



Alipurduar University

P.O. Alipurduar Court , Dist Alipurduar , Pin736122

Memo No. Apdu/reg/tender/03/2023

Dated 09.11.2023

e-Notice Inviting e-Tender - e-NIT /APDU-06/ 2023-24 (2nd Call)

e-Tenders are invited from reputed Vendors for supply and installation of Lab. equipments in the Department of Physics, Alipurduar University, P.O. Alipurduar Court, Dist. Alipurduar, PIN- 736122. For details please visit <https://wbttenders.gov.in> .

| Sl. No. | Item | Earnest Money | Completion Time |
|---------|-------------------|---------------|---|
| 1 | As Per Annexure-I | ₹ 20000.00 | 15 days from the date of issuance of supply order |

TERMS AND CONDITIONS:

1. The base price and GST shall be shown separately.
2. Taxes will be deducted at source as per prevailing rules of Central and State Government.
3. The terms and conditions of payment shall be declared clearly.
4. Copy of current year Trade License, PAN card, GST registration certificate shall be accompanied with the technical bid documents. [Non Statutory Documents]
5. The vendor shall submit authorization certificate from OEM along with the technical bid. (Non Statutory documents).
6. The vendor shall provide Company details as per Annexure-II.
7. The vendor shall have credential of supply of similar equipments in any University / institution / Govt. Organization. Copy of credential certificate shall be submitted along with technical bid (Non Statutory documents).
8. The vendor shall clearly state the pre-installation requirements and take all responsibilities to arrange the same.
9. The equipment shall carry minimum 3 (Three) year onsite warranty from the date of installation.
10. The service engineer shall attend the call within 24 hrs for trouble shooting to be done on no wait basis.
11. The successful tenderer shall complete the installation of the equipment within 15 (Fifteen) days from the date of issuance of the supply order.
12. A sum of Rs. 20,000/- shall be deposited to the account of the University through **Online system of eTender** as earnest money and the copy of receipt challan of NEFT / RTGS with UTR number shall be accompanied with the technical bid document (Statutory Documents) failing which the tender paper will be treated as cancelled. The earnest money of the unsuccessful quotationer (s) will be refunded without interest after one month of the opening of tender paper and the same of the successful candidate will be refunded without interest after three month softthesis factory installation of the equipment subject to redressed of complaint, if any.
13. The University authority reserves the right to accept or reject any/all quotations.
14. The quotation should be valid upto 31.03.2024.
15. The brochure / catalogue of the equipment shall accompany the technical bid documents (Non Statutory documents).
16. Selection of the agency will be made on the basis of both technical and financial bids. Technical bids and financial bids shall be submitted by online only. Offline submission of tender paper will not be accepted.
17. 92% of the total or devalue shall be released after the successful installation / commissioning of the equipment against the submission of the test report duly certified by the concerned authority. The remaining 8% of the bill value shall be deducted and kept aside as security deposit which will be

paid after 3 (three) months from the date of satisfactory installation, subject redress of complaints ,if any

18. The last date of submission of tender form is up to 28.11.2023 at 6.00 P.M. and to be opened on 01.12.2023 at 11.00 A.M.
19. The tenderers may remain present at the opening of tender.
20. All cases of disputes not covered under the terms & conditions of Tender will be referred to the Vice-Chancellor for a decision which shall be final and binding on both the parties.
21. For any clarification regarding tender please contact with the Sri Kishor Chaudhury, Head of the Department, Physics, Alipurduar University. (Tel. 9614569062), email Id-chaudhurykishor@gmail.com, Alipurduar University.
22. It may be noted that all the Lab Equipments of Department of Physics of the University will be purchased after receiving the financial and administrative approval/grants from the competent authority, Department of Higher Education, Govt. of W.B.
23. Date & Time Schedule

| Sl.NO | Particulars | Date &Time |
|-------|--|---|
| 1 | Publishing of Tender | 11.11.2023 |
| 2 | Documents download/sell start date(Online) | 11.11.2023 FROM 10.00 A.M. |
| 3 | Bid submission Start Date | 11.11.2023 FROM 10.00 A.M. |
| 4 | Bid Submission End Date | 28.11.2023 UP TO 6.00 P.M. |
| 5 | Technical Bid Opening | 01.12.2023 AT 11.00 AM. |
| 6 | Offline Submission | NO OFF LINE SUBMISSION WILL BE ACCEPTED |
| 7 | Financial Bid Opening | To be notified |

Sd/-
Registrar (Additional Charge)
Alipurduar University

List of Lab. equipments along with specification

| Serial No. | Instruments along with experiments name & specification |
|------------|---|
| 1 | 30 MHz Dual Channel Cathode Ray Oscilloscope (Type of Product: Digital Oscilloscope Bandwidth: 0-30MHz Bandwidth Limit: 30 MHz Frequency: 1KHz Display : 6-inch rectangular type) |
| 2 | 3 MHz Function Generator (Type of Product : Digital Function Generator Display: 3.6-inch (480 × 272 pixels) LCD & 3.5 Digit Frequency Range (Hz): 0.3MHz – 3 MHz Comprehensive waveform output: 5 basic waveforms, and 160 built-in arbitrary waveforms Comprehensive modulation functions: AM, FM, PM, PWM FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSBAM, QPSK, SUM, sweep, Burst SCPI, and LabVIEW supported.) |
| 3 | 0-30 V dc dual regulated power supply (Output Voltage : 0-30 V Ripple and Noise : ≤1 mV(RMS) Line Regulation CV: ≤0.01% +3 mV Load Regulation CV: ≤0.001% +3 mV Maximum Output Current Range: 0-3 A Output Current: 0-2 A Power Supply: 230 V No. Of Outputs : Single Output Maximum Output Voltage Range : 16-30 V Display: 3½ Digit, 0.5" High Brightness LED) |
| 4 | 4 ½ digit Digital Multimeter (Type of Product : Digital Multimeters Features : Backlight, Frequency, Capacitance, Duty Cycle, Diode Test, Audible Continuity, Data Hold, NCV, MIN / MAX, Å ZERO / REL and APO functions) |
| 5 | 230 V/ 9 V, 1A Step down transformer |
| 6 | 1N4007 Diode |
| 7 | IC 7805 |
| 8 | Resistor 10, 100, 1000Ω, ¼W |
| 9 | Electrolytic Capacitor 1000µF/25V |
| 10 | Ceramic Capacitor 0.33 µF, 0.1 µF |
| 11 | Breadboard & 60 Pieces Jumper Wires Set (M-F, M-M, F-F) |
| 12 | Connecting wire |
| 13 | BNC Cables and Probes |
| 14 | Wire cutters |
| 15 | Wire strippers |

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| 16 | Pliers |
| 17 | Tweezers |
| 18 | Wire Crimpers |
| 19 | Computers Category : Desktops CPU Model Manufacturer : Intel Computer Processor Count: 4 Graphics Card Interface: Integrated CPU Socket Type: Intel CPU Type: Corei5 Display: 21inch (1920x1080) CPU Processor Speed: 2.50 to 2.99 GHz Operating System: Windows 11 home RAM Memory Size: 8 Gb Desktop Hard Drive Type: 512 Gb SSD Personal Computer Connectivity Technology: HDMI, Ethernet, Wi-Fi & USB Special Features: Microphone &Speakers Computer Usage: Research & Simulation RAM Memory Technology: DDR4 Dedicated Graphics Memory: 4Gb Included Components: Keyboard, Mouse, Speakers & Monitor Wireless Communication Standard: Bluetooth |
| 20 | Drills and Drill Bits |
| 21 | A small table top drill |
| 22 | Weller controlled-temperature soldering station |
| 23 | Magnifier with a built-in LED light |
| 24 | A set of digital calipers |
| 25 | Measuring tape |
| 26 | An architect's scale |
| 27 | A panel-mount analog voltmeter |
| 28 | A panel-mount digital voltmeter |
| 29 | 2.5 W-5 volt dc regulated power supply (Output voltage : + 12 V, - 12 V, + 5 V, - 5 V xed Current : 300 mA (each supply) Line Regulation : ± 0.05 % for 10 % variation of mains voltage. Load Regulation : ± 0.1 % for a full load of 300 mA) |
| 30 | Wire and Cable (0.5Amp, 0.75 Amp, 1.0Amp) |
| 31 | Clip Leads (different color) |
| 32 | Variable Resistors |
| 33 | Electrolytic capacitors of various sizes and capacities : (a) Disc Ceramic, (b) MLC, (c) Aluminum Electrolytic, and (d) Tantulum |
| 34 | Transistors |
| 35 | Enamel-Insulated Wire |
| 36 | Single-core Hookup Wire (24 AWG) |

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| 37 | <p>To study the Zeeman effect: with external magnetic field; Hyperfine splitting.</p> <ol style="list-style-type: none"> 1. High Resolution Fabry Perot Etalon, 2. Mercury Discharge Tube, (Low Pressure Mercury Discharge Tube) 3. Power Supply for MT (High Voltage Power Supply for Discharge Tube) 4. Narrow Band Interference Filter, Central Wave Length: 546nm Tmax: 74% HBW: 8nm 5. Polarizer with lens, 6. Optical Bench: OB 7. CCD Camera: CAM-700 (High Resolution CCD Camera) 8. Telescope with Focussing Lens: FL 9. Monitor 17: TV-17 10. Electromagnet, EMU 11. Constant Current Power Supply, DPS) |
| 38 | <p>Apparatus for studying the characteristics curve of G.M. Counter and to study the decay of activity of an artificially activated source.</p> <p>Source: Radioactive Geiger-Muller Counter: (Counts : 0-999999. Time preset: upto 10 hours with 1 to 60 second) Power supply: (High Voltage Output: 0-800V with coarse and fine, Display: High Contrast LCD 20 x 4 & Mains : 230V \pm10%, 50Hz) GM Bench GM Tube Computer with STX software</p> |
| 39 | <p>Apparatus for studying the characteristics curve of G.M. Counter and to find out the gamma counting efficiency of G.M. Tubes.</p> <p>Source: Radioactive Geiger-Muller Counter: (Counts : 0-999999. Time preset: upto 10 hours with 1 to 60 second) Power supply: (High Voltage Output: 0-800V with coarse and fine, Display: High Contrast LCD 20 x 4 & Mains : 230V \pm10%, 50Hz) GM Bench GM Tube Computer with STX software</p> |
| 40 | <p>Apparatus for studying the characteristics curve of G.M. Counter and to study the gamma absorption in Pb/Hg absorber.</p> <p>Source: Radioactive Geiger-Muller Counter: (Counts : 0-999999. Time preset: upto 10 hours with 1 to 60 second) Power supply: (High Voltage Output: 0-800V with coarse and fine, Display: High Contrast LCD 20 x 4 & Mains : 230V \pm10%, 50Hz) GM Bench GM Tube Computer with STX software</p> |
| 41 | <p>Apparatus for studying the pulse height spectra of Cs-137 using a scintillator detector.</p> <p>1 Sensor-CASSY 524 010 or 524 013 1 CASSY Lab 2 524 220</p> |

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| | <p>1 MCA box 524 058 1 Mixed preparation α, β, γ 559 845 or 559 835 1 Scintillation counter 559 901 1 Detector output stage 559 912 1 High-voltage power supply 1.5 kV 521 68 1 Socket for scintillator screening 559 891 1 Stand rod, 47 cm 300 42 1 Leybold multiclamp 301 01 1 Universal clamp, 0...80 mm 666 555 1 PC with Windows 10 1 HF cable, 1 m 501 02</p> <p style="text-align: right;">Two-channel oscilloscope 400 575 302</p> |
| 42 | Celestron NexStar 4 SE Telescope |

BIDDERS DETAILS**(To be provided on company letter head)**

NIT NO.:

TENDER ID:

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| 1 | NAME OF THE BIDDER | |
| 2. | ADDRESS | |
| 3. | CONTACT NUMBER | |
| 4. | CONTACT PERSON | |
| 4. | EMAIL ID | |
| 5. | BANK DETAILS A/c Name A/c Number Name of the Bank Name of the Branch IFSC | |

Authorized Signatory (with seal & Stamps)