

**REGISTERED**

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**Sub: Short term notice inviting quotation for purchase of equipment.**

This Institute intends to purchase different equipment as per specifications notified in “**Annexure – A**”. Please send your quotation to the undersigned in a sealed cover duly super scribed on envelop %Quotation for supply of equipment for EIE dept.+ so as to reach latest by closing date i.e. 30.03.15.

**The Terms & Conditions are as under:-**

- 1) It may be noted that quotation will be sent through registered/speed post only. The institute is located in a remote area and it takes 5 to 7 days to reach the mail, therefore, quotation be dispatched well in time to avoid any sort of delay.
- 2) Rate of ST/VAT if extra must be mentioned clearly.
- 3) The other terms & conditions for submitting the quotation are given overleaf which must be read carefully before submitting the quotation.
- 4) Quotation other than those addressed will not be entertained.
- 5) The Prices quoted must be FOR SLIET, Longowal.
- 6) Quotation must be sent on the letter head of the party.
- 7) As per instructions if purpose of quotation is not super scribed and quotation is opened by mistake then it may be rejected.

F. 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 ad-valorem rate payable should clearly be indicated. Supply should be made within the specified delivery period.
<b>TERMS OF PAYMENT</b>	Our normal term of payment is within 45 days after receipt of stores in good condition by means of cheque/draft/RTGS.
<b>PERFORMANCE SECURITY</b>	In case the quoted value is Rupees one lac and above, Performance Security @5% of order value in the shape of Acct. Payee Draft, FDR or BG valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations, as per GFR-2005 rules, is also required.
<b>TAXES</b>	No sales tax concession against Form 1 and 2 is admissible to this Institute. However, Form E 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. In case the offered items are to be imported, the rates should be quoted in foreign currency on FOB basis. Basic duty as applicable under notification No. 51/96 customs dated 23.07.1996 as applicable shall be borne by the institute. If the price quoted is in foreign currency then payment shall be made through letter of credit against submission of B.G. of Min. 25% value of supply order, if the order value is more than US\$ 10,000 or through Telegraphic Transfer (TT) if the order value is less than US\$ 10,000 through Nationalized banks. The bank charges outside India should be borne by the Beneficiary. Clearance at customs will be arranged by us but you will assist our clearance agent. In case of indigenous item the price must be quoted in Indian Rupees and 100% payment will be made only after successful installation, testing and commissioning of equipment. <b>No advance payment will be made.</b>
<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 03 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. Conditional, telegraphic quotation shall be rejected out rightly.
<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.
<b>GENERAL TERMS</b>	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>Other terms &amp; Conditions will be applicable as per GFR-2005.</b>

**Faculty I/c (Purchase)**

**ANNEXURE-A****PROCUREMENT OF EQUIPMENT FOR ANALYTICAL LAB OF EIE DEPARTMENT**

<b>Sr. No.</b>	<b>Name of equipment</b>	<b>Specifications</b>	<b>Qty.</b>
1.	Portable pH Meter	Pen type, Battery operated, Digital display	01
2.	Digital PH Meter	Measurement Range:0 to 14 pH,Accuracy:±0.01 pH,Repeatability:±0.01 pH Stability: ±0.01 pH/month, Temperature Coefficient:±0.003 pH/°C Temperature Compensation:Pt100/Pt1000 RTD, Microprocessor based	01
3.	Portable Conductivity meter	Pen type, Battery operated, Digital display	01
4.	Digital Conductivity meter	Conductivity range 0 to 20,000 S/cm, Accuracy (Temperature):±0.1°C between 5°C and100°C; ±1°C between 101°C and 200°C, Stability:0.5% of reading/month Ambient Temperature Effect:±0.05% of reading/°C, Output Accuracy:±0.1 mA Microprocessor based	01
5.	Hygrometer	Response time : 1°C/min , Readability : 0.25°C temp, vapor pressure : 1mm, Range : -12°C to 48°C Digital readout, Rugged enclosure	01
6.	Psychrometer	Sling type, Wooden/plastic case, Cotton wick	01

## ELECTRICAL MACHINE LAB.

Sr. No.	Name of equipment	Qty.
1.	Cut-section Of Reluctance Motor	01
2.	Cut-section of Hysteresis motor	01
3.	Shaded pole motor with complete control panel. <b>Specifications:</b> 2-Pole, 220/230V, 2880 RPM, 15-30Watt	01
4.	Stepper motor with complete control panel. <b>Specifications:</b> Step angle-1.8, 6.5A rated, torque-240 kg-cm, No. of leads-4,	01
5.	Cut-section of stepper motor. <b>Specifications:</b> Step angle-1.8, length-165mm, 6.5A rated, torque-240 kg-cm, No. of leads-4, frame size-110	01
6.	Universal motor. <b>Specifications:</b> 120-230V AC/DC, 250W, 8610-15100 rpm, 115-289.89 mN-m	01
7.	Cut-section of Universal motor. <b>Specifications:</b> 230V AC/DC, 110V AC/DC, 250 watts, 190 RPM	01
8.	Cut-section of salient pole alternator. <b>Specifications:</b> 3 kVA, 1500 RPM, 415 AC, 4.2 A	01
9.	Cut-section of cylindrical alternator without prime mover. <b>Specifications:</b> 3 kVA, 1500 RPM, 415 AC, 4.2 A	01
10.	AC repulsion motor with complete control panel. <b>Specifications:</b> 750 Watt, 230 V, 1440 RPM	01
11.	3-phase induction motor coupled with generator with complete control panel <b>Specifications:</b> <u>AC SQUIRREL CAGE INDUCTION MOTOR:</u> 3 Phase, 10 HP, 415V, 1440 R.P.M. T.E.F.C. horizontal foot mounted, class Bq insulation. <u>D.C. Shunt GENERATOR:</u> screen protected horizontal foot mounted with Interpoles. 6 KW, Volts : 230 V. DC, RPM : 1440 Cooling : Fan cooled Regulation : Through Regulator Insulation : Class Bq Connections : All the terminals of armature and shunt field shall be brought over to a Bakelite sheet, fixed to C.I. terminal box, fitted on top of Motor	
12.	1-phase induction motor coupled with generator with digital torque meter mounted on it. <b>Specifications:</b> <u>1-phase induction motor</u> : 3HP, 1440 RPM 220V AC, 15 A. <u>Generator:</u> 1.5 KW, 1440 RPM, 220V DC , 6A	01
13.	Digital Multi-meter <b>Specifications:</b>	02

	Voltage DC:1000V $\pm$ (0.1%+1) Voltage AC:1000V $\pm$ (0.1%+1) Current DC:20A $\pm$ (0.5%+2) Current AC:20A $\pm$ (0.5%+2) Resistance : 50M $\pm$ (0.4%+1) Capacitance :9999 $\mu$ F $\pm$ (1%+2)	
14.	D.C. Shunt Motor coupled with Three phase Synchronous generator Complete with control panel. <b>Specifications:</b> 5H.P.,220V,19A,1500rpm, Excitation220V,1.5A 3KVA,415V,4.2A,1500 rpm, excitation 220V,1.4A(salient pole type)	01
15.	Three phase Induction motor (Squirrel cage) with control panel including Star Delta starter and blocking arrangement. <b>Specifications:</b> 5H.P,415V,1500rpm,8A 50Hz.	01
16.	Single phase capacitor Induction motor with mechanical loading arrangement upto 125% with control panel and starter . <b>Specifications:</b> 1.5H.P,230V,6.5A,1500rpm,50Hz	01
17.	Three phase transformer. <b>Specifications:</b> 1KVA,415V,3A, (Provisions with star and Delta connection)	02
18.	Three phase Auto transformer. <b>Specifications:</b> 415/0-470V,15A(wire wound)	02
19.	Single phase Transformers (Two windings). <b>Specifications:</b> 3KVA,230/115V,50Hz 2KVA,230/110V,50Hz	02 02
20.	Complete Dissectible Machines trainer System <b>Specifications:</b> a.c. and d.c. meters, resistive and capacitive loads and power supplies. Fixed and variable a.c. and d.c. supplies are provided and require a three phase supply input of 400 - 415 V a.c. from a five wire system. Total power requirement is 6 kVA.	01
21.	Single phase AutoT/F. <b>Specifications:</b> 230/0-270V,16A(wire wound)	02
22.	Scott Transformers With connection arrangement. <b>Specifications:</b> 1KVA,230/115V4.34A (I/P) 3 KVA	01 01
23.	Scott connection trainer. <b>Specifications:</b> <b>Main Transformer :</b> Input Winding : 0 - 200 V (50%) $\pm$ 10%, 50 Hz and 0 - 200 V (50%) $\pm$ 10%, 50 Hz Output Winding : 0 - 230 V $\pm$ 10%, 50 Hz <b>Teaser Transformer:</b> Input Winding : 0 - 115.6 V (28.9%) $\pm$ 10%, 50 Hz	01

	346.4 V (86.6%) $\pm 10\%$ , 50 Hz 400 V $\pm 10\%$ , 50 Hz	
24.	Trainer for Sumpeners Test of two single phase transformer (complete kit). <b>Specifications:</b> 2 KVA, Primary: 0-125V Secondary: 0-125V	01
25.	Trainer for Parallel operation of two single phase transformer. <b>Specifications: Transformer(2 Nos.):</b> Rating- 1KVA, Primary: 0-230 V, Secondary: 0-200-230V	01
26.	Starter. <b>Specifications:</b> D.O.L For 5HP IM,415 V	03
27.	Phase sequence meter. <b>Specifications:</b> 500V	01
28.	Wattmeters. <b>Specifications:</b> 2.5A/300V(LPF) 10A/150V(UPF) 5A/300V(LPF) 10A/75V(UPF) 20A/300V(UPF) 10A/300V(UPF)	02 02 02 02 02 02
29.	Three phase wattmeter. <b>Specifications:</b> 5A/10A/20A/500V(LPF and UPF)	02
30.	Voltmeter <b>Specifications:</b> 0-300V(M.I.) 0-250V(M.I.) 0-150V(M.I.) 0-50V(M.I.) 0-500V(M.I.)	02 02 02 02 02
31.	Ammeter <b>Specifications:</b> 0-2A (M.C.) 0-2.5A(M.I.) 0-5A(M.I.) 0-10A(M.I.) 0-20A(MI)	02 02 02 02 02
32.	Load box three phase single phase <b>Specifications:</b> 230V/0-15A( Rheostat) 230V/0-15A( Rheostat)	02 02
33.	Digital Tachometernon contact type Range : Tachometer: 5.0 to 9999 rpm; Resolution 1 rpm; Accuracy: $\pm 0.1\%$ + 2 digits; Display:5-digit LCD, Flash duration:<1000 microseconds; Max measuring distance:12+Memory:last reading and min/max;	02
34.	Rheostat <b>Specifications:</b> 250ohm,1.5A(wire wound)	01

	400ohm,8A.(double tube)	06
35.	Loading Rheostat <b>Specifications:</b> 2KVA 1.5A per step	01
36.	Fuses(glass cartridge) <b>Specifications:</b> 5A 10A	12 12
37.	SPST Switch <b>Specifications:</b> 20A	02
38.	DC machine Starter: 3-point starter 4-point starter 3-point demo starter 4-point demo starter	02 02 01 01
39.	Clamp meter <b>Specifications:</b> AC current range:200A DC current range:200A ( 2% ± 5) AC voltage range:600V AC voltage range:600V <b>(1.5% ± 5)</b>	01
40.	MG set Coupler	04
41.	Single Phase Power Analyzer Able to capture voltage sags, transients and inrush current and other power relate events with voltage, current, frequency, power harmonics up to the 50th harmonic or more. Able to log harmonics and all other readings over time and provide a complete harmonics profile. Able to record selectable parameters for up to 15 days or more and memories to save/recall screens and data with cursor readings up to 20 measurements or more. True-rms voltage (ac + dc) up to 1000 V or higher, Current (ac + dc) up to 500 A with accuracy of ±1% , Frequency up to 15.0 kHz with accuracy of ±0.5%, Measurement of Watts, VA, VA Reactive, PF, DPF, Display of Total Harmonic Distortion, Volts (Fund. & Harmonic), Amps (F&H) Watts (F&H) Freq. (H), %(H) of total, Phase (H), bandwidth up to 1 MHz.	01
42.	Hall Effect AC/DC Current probes Shall be able to measure currents in the range of 20mA to 50 A.	04
43.	AC/DC Voltage probes (Differential Probes) Shall be able to measure voltages up to 1500V.	04
44.	Digital Storage oscilloscope 100 MHz bandwidth with 4input Channels, 250 MSa/s Real time and 25 GSa/s Equivalent time sampling, or higher; 4k memory length per channel, peak detect as fast as 10 ns, save/recall of 15 front panel settings & waveforms, 5.7+ TFT Colour Display, 19 auto measurements, arithmetic operators-add subtract, FFT, USB port for PC Connection data logger	01

45.	Wire Roll <b>7/22:-</b> Red Yellow Blue <b>3/22:-</b> Red Yellow Blue	02 02 02 02 02 02
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**PROCESS CONTROL LAB.**

Sr. No	Description with complete specification	Qty																																
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	TERMINAL BLOCK	SPRING LOADED	
	LENGTH U	400 mm	
<b>4.</b>	<b>THERMOCOUPLE</b>		<b>04</b>
	Type	K TYPE-(chromel alumel)	
	COMPLETE ASSY.	YES	
	HEAD TYPE	IP-65 universal screwed type	
	HEAD MATL	AL	
	RESPONSE TIME	LESS THAN 20sec for measurement	
	TERMINAL BLOCKS	SCREW TYPE	
	CONDUIT CONN.	¾" NPT	
	NIPPLE SIZE	½" NPT	
	LEADS	STD.	
	SHEATH MATL	SS316	
	ELEMENT OD	8 mm	
<b>5.</b>	<b>DIFFERENTIAL SMART PRESSURE TRANSMITTER</b>		<b>04</b>
	SERVICE	LIQUID	
	RANGE	0-1500mmWC	
	WORKING PRINCIPLE	SMART	
	TYPE	TWO WIRE	
	OUTPUT	4-20mA DC SIGNAL	
	MEASURING ELEMENT	CAPSULE/DIAPHRAGM	
	OUTPUT INDICATOR	LCD	
	BODY	FORGED CARBON STEEL	
	OPERATING VOLTAGE	16-48 VOLTS DC	
	ACCURACY	+/-0.2 % OF SPAN	
	REPEATABILITY	+/- .05% OF SPAN	
	HOUSING	IP65	
	ACCESSORIES	UNIVERSAL MOUNTING BRACKET	
	SPAN AND ZERO	LOCALLY ADJUSTABLE	
<b>6.</b>	<b>STRIP CHART RECORDER</b>		<b>04</b>
	INPUT	Universal input	
	MEASURING CHANNELS	2	
	COLORS	RED & GREEN	
	CHART	7.5m FANFOLD OR 15m ROLL	
	PEN RESPONSE TIME	4 sec	
	DISPLAY	5 DIGIT LED	
	PEN ACCURACY	0.2% OF SPAN	
	DISPLAY RESOLUTION	+/-1 DIGIT	
	DISPLAY RANGE	-9999 TO +99999	
	CONFIGURATION	FRONT FASCIA OR VIA PC	
	POWER SUPPLY	85-265V	
	ELECTRICAL CONNECTIONS	SCREW TERMINALS	
	COLD JUNCTION	AUTOMATIC	

	COMPENSATION		
	ANALOG INPUTS	1 OR 2 ISOLATED	
	PROTECTION	IP65	
<b>7.</b>	<b>PLC trainer</b>		<b>01</b>
	Plc Trainer must consist Of 1). PLC with expansion slots having at least 8 Digital and 2 Analog Inputs and 8 Digital and 2 Analog Outputs. 2 ) A Simulator For The Inputs And Outputs With 24VDC Power Supply. 3) PLC /PC Cable Along With Programming Software		