**REGISTERED**

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**Subject:  Notice Inviting Quotation for procurement of equipment for EIE Dept.**

This institute intends to procure the Equipment for EIE Dept. as listed below. Interested Firms/Parties are requested to send the quotation to the office of undersigned in a sealed cover duly super scribed **“Quotation for Equipment for EIE Dept” So as to reach on or before 27.10.15.**

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| **S. No.** | **Name of item** | **Qty.** | **Remarks** |
|  | Temperature control system kit | 02 |  |
|  | Potentiometer error detector | 02 |  |
|  | Linear system simulator | 02 |  |
|  | Pulse oximeter with adult finger probe | 01 |  |
|  | Short wave diathermy | 01 |  |
|  | Ultrasound therapy unit | 01 |  |
|  | Module for design of EEG acquisition system | 01 |  |
|  | Modules for design of EOG acquisition system | 01 |  |
|  | Modules for design of PCG acquisition system | 01 |  |
|  | Modules for design of human temperature measurement system | 01 |  |
|  | Modules for design of respiration rate measurement system | 01 |  |
|  | Modules for design of pressure measurement system | 01 |  |
|  | Modules for design of ECG simulator | 01 |  |
|  | Modules for design of ECG Heart rate monitor | 01 |  |
|  | Modules for construction of FM modulator for bio signal | 01 |  |
|  | Modules for design of electrical isolation for bio signal | 01 |  |
|  | Modules for design of EMG biofeedback system | 01 |  |
|  | Modules for design of nerve stimulator | 01 |  |
|  | Modules for design of electronic stethoscope | 01 |  |
|  | Modules for design of temperature control system | 01 |  |
|  | Modules for design of respiration rate monitor | 01 |  |
|  | Modules for design of bio telemetry | 01 |  |
|  | Modules for design of apnea monitor | 01 |  |
|  | Modules for design of digital pressure monitor | 01 |  |
|  | Modules for design of digital flow monitor  (using pressure sensor) | 01 |  |
|  | Modules for design of pacemaker | 01 |  |
|  | Modules for design of audiometer | 01 |
|  | Defibrillator demo type 230 v / 50hz. Operated system | 01 |
|  | Optional defibrillator simulator | 01 |
|  | X-ray machine demo type | 01 |

**Terms & Conditions are as under:**

**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 to avoid any sort of delay.**

**N.B.:**   

1. Rate of Sales Tax/VAT/Service Tax, if extra must be mentioned clearly.
2. Price must be quoted FOR, SLIET.
3. Quotation received later than due date are liable to be rejected.
4. Quotation addressed to the Director, SLIET must be sent to the Faculty I/c (Store & Purchase), SLIET, Longowal, Distt. Sangrur – 148106, Punjab.
5. We are not responsible for accidental opening of the cover if it is not properly super scribed and sealed.
6. Duly signed Quotation must be submitted on letter head of the firm with all particular, any other format will not be acceptable.
7. A certificate on the letterhead of the organization that the firm/company is not blacklisted by any Govt. organization/Department.
8. No correspondence regarding acceptance/rejection of a quotation will be entertained.
9. Other terms and condition for submitting the quotation are given overleaf which must be read carefully before submitting the quotation.

**Faculty I/c (Store & Purchase)**

**-3-**

**TERMS & CONDITIONS FOR QUOTATION**

|  |  |
| --- | --- |
| **DELIVERY** | The rate quoted   must 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. |
| **TERMS OF PAYMENT** | Our normal term of payment is within 45 days after receipt of stores in good condition by means of cheque/draft/RTGS. |
| **PERFORMANCE SECURITY** | 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. |
| **EMD** | In case the quoted value is Rs. One lac above, EMD@2% of the quoted value in the shape of DD valid for a period of 45 days beyond the final bid validity period is required to be submitted along with quotation. |
| **TAXES** | No sales tax concession against Form ‘C’ and ‘D’ is admissible to this Institute. |
| **EXEMPTIONS** | 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 though 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.  **NO ADVANCE PAYMENT WILL BE MADE.** |
| **ENLISTMENT OF INDIAN AGENTS** | In case an Indian Agent who desire to quote on behalf of their foreign manufacturer/principals, a copy of the registration certificate/letter issued by central purchase organization (DGS&D) as an Indian Agent of foreign principals under the compulsory enlistment scheme of the department of expenditure ministry of finance is also required as per rule 143 of GFR-2005. |
| **DIRECTOR’S RIGHTS** | 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 does not bind itself to accept the lowest price.  In case of any dispute, the decision of Director SLIET will be final & binding. |
| **VALIDITY OF QUOTATIONS** | Quotations must remain valid for period of at least 03 months. |
| **SAMPLE/BRAND/**  **MAKE/WEIGHT** | 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. |
| **REJECTION** | Quotation not confirming to the set procedure as above will be rejected.  Conditional, telegraphic quotation shall be rejected out rightly. |
| **DISCOUNT/REBATES** | 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. |
| **GENERAL TERMS** | SLIET shall not be held responsible for any postal delay in sending or late receipt of quotation. Quotation should be free from corrections & erasures.  **Other terms & Conditions will be applicable as per GFR-2005**.  **Faculty I/c (Store & Purchase)** |

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| **S. No.** | **Detailed specifications of items** | **Qty.** |
| **1.** | **TEMPERATURE CONTROL SYSTEM KIT**  Temperature controller with facilities for P, I, D and relay control blocks  Operating temperature: Ambient to 90°C  Separate controls for P, I, D channel gains  Two settings for relay hysteresis  Fast 25W oven fitted with IC temperature sensor  Forced cooling option to ready the oven for next experiment  Digital display of set and measured temperature on a 3½ digit built-in DVM  0-9999 sec. timer on panel for a convenient temperature response experiment  Buffered output for recorder  IC regulation in controller circuit power supplies  220V±10%, 50Hz mains operation  Supporting literature and patch cords included | 02 |
| **2.** | **POTENTIOMETER ERROR DETECTOR**   * + High quality servo-potentiometers of 360° shaft rotation   + Built-in signal and power sources   + 3½ digit DVM for measurements   + 220V±10%, 50Hz mains operation | 02 |
| **3.** | **LINEAR SYSTEM SIMULATOR**   * + Simulated first, second and third order system of type-0 and type-1 (4 combinations)   + Calibrated variable gain amplifier (Resolution 1 : 1000)   + Built-in signal sources: Square wave and Triangular ◦Frequency: 45-90Hz   + Amplitude: 0-2.5V approximately   + Trigger output for perfectly steady display on CRO   + Uncommitted amplifier for phase adjustment   + Provision for disturbance inputs   + 220V±10%, 50Hz mains operation | 02 |
| **4.** | **PULSE OXIMETER WITH ADULT FINGER PROBE** | 01 |
| **5.** | **SHORT WAVE DIATHERMY**  With 250watts and 27.12 Mhz frequency | 01 |
| **6.** | **ULTRASOUND THERAPY UNIT** | 01 |
| **7.** | **MODULE FOR DESIGN OF EEG ACQUISITION SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  ELECTRODES,  EEG AMPLIFIER,  LOW PASS FILTER,  GENERAL AMPLIFIER,  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| **8.** | **MODULES FOR DESIGN OF EOG ACQUISITION SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ELECTRODE  • EOG AMPLIFIER  • LOW PASS FILTER  • GENERAL AMPLIFIER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 9. | **MODULES FOR DESIGN OF PCG ACQUISITION SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SENSOR • PCG AMPLIFIER • BAND  PASS FILTER • GENERAL AMPLIFIER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 10. | **MODULES FOR DESIGN OF HUMAN TEMPERATURE MEASUREMENT SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SENSOR • TEMP. AMPLIFIER • DVM  SELECTOR • DVM  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 11. | **MODULES FOR DESIGN OF RESPIRATION RATE MEASUREMENT SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SENSOR • RESP. AMPLIFIER • LOW  PASS FILTER • GENERAL AMPLIFIER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 12. | **MODULES FOR DESIGN OF PRESSURE MEASUREMENT SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SENSOR • FLOW ADAPTOR •  PRESSURE AMPLIFIER • GENERAL  AMPLIFIER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 13. | **MODULES FOR DESIGN OF ECG SIMULATOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ECG SIMULATOR • GENERAL  AMPLIFIER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 14. | **MODULES FOR DESIGN OF ECG HEART RATE MONITOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ELECTRODE • ECG AMPLIFIER • QRS  FILTER • V.T. DETECTOR •  REFRA.GENERATOR •  SYNC.GENERATOR • F TO V  CONVERTOR • DVM SELECTOR • DVM •  AUDIO  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 15. | **MODULES FOR CONSTRUCTION OF FM MODULATOR FOR BIO SIGNAL**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SINE WAVE GENERATOR • GENERAL  AMPLIFIER • FM MODULATOR  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 16. | **MODULES FOR DESIGN OF ELECTRICAL ISOLATION FOR BIO SIGNAL (ELECTRICAL SAFETY)**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ELECTRODE • ECG AMPLIFIER • LOW  PASS FILTER • GENERAL AMPLIFIER •  OPTO COUPLER • GENERAL AMPLIFIER  • FILTER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 17. | **MODULES FOR DESIGN OF EMG BIOFEEDBACK SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ELECTRODE • EMG AMPLIFIER • HIGH  PASS FILTER • GENERAL AMPLIFIER •  AUDIO AMPLIFIER • LEVEL INDICATOR  • SPEAKER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 18. | **MODULES FOR DESIGN OF NERVE STIMULATOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • OSCILLATOR • AMPLITUDE CONTROL  • HIGH VOLT GENERATOR  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 19. | **MODULES FOR DESIGN OF ELECTRONIC STHETHOSCOPE**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • PHONO SENSOR • PCG AMPLIFIER •  FILTER • GENERAL AMPLIFIER • AUDIO  AMPLIFIER • SPEAKER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 20. | **MODULES FOR DESIGN OF TEMPARTURE CONTROL SYSTEM**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • TEMPRATURE SENSOR •  TEMP.AMPLIFIER • GENERAL  AMPLIFIER • DVM SELECTOR • DVM •  HIGH ALARM • ELECTRONIC RELAY  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 21. | **MODULES FOR DESIGN OF RESPIRATION RATE MONITOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • RESPIRATION SENSOR •  RESPIRATION AMPLIFIER • FILTER •  GENARAL AMPLIFIER • RESPIRATION  DETECTOR • REFRA.GENERATOR • F TO V CONVERTOR • DVM SELECTOR •  AUDIO • DVM POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 22. | **MODULES FOR DESIGN OF BIO TELEMETRY**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • PERPHERAL PULSE SENSOR •  PERIPHERAL PULSE AMPLIFIER • LOW  PASS FILTER • PULSE DETECTOR •  REFRA. GENRATOR • FM TRANSMITTER  • FM RECEIVER • PULSE DETECTOR •  REFRA.GENERATOR • F TO V  CONVERTOR • DVM SELECTOR • DVM  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 23. | **MODULES FOR DESIGN OF APNEA MONITOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • RESPIRATION SENSOR • RESPIRATION  AMPLIFIER • FILTER • GENERAL  AMPLIFIER • RESPIRATION DETECTOR  • REFRA.GENERATOR • SYNC  GENERATOR • R/S FLIP FLOP • AUDIO •  TIMER POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 24. | **MODULES FOR DESIGN OF DIGITAL PRESSURE MONITOR**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • PRESSURE SENSOR • PRESSURE  AMPLIFIER • GENERAL AMPLIFIER •  SUBTRACTOR • V REF • DVM  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 25. | **MODULES FOR DESIGN OF DIGITAL FLOW MONITOR (USING PRESSURE SENSOR)**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • PRESSURE SENSOR • FLOW ADAPTOR  • PRESSURE AMPLIFIER • GENERAL  AMPLIFIER • DVM SELECTOR • DVM  POWER SUPPLY WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 26. | **MODULES FOR DESIGN OF PACEMAKER**  COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • ECG SIMULATOR • QRS DETECTOR •  PACED PULSE DETECTOR • PACED  PULSE SIMULATOR • PULSED WIDTH  CONTROL • SIMULATED OUTPUT •  PACED OUTPUT  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 27. | **MODULES FOR DESIGN OF AUDIOMETER**  WITH FOLLOWING WORKING MODULES COMPLETE WITH MANUAL AND CONNECTING WIRES FOR LABORATORY PURPOSE  • SINE WAVE GENERATOR • AUDIO  AMPLIFIER • L R SELECTOR • SPEAKER  • WHITE NOISE GENERATOR • AUDIO  AMPLIFIER • SPEAKER  POWER SUPPLY  WITH SUITABLE CARRYING CASE FOR SAFELY KEEPING MODULES | 01 |
| 28. | **DEFIBRILLATOR DEMO TYPE 230 V / 50HZ. OPERATED SYSTEM**  WITH DIGITAL DISPLAY, WITH SUITABLE ELECTRODES AND ENERGY OUTPUT 250 JOULES OR MORE SUITABLE FOR LABORATORY DEMONSTRATION WITH COMPLETE LAB MANUAL | 01 |
| 29. | **OPTIONAL DEFIBRILLATOR SIMULATOR**  Power Supply : 230V / 50Hz  Indication: Mains, rhythms, Audio &Visual  Rate: Variable.  Input: D. C. Defibrillator output  Out Put :Defibrillator Simulator Output  And ECG.  Output Sockets: EP Banana Sockets | 01 |
| 30. | **X-RAY MACHINE DEMO TYPE**  230 V / 50HZ. OPERATED SYSTEM  USING DUMMY X-RAY TUBE AND CONTROL CIRCUIT WITH MA, KV AND TIMER. CONTROLS WITH FULL FIELD BEAM COLLIMATOR.  SUITABLE FOR LABORATORY DEMONSTRATION WITH COMPLETE LAB MANUAL | 01 |