete setup to find the curie temp. along with furnace, Digital temperature indicator, gold plated dielectric cell with ferroelectrics sample.	02
35.	Curie temperature kit for Ferromagnetic material	Complete setup to find the value of curie temp. along with furnace, Digital temperature indicator, sample (ferrite material)	02
36.	Boltzman Constant Kit	Complete kit to find the value of Boltzmann constant	02

37.	Lattice dynamic Kit	Complete set to study monoatomic and diatomic lattice with different frequencies	02
38.	Capacitance and permittivity Kit	Complete setup to find the capacitance and permittivity, parallel plates, samples and spacers	02