

VIRTUAL UNIVERSITY OF PAKISTAN		TENDER NOTICE		
Through e_Pak Acquisition and Disposal System (EPADS) v2.0				
Sealed Tenders are invited through (EPADS v2.0) https://epads.gov.pk from the Firms who are registered with Tax Authorities on Active Taxpayers List (ATL) of FBR, for the following:				
Sr. No.	Description	Tender Fee (Rs.)	Tender Opening Date	Tender Receiving / Opening Time
1.	<u>Tender No. VU/26-27/08/897</u> Different Items for Electronics Lab (CS)	1,000/-	September 21, 2026	Receiving: 02:00pm Opening: 02:30pm
2.	<u>Tender No. VU/26-27/08/898</u> Network Firewalls(CT)	1,000/-	September 22, 2026	Receiving: 02:00pm Opening: 02:30pm

Tender documents for the above-mentioned tender(s) are also available on the Virtual University of Pakistan website (<https://www.vu.edu.pk/Opportunities/Tenders>). However, bids shall be submitted only through EPADS v2.0. Any bid submitted through any other mode shall not be considered.

The complete tendering process shall be carried out through EPADS v2.0.

Interested bidders are required to register themselves on EPADS v2.0 (<https://epads.gov.pk>) and submit their bids electronically through the EPADS v2.0 portal.

The Bid Security (if applicable), in the amount and form specified in the bidding documents and drawn in favor of the Virtual University of Pakistan, shall be uploaded as a scanned copy on EPADS v2.0. The original Bid Security, along with one hard copy of the sealed bid, must also be submitted physically to the Virtual University of Pakistan at the address provided below on or before the bid closing date and time. Bids requiring Bid Security that are submitted without the prescribed Bid Security shall be rejected. The bid submission and opening schedule shall be strictly observed.

The University reserves the right to accept or reject any bid, or to annul the procurement process at any stage, in accordance with the provisions of the Public Procurement Rules, 2004.

This Tender Notice is also available on the PPRA website (www.ppra.gov.pk) and the Virtual University of Pakistan website.

PID/0206/1/26

PROCUREMENT DEPARTMENT
DIRECTORATE OF FINANCE VIRTUAL UNIVERSITY OF PAKISTAN
SIR SYED MEMORIAL SOCIETY BUILDING 19-ATATURK AVENUE, G-3/1, ISLAMABAD
Phone No. 051-111-880-880 Extensions: 1354 / 1323 / 2823, 1651
Email: po@vu.edu.pk Website: www.vu.edu.pk
VU NTN: 4388557-8

TENDER DOCUMENT

DIFFERENT ITEMS FOR ELECTRONICS LAB (CS)

Tender No. VU/26-27/08/897

This tender will be opened on **September 21, 2026, at 02:30 pm** in the Procurement Department, Virtual University of Pakistan, Sir Syed Memorial Society, 19-Ataturk Avenue, G-5/1, Islamabad.

Name of Firm/Company: _____

Office Address: _____

Contact Person: _____ Designation: _____

Phone No: _____ Fax No: _____ Cell No: _____

GST Reg. No: _____ N.Tax Number: _____

Active email address (in CAPITAL letters): _____

Status of Firm/Company (Pls. tick appropriate box)

Manufacturer / Authorized Dealer ☐

General Supplier ☐

PROCUREMENT METHOD / PROCEDURE:
“SINGLE STAGE - ONE ENVELOP PROCEDURE”

TERMS AND CONDITIONS:

ITEMS MARKED WITH (*) MUST BE ATTACHED; OTHERWISE, YOUR BID WILL BE DECLARED AS NON-RESPONSIVE.

1. No bid shall be considered if:
 - i. The bid is not uploaded on EPADS V2.0.
 - ii. The bid is not submitted in hard copy as per the given schedule at the specified location.
 - iii. The uploaded bid and the hard copy are not in the same bidder's name.
 - iv. The bid is received without the Original Bid Security and Tender Fee, enclosed in a single envelope.
2. The notice published in the media shall be considered an integral part of this tender document.
3. The tender shall be opened on the specified date. In case the date falls on a public holiday, the tender shall be opened on the next working day.
4. To submit a tender with the Virtual University of Pakistan, bidders are required to deposit **Rs. 1,000/- online in any branch of Allied Bank Limited in Account No. PK58ABPA0010061279710055 (Virtual University of Pakistan). (*)**
5. The original deposit slip must be attached with the bid. This amount is a non-refundable tender fee and is mandatory. Cash, crossed/open cheques, Pay Orders, or Demand Drafts are not acceptable.

6. Bids submitted without the tender fee shall not be accepted. (*)
7. The tender should be addressed to the Director Finance, Virtual University of Pakistan.
8. The bidder should quote rates clearly in the tender document in both figures and words.
9. The duly completed bid document must reach the Procurement Department, Directorate of Finance, Virtual University of Pakistan, **not later than 02:00 PM on September 21, 2026**. Late tenders shall not be entertained. Telegraphic or faxed bids shall not be accepted. **Bids will be opened at 02:30 PM on the same date** at the office of the Procurement Department, Directorate of Finance, Virtual University of Pakistan, Islamabad.
10. VU shall open all bids through EPADS V2.0 as per the given schedule and at the place specified above, in the presence of bidders' representatives who choose to attend the meeting and sign the attendance sheet as evidence of their presence.
11. Please attach the Original Tender Document, along with item specifications, with the bid. (*)
12. VU shall not be responsible for any delay, loss, or non-receipt of bids sent by post or courier.
13. Original tender documents along with all specifications must be attached to the bid. (*)
14. **The bidder shall furnish, as part of its bid, a Bid Security(ies) (Earnest Money) as mentioned in the bidding documents uploaded at EPADS v2.0 in the form of Demand Draft (DD), Pay Order (PO), Call Deposit Receipt (CDR), or Bank Guarantee only. Cheques shall not be accepted. (*)**
15. Bids without bid security shall not be entertained, even if the bidder is technically qualified. (*)
16. A scanned copy of the bid security must be uploaded on EPADS V2.0, and the original hard copy must be submitted physically along with the bidding documents on the closing date. (*)
17. The deposit slip/proof of online transfer of the Tender Fee and Bid Security(ies) must be submitted in the required form, in a separate envelope placed inside the main envelope. (*)
18. The bid security shall be refundable to unsuccessful bidders after finalization of the tender. The earnest money of the successful bidder shall be retained until delivery of the items ordered. (*)
19. The bidder must provide the complete company profile, including the age of the company.
20. The bidder must submit a list of Directors/Partners/Owners along with the bid.
21. The bidder must be a registered taxpayer with FBR and appear on the Active Taxpayer List (ATL).
22. Copies of NTN and GST certificates must be attached.
23. If GST is exempted, relevant documentary evidence must be provided.
24. Income Tax and Sales Tax shall be deducted as per Government rules. (*)
25. Bidder(s) should quote their rates (including all applicable taxes, duties at prevailing rates and transportation & other related costs) clearly on the Tender Document for each item, both in figures and words. Sales Tax and Income Tax shall be applicable at the prescribed rates.
26. Please attach a Financial Soundness Certificate/Account Maintenance Certificate issued by your bank, not older than three (03) months. (*)
27. The bidder must submit an Affidavit on Rs. 100/- stamp paper confirming that the Bidder/Firm/Company/Contractor is not blacklisted by the Public Procurement Regulatory Authority (PPRA). The prescribed draft is attached to this document. In case of any false or misleading statement, the bidder's offer shall be liable to rejection. (*)
28. The bid shall remain valid for a period of three (03) months from the date of bid opening. Bids with a shorter validity period shall be rejected as non-responsive. (*)
29. If two or more bidders quote the same price in the Financial Proposal, the order may be equally divided among such bidders, or awarded to the bidder with better technical specifications, or VU may request the bidders to submit revised Financial Proposals.

30. The supplied items/services must conform to the standard specifications and be free from defects in all respects.
31. Items must be delivered / services will be provided at Virtual University of Pakistan's Islamabad Campus (G-10), within **Sixty (60) days** from receipt of the Purchase Order.
- a. No extensions shall be allowed unless granted by the Purchase Committee on justified grounds.
 - b. Delay in the provision of goods/items/services in accordance with the time schedule prescribed in the General Terms and Conditions (GTC) shall not be tolerated. In case of default, a penalty of 0.1% per day of the total contract/order amount or value of the delayed items/services shall be imposed, capped at a maximum of 10% of the total value of the Contract/Purchase Order/undelivered items/services.
 - c. Penalty on goods/items not delivered on time may lead to cancellation of the order without any liability to the University, and the bidder/supplier/firm/company may also be blacklisted.
 - d. Furthermore, VU may impose additional penalties in case of default and may initiate legal action. The University reserves the right to withhold pending payments or forfeit any guarantee/security submitted in this or any other contract.
32. Notwithstanding anything contrary in the General Terms and Conditions (GTC), the Bidder/Supplier shall not be liable for forfeiture of performance security, liquidated damages, late delivery charges, or termination for default if the delay or failure to perform obligations is due to a Force Majeure event.
- a. "Force Majeure" means an event beyond the control of the Bidder/Supplier, not involving fault or negligence, and not foreseeable, such as acts of God, floods, storms, earthquakes, fire, war (declared), terrorism, port closures, government restrictions, illegality arising from domestic or foreign laws, politically motivated nationwide strikes, or insurrection.
 - b. Changes in economic or market circumstances, including unexpected price increases affecting profitability, shall not constitute Force Majeure.
 - c. In case of a Force Majeure event, the Bidder/Supplier shall notify VU in writing within five (05) days, providing evidence and taking reasonable steps to mitigate the consequences. Failure to notify within the prescribed period shall result in waiver of the right to claim Force Majeure.
 - d. Unless otherwise directed in writing by VU, the Bidder/Supplier shall continue to perform its obligations as far as reasonably practicable and seek alternative means of performance.
33. Virtual University requires Contractors/Bidders to observe the highest standard of ethics during procurement and contract execution. The provisions of PPRA Rules/Act shall apply.
- a. VU may bar any firm/company/individual bidder/contractor/consultant in accordance with Blacklisting procedures under Public Procurement Rules 2004, if deemed necessary.
 - b. The Contractor/Bidder(s) shall comply with the provisions stated in the General Terms & Conditions of the Contract.
34. Virtual University may, under applicable laws, debar a bidder/contractor from participating in any public procurement process of VU for a specified period if the bidder or contractor has:
- a. Acted in a manner detrimental to public interest or good practices.
 - b. Consistently failed to perform contractual obligations.
 - c. Performed the contract unsatisfactorily.
 - d. Indulged in corrupt practices.
35. If VU debars a bidder/contractor, the procuring agency:
- a. May blacklist the bidder/firm/company for at least three (03) years.
 - b. May forward the decision to PPRA for publication on its website.
 - c. May request PPRA to debar the bidder or contractor from procurement of all procuring agencies.
36. Virtual University reserves the right to initiate legal action, in addition to blacklisting, if any

bidder/supplier/firm/company is found involved in corrupt practices.

37. Virtual University of Pakistan (VU) reserves the right to increase or decrease the quantity of goods specified at the time of award in accordance with PPRA Rules. VU also reserves the right to place orders on a partial shipment basis.
38. The supplied items must be brand new, conform to standard specifications, and be free from defects in all respects.
39. Payment shall be released upon submission of the Commercial Invoice and Sales Tax Invoice, duly verified by the technical department, in accordance with SRO 660(I) 2007.
40. The University reserves the right to accept or reject any bid or annul the procurement process at any time as prescribed under PPRA Rules.
41. A bidder requiring clarification of the bidding document shall contact VU in writing within five (05) days **through EPADS v2.0 or through given email**. VU shall respond in writing, provided the request is received within the stipulated time. If clarification results in changes to essential elements of the bidding documents, VU may amend the documents prior to the submission deadline by issuing an addendum. Any addendum shall form part of the bidding document and shall be communicated in writing to all who obtained the document and published on the VU website and EPADS v2.0.
42. To assist in examination, evaluation, comparison of bids, and qualification of bidders, VU may request written clarification. No change in price or substance of the bid shall be permitted except to correct arithmetic errors. Failure to provide clarification within the specified time may result in rejection of the bid.
43. Provided that the bid is substantially responsive, VU shall correct arithmetic errors as follows:
 - a. If there is a discrepancy between the unit price and the line-item total, the unit price shall prevail unless there is an obvious decimal misplacement.
 - b. If there is an error in a total resulting from addition or subtraction of subtotals, the subtotals shall prevail.
 - c. If there is a discrepancy between words and figures, the amount in words shall prevail unless related to an arithmetic error.
44. Bidders shall be requested to accept corrections of arithmetic errors. Failure to accept corrections shall result in rejection of the bid.
45. Amicable Settlement
 - a. VU and the Supplier shall make every effort to resolve amicably through informal negotiation any dispute arising under or in connection with this contract.
 - b. If not resolved within thirty (30) days, the dispute shall be referred to arbitration.
 - c. Each party shall nominate one arbitrator in writing. The two arbitrators shall conduct proceedings in Islamabad and may appoint a third arbitrator if necessary.
 - d. Arbitration shall be conducted in accordance with the Arbitration Act 1940 (as amended). The decision of the majority shall be final and binding. Each party shall bear the cost of its appointed arbitrator, and the cost of the third arbitrator shall be shared equally. In case of resignation or incapacity of an arbitrator, a replacement shall be appointed without restarting proceedings.
46. An abnormally Low Bid is one where the price appears unreasonably low, raising concerns regarding the bidder's capability to perform the contract. VU may seek written clarification and detailed price analysis. If the bidder fails to demonstrate capability, the bid shall be rejected.
47. The University reserves the right to accept or reject any bid or annul the procurement process at any time in accordance with PPRA Rules.
48. Payment shall be made as per actual verified quantity after submission of the Sales Tax Invoice, duly verified by the department concerned, in accordance with SRO 660(I) 2007.
49. Delivered items must conform to standard specifications and VU requirements.

EVALUATION CRITERIA:

- i. Initial scrutiny of tender documents/bids
- ii. Technical Evaluation as per BOQ
- iii. Evaluation of sample Unit(s), **if needed**
- iv. Selection of technically compliant bidder(s)
- v. Financial Evaluation of compliant bidders(s)
- vi. Award of tender to the Most advantageous bidder(s)

**Procurement Department
Directorate of Finance
Virtual University of Pakistan
Sir Syed Memorial Society Building,
19-Ataturk Avenue, G-5/1, Islamabad
UAN: 051-111-880-880 Ext 1366, 1323, 2823
VU NTN: 4388557-8
Email: po@vu.edu.pk**

Declaration by the Bidder (draft)

Should be on Rs.100/- stamp paper

I, being the owner/proprietor/director/authorized representative of the firm/company, hereby certify that I have read and understood all the terms and conditions of this office and accept the same without any reservation.

I further confirm that all items and/or services provided shall be of the best quality, strictly in accordance with the prescribed standards, specifications, and requirements. I undertake to replace or redo, at my own cost, any item or service found to be substandard, unsatisfactory, or defective, without any claim whatsoever against the Virtual University of Pakistan (VU).

In case of failure to comply with the above, I understand and agree that VU shall have the right to impose penalties, confiscate the earnest money and blacklist the firm/company in accordance with applicable rules.

I hereby also confirm to provide warranty including service & support with parts for complete unit(s) (where applicable) from the date of delivery.

I further declare that, as of the date of this undertaking, the firm/company is not blacklisted by the Public Procurement Regulatory Authority (PPRA) or any other government organization.

SIGNATURE & STAMP

Name: _____

Designation: _____

FINANCIAL OFFER:

As per specifications given against each item.

**COMPLETE BILL OF QUANTITIES (BOQ) DISTRIBUTED IN LOTS, ALONG WITH
SPECIFICATIONS IS ATTACHED**

Virtual University of Pakistan

Virtual University of Pakistan

Different items for Electronics Lab (CS)

Detail of Requirement-BOQ (Tender No. VU/26-27/08/897 dated September 21, 2026)

Lot # 01 - lot & Instrumentation Lab Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
1	1	VARIABLE DC POWER SUPPLY <i>UNI-T (UDP3305S) or Equivalent</i> 315W Programmable linear DC power supply 5A 30V 3 CH variable DC power supply	1				
1	2	VARIABLE DC POWER SUPPLY <i>UNI-T (UTP3315TFL-II) or Equivalent</i> Output voltage range of 0–30V, output current range of 0–5A, 150W output power, load regulation of $CV \leq 0.01\% + 5mV$ and $CC \leq 0.1\% + 10mA$, accuracy at $25^{\circ}C \pm 5^{\circ}C$ of $<0.5\% + 20mV$ for voltage and $<0.5\% + 10mA$ for current, and ripple and noise $\leq 2mV_{rms}$.	6				
1	3	FUNCTION GENERATOR <i>UNI-T (UTG962E) or Equivalent</i> Output Waveforms: Sine, square, pulse, ramp, noise, DC, arbitrary, Output frequency range:1uHz-30MHz/60MHz multi-channel output	6				
1	4	DIGITAL OSCILLOSCOPE <i>UNI-T (UTD2202CEX) or HANTEK or Equivalent</i> USB Dual Channel 200Mhz 1G Sampling Rate High Voltage Probe PC LCD Portable Oscilloscope	6				
Total Amount of the lot (Rs.)							

Lot # 02 - Soldering Work Station Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
2	1	LCD TOUCH SCREEN SEPARATOR MACHINE HOT AIR STATION <i>KADA (KADA 9803D+) or Equivalent</i> 3-in-1 Rework Station with LCD Touch Screen Separator, Hot Air Station, and Soldering Iron Station. LCD display Input voltage: AC220V / 110V/+-/10% 50HZ / 60HZ, Temperature range: hot air gun 100-480 degrees Celsius, soldering station 200-480 degrees Celsius	6				
2	2	SOLDERING SOLDER IRON STAND HOLDER STATION MAGNIFIER <i>Any brand with the mentioned specifications</i> TE-803,.5x/4x/16x USB Auxiliary Clip Welding Magnifying Glass 16 LED Hand Soldering Solder Iron Stand Holder Station Magnifier by Electrical	6				
2	3	HEAT RESISTANT ANTI-STATIC MAT <i>HPFIX (HPESD15) or Equivalent</i> Required for workbench top. Must be capable to withstand high temperatures and dissipate static electricity.	8				
2	4	ANTI-STATIC WRIST STRAP <i>Pro'sKit AS-611 or Equivalent</i> Material: Elastic band with conductive threads, Resistance: 1M Ohm resistor built-in for safety, Grounding cord length: Coiled cord, Alligator clip for secure grounding.	6				
2	5	PCB REPAIR AND CURING KIT <i>MECHANIC UV Curing Light and Solder Mask Syringes or Equivalent</i> Lamp Power: 5V USB powered UV LED, Wavelength: 395nm, Solder Mask: Green/Black/Red syringe (10cc), Curing time: <3 minutes under UV light, prevents arcing and corrosion.	5				
Total Amount of the lot (Rs.)							

Lot # 03 - Electronics Student Workstation Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
3	1	DIGITAL MULTIMETER <i>UNI-T (UNI-T UT601) or Equivalent</i> Must be equipped with functions like Auto range, MAX/MIN/REL mode, Auto power off, LCD backlight, Analog bar graph, NCV, Low battery indication, EF (Electric Field) detection, Transistor measurement, Diode/continuity buzzer, Data hold, Input protection.	6				
3	2	DESOLDERING PUMP VACUUM SOLDER SUCKER ANTI-STATIC <i>Any brand with the mentioned specifications</i> Metal Body, Anti-Static, Self-Cleaning Shaft	10				
3	3	LOGIC PROBE <i>LP-3500 or Equivalent</i> The LP-3500 is a precision handheld digital logic probe designed for troubleshooting, inspecting, and testing digital circuits. It requires no internal battery and is fully compatible with TTL, DTL, and CMOS integrated circuits. The probe features color-coded LED visual indicators and dual audible tones, allowing users to easily determine logic high, logic low, and pulsing signals during circuit diagnostics.	6				
3	4	TRANSISTOR TESTER SMD TESTER <i>UNI-T (UT116A) or Equivalent</i> 36V DC voltage measurement. Resistance, capacitance, continuity, diode measurement	6				
3	5	SOLDERING GUN WITH SOLDER FEEDER <i>INGCO (SI016732) or Equivalent</i> Integrated automatic solder wire feeder, adjustable temperature control	2				
3	6	SPOT WELDER <i>SUNKKO (709A) or Equivalent</i> Soldering iron part, Temperature: 150°C ~ 450°C, Power: 50 W, Output Voltage: 20 V DC, Spot-welder part, Supply Voltage: AC 220 V ± 20 V/110 V, Power: 3.2 KW (Instantaneous), Current: 500 A, Electric leakage Switch Requirement: 60 A or more, Time of Double Pulse: 1 ~ 10 ms (adjustable), Time of Four Pulses: 2 ~ 20 ms (adjustable), Time of Eight Pulses: 8 ~ 80 ms (adjustable), Welding Pin Range: 5 – 6 mm, Welding Pressure: 300 – 500 g, Welding Distance: Adjustable.	1				
		NETWORK CABLE TESTER <i>UNI-T UT681C, NOYafa NF-8209, or Equivalent</i>					

3	7	Supported Cables: RJ45 (Ethernet), RJ11 (Telephone), Features: Wire mapping, PoE testing, length measurement, fault location (open, short, cross), Display: LCD.	2				
3	8	PEN-TYPE DIGITAL MULTIMETER <i>UNI-T UT118C Pen-Type Meter or Equivalent</i> Display: 3000/6000 count EBTN LCD, AC/DC Voltage Range: up to 600V, Resistance/Capacitance measuring, Features: NCV (Non-Contact Voltage), Phase sequence test, Gold-plated test leads, Auto power off.	5				
3	9	DIGITAL CLAMP METER <i>UNI-T (UT203+) or Equivalent</i> The UNI-T UT203 is a compact 400A AC/DC digital clamp multimeter featuring a 28mm jaw and auto-ranging capabilities. It measures AC/DC current up to 400A, voltage up to 600V, resistance to 40MΩ, and frequency up to 1MHz. Built for safety and convenience, it includes a 3999-count display, data hold, relative zeroing mode, and continuity testing.	5				
Total Amount of the lot (Rs.)							

Lot # 04 - lot & Instrumentation Lab Hardware Tools

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
4	1	PROFESSIONAL TOOL SET <i>INGCO (HKTHP21171) or Equivalent</i> 117 Pcs Tools set. Must contain all necessary tools including hammer, 3 pliers, cutter, saw	1				
4	2	12 V DRILL WITH COMBO KIT <i>INGCO (CKLI1201) or Equivalent</i> For screwdriving and drilling. With adjustable torque setting and hammer feature. Lithium-Ion Cordless 2-Pc. Combo Kit	1				
4	3	MINI DRILL/GRINDER <i>INGCO (MG13328) or Equivalent</i> 130W, Variable Speed +109 Pcs Accessories	1				
4	4	HOT GUN <i>INGCO (HG200078) or Equivalent</i> Variable speed and temperature (120°C–500°C), LCD display.	2				
4	5	GLUE HOT GUN <i>INGCO (GG308) or Equivalent</i> Voltage:220-240V~50/60Hz Input power:30W(220W) Gluing capacity:20-30g/min Glue stick diameter:11.2mm	2				
4	6	ELECTRIC PRECISION SCREWDRIVER <i>Mi or Equivalent</i> Two-speed adjustable torque / magnetic absorption nano-bits, S2 steel precision bits	4				
4	7	2 IN 1 – VACUUM CLEANER AND ASPIRATOR BLOWER <i>INGCO, Total or Equivalent</i> 800w, Variable speed with different nozzles for easy blowing and vacuuming	1				
4	8	AUTOMATIC 3 IN 1 WIRE STRIPPER <i>INGCO (HWSP102418) or Equivalent</i> Adjustable wire gauge, durable sharp blades for stripping, cutting, and crimping	2				
4	9	WIRE STRIPPER <i>INGCO (HWSP851) or Equivalent</i>	6				
4	10	PCB BOARD CUTTERS/PLIER <i>Plato 170 or YTH 037 or Equivalent</i> to cut PCB sheets, Vero Boards	2				
4	11	DIGITAL VERNIER CALIPER <i>Shahe Electronic or Equivalent</i> Metal 6-Inch 150mm, Measuring range: 0 – 150 mm / 0 – 6-inch, Resolution: 0.01 mm / 0.0005 inch.	4				
4	12	RATCHETING SCREWDRIVER SET WITH ROTATABLE RATCHET HANDLE MAGNETIC <i>INGCO or any other</i> The INGCO AKISD1208 is a 13-in-1 ratcheting screwdriver featuring an adjustable-angle handle, a 3-position magnetic ratchet, and built-in storage for its 12 included bits.	2				

4	13	PROFESSIONAL CABLE CRIMPING KIT <i>Crimping Kits for JST, Dupont, and Ferrules or Equivalent</i> Compatibility: JST, Dupont (2.54mm), and Ferrules, Mechanism: Ratcheting action for consistent crimps, Material: High-carbon steel jaws, Accessories: Assorted connector box and wire stripper included.	2				
4	14	CORDLESS DRILL <i>Ingco Compact Brushless Cordless Drill 20v CDLI20668 or Equivalent</i> Brushless motor, Voltage: 20V, No-load speed: 0-500/0-2000rpm, Max torque: 66Nm, Metal chuck capacity: 13mm, Torque settings: 22+1, Mechanical 2-speed gear, Spindle lock function, Integrated LED work light. Includes 47 Pcs accessories, 2x 2.0Ah battery packs (FBLI20011), and 1x charger (FCLI2001).	1				
4	15	PCB DRILL <i>Mini Electric Drill Machine PCB Drill Grinder Set with Adapter</i> PCB Electric Drill Grinder Machine Kit	2				
4	16	MEASUREMENT INSTRUMENT <i>Digital Water PH Tester, 0-14 Measuring Value, 0.01 High Accuracy PH Meter</i> Pen-style handheld pH meter. 0.00-14.00 pH measurement range. ATC (Auto Temperature Compensation) with LCD display.	5				
Total Amount of the lot (Rs.)							

Lot # 05 - lot & Instrumentation Lab Printer

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
5	1	COLOR PRINTER (LASER) <i>HP, EPSON or equivalent</i> Colour LaserJet. 3 in 1 Wireless Printing & Scanning	1				
5	2	LABELING MACHINE <i>Casio (KL-820) or Equivalent</i> Labeling width up to 12mm. Thermal transfer printing technology. 15-character, 1-line LCD display. 180 dpi resolution. Compatible with TZe tapes (up to 12mm in width). Built-in cutter for accurate label cutting.	1				
Total Amount of the lot (Rs.)							

Lot # 06 - lot & Instrumentation Lab 3D Printer

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
6	1	3D PRINTER <i>Creality K2 Pro Combo 3D Printer or Equivalent</i> Printing Technology: FDM, Build Volume: 350 × 350 × 350 mm, Max Printing Speed: ≤ 600 mm/s, Max Acceleration: 30,000 mm/s ² , Extruder: All-metal direct drive with active extrusion control Nozzle Temperature: ≤ 350°C, Build Surface: PEI flexible build plate, Leveling Mode: Hands-free auto leveling with automatic belt tensioning, Supported Filaments: Multi-color printing (up to 16 colours) via CFS; includes PLA-CF, ABS, PLA, PETG, TPU, ASA, PA-CF, PET-CF, and high-performance engineering filaments, Camera System: 1080p chamber camera plus toolhead AI camera for precision inspection	1				
6	2	3D PRINTER FILAMENTS <i>PLA-CF, PETG, PA-CF, TPU</i> Category A: Multi-Color/General Purpose (CFS Compatible) • Materials: PLA-CF (Carbon Fiber) and PETG. • Quantity: For each material type, a total of five (5) rolls shall be supplied, with each roll weighing 1 kg. The five rolls shall consist of one roll each in Black, Blue, Red, Gray, and White, resulting in a total of 10 filament rolls (1 kg each) across these two material types. Category B: High-Performance Engineering (Direct Feed) • Materials: PA-CF (Nylon Carbon Fiber) and TPU. • Quantity: For each material type, a total of five (5) rolls shall be supplied, with each roll weighing 1 kg. The five rolls shall consist of one roll each in Black, Blue, Red, Gray, and White, resulting in a total of 10 filament rolls (1 kg each) across these two material types. Total Procurement: 20 filament rolls (1 kg each) across four material types.	20				
Total Amount of the lot (Rs.)							

Lot # 07 - Battery Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
7	1	UNIVERSAL BATTERY CHARGER <i>LiitoKala (Lii-S12) or Equivalent</i> Should be capable of charging most types of batteries. e.g., D Battery, C Battery, AA Battery, AAA Battery, 9V Battery, Button cell, 21700Li-ion, 18650Li-ion, 16340Li-ion	3				
7	2	BATTERY TESTER <i>ANENG (168Max) or Equivalent</i> Should be capable of assessing all types of batteries e.g. D Battery, C Battery, AA Battery, AAA Battery, 9V Battery, Button cell, 21700Li-ion, 18650Li-ion, 16340Li-ion	4				
7	3	AUTOMOTIVE / LEAD-ACID BATTERY TESTER <i>UNI-T UT673A Battery Tester or Equivalent</i> Supported Batteries: 12V cranking lead-acid batteries, Capacity Range: 30-200 Ah, Test Standards: CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, Features: Battery health test, cranking test, charging system test.	4				
Total Amount of the lot (Rs.)							

Lot # 08 - IoT Boards Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
8	1	MICROCONTROLLER BOARD <i>Arduino UNO R3 or Equivalent</i> Microcontroller: ATmega328P, Operating Voltage: 5V, Input Voltage: 7-12V, Digital I/O Pins: 14 (6 provide PWM output), Analog Input Pins: 6, Flash Memory: 32KB, Clockspeed: 16MHz	20				
8	2	SINGLE BOARD COMPUTER <i>Raspberry Pi 5 or Equivalent</i> Processor: Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, RAM: 4GB/8GB LPDDR4X, Connectivity: Dual-band 802.11ac Wi-Fi, Bluetooth 5.0, Gigabit Ethernet, Ports: 2x USB 3.0, 2x USB 2.0, 2x micro-HDMI.	10				
8	3	ESP32 WI-FI & BLUETOOTH MODULE <i>Espressif ESP32-WROOM-32D or Equivalent</i> Chip: ESP32-D0WD, Flash: 4MB/8MB/16MB, Wi-Fi: 802.11 b/g/n, Bluetooth: v4.2 BR/EDR and BLE, Interfaces: UART, SPI, SDIO, I2C, LED PWM, Motor PWM, I2S, IR, GPIO, capacitive touch sensor, ADC, DAC.	10				
8	4	RFID / NFC DEVELOPMENT MODULE <i>NXP PN532 or MFRC522 Modules or Equivalent</i> Operating Frequency: 13.56 MHz, Supported Protocols: ISO/IEC 14443A/MIFARE, Interface: SPI, I2C, and UART (PN532), Operating Voltage: 3.3V (MFRC522) to 5V (PN532).	10				
8	5	SOLDER PASTE SYRINGE <i>sn63pb37 Solder Paste or Mechanic Solder Paste in Syringe or Equivalent</i> Alloy: 63% Tin (Sn) / 37% Lead (Pb), Melting Point: 183°C (Eutectic), Flux Type: Rosin Mildly Activated (RMA) or No-Clean, Micron Size: Type 3 or Type 4 (20-45 microns), Packaging: Syringe.	50				
8	6	PCB FABRICATION <i>Silver Conductive Ink Pen</i> Conductive silver-based ink pen for drawing or repairing traces on PCBs and flexible circuits. Rapid drying at room temperature.	10				
8	7	HMI DISPLAYS <i>7 Inch 800*480 TJC Capacitive Touch HMI Serial Interface Display For Arduino and Raspberry Pi</i> Nextion/TJC compatible intelligent serial display. 800x480 resolution with capacitive touch interface. Connects via UART.	5				
8	8	DISPLAY MODULES <i>0.96 Inch 128x64 IIC I2C OLED Blue Display Module For Arduino</i>	10				

		Monochrome (Blue) OLED display. 128x64 pixels. I2C serial interface. Operating voltage 3.3V to 5V.					
8	9	DISPLAY MODULES <i>Raspberry Pi 3.2 inch Touch Screen TFT LCD Display 320x240</i> Resistive touch TFT screen designed for Raspberry Pi GPIO pins. 320x240 resolution. SPI interface.	10				
8	10	SENSORS <i>37 in 1 Sensor Kit Sensors Module Board Set For Arduino</i> Comprehensive assortment of 37 standard digital and analog sensor modules (e.g., sound, light, temperature, motion, relays) for microcontroller prototyping.	10				
8	11	PCB FABRICATION <i>A4 Size PCB Thermal Transfer Paper for Project PCB Making</i> Toner transfer paper sheets sized A4. Specially coated to cleanly release laser-printed toner onto copper clad boards via heat pressing.	500				
8	12	MICROCONTROLLERS / IOT <i>ESP32-CAM WiFi Bluetooth Camera Module Development Board ESP32 with Camera Module OV2640 2MP or Equivalent</i> Ultra-small 802.11b/g/n Wi-Fi + BT/BLE SoC module. Includes OV2640 2 Megapixel camera module and built-in TF card slot.	10				
8	13	MICROCONTROLLERS / IOT <i>ESP32 / ESP32-C3 WiFi+Bluetooth 5.0 Internet Of Things Dual Type-C Development Board Core Board ESP32-C3-DevKitM-1 For Arduino or Equivalent</i> RISC-V single-core 32-bit MCU module. Supports Wi-Fi 4 and Bluetooth 5 (LE). Includes Type-C USB interface for flashing and power.	10				
8	14	MICROCONTROLLERS / IOT <i>ESP32 S3 N16R8 Development Board WiFi + Bluetooth MCU Module or Equivalent</i> Xtensa dual-core 32-bit LX7 microprocessor. Integrates 2.4 GHz Wi-Fi and Bluetooth LE. 16MB Flash and 8MB PSRAM configurations.	10				
8	15	MICROCONTROLLERS / IOT <i>ESP32 WROOM-32 38-pins Wifi+Bluetooth MCU Module or Equivalent</i> Standard ESP32-D0WDQ6 chip. Dual-core Xtensa 32-bit LX6 microprocessor. 4MB Flash, integrated Wi-Fi 802.11 b/g/n and Bluetooth v4.2 BR/EDR and BLE. 38-pin layout.	10				
		WIRELESS MODULES <i>HC-06 Bluetooth Module for Arduino or Equivalent</i>					

8	16	Serial port Bluetooth 2.0 module. Configured as slave default. TTL serial interface for simple wireless microcontroller communication.	10				
8	17	MICROCONTROLLERS / IOT <i>ESP32-S3 CAM Development Board with OV3660 Camera IOT Based Cam Module or Equivalent</i> Advanced ESP32-S3 chip (Xtensa dual-core 32-bit LX7) designed for AI/ML tasks. Includes 3-Megapixel OV3660 camera and PSRAM for high-performance computer vision projects.	10				
Total Amount of the lot (Rs.)							

Lot # 09 - Digital Soldering / Imaging Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
9	1	SOLDERING STAND WITH DIGITAL MICROSCOPIC CAMERA <i>Andonstar (AD249S-M Plus 10.1') or Equivalent</i> 10.1-inch HD screen, adjustable magnification, HDMI output, and integrated LED lighting for precision visual inspection.	1				
9	2	THERMAL IMAGING CAMERA <i>UNI-T UTi260B, Flir TG165-X, or Equivalent</i> IR Resolution: 256x192 pixels (or comparable), Temperature Range: -20°C to 400°C, Thermal Sensitivity: <50mK, Display: LCD screen, PC Software analysis support, Image Capture: SD card storage.	1				
Total Amount of the lot (Rs.)							

Lot # 10 - DLD Lab Trainer Board and CNC Cutting & Engraving Equipment

Lot #	Sr No.	Name of Item / Specifications	Qty. Reqd.	Rate per Unit (Rs.)	GST (if applicable) per Unit (Rs.)	Rate per Unit with GST (Rs.)	Total Amount (Rs.)
10	1	DIGITAL LOGIC TRAINER BOARD <i>K&H MFG CIC-500 Digital Logic Lab or Equivalent</i> Power Supply: Fixed DC +5V, Variable DC 0 to +15V and 0 to -15V, Clock Generator: 1Hz to 1MHz, Switches: 8 data switches, 2 pulser switches Displays: 8 LED indicators, 2 seven-segment displays, Breadboard: Tie points for custom circuits.	2				
10	2	DESKTOP CNC ROUTER (CNC CUTTING & ENGRAVING) <i>TwoTrees TTC 3018S CNC Cutting Engraving Machine DIY Kit or Equivalent</i> Working Area: 300 x 180 x 45 mm, Spindle: 775 Spindle Motor (10,000 RPM), Control System: GRBL (Compatible with Candle and standard G-Code senders), Material Compatibility: PCB (FR4), Wood, Acrylic, PVC, Soft Plastics, Soft Aluminum (with low feed rates), Frame Construction: Aluminum profile with durable resin/bakelite components, Supported Software: Easel, Fusion360, Vectric, and standard CAM software	2				
Total Amount of the lot (Rs.)							

SUMMARY OF FINANCIAL OFFER(S) LOT WISE

Total Quoted Amount for the Lot 1 (Rs.)	
Total Quoted Amount for the Lot 2 (Rs.)	
Total Quoted Amount for the Lot 3 (Rs.)	
Total Quoted Amount for the Lot 4 (Rs.)	
Total Quoted Amount for the Lot 5 (Rs.)	
Total Quoted Amount for the Lot 6 (Rs.)	
Total Quoted Amount for the Lot 7 (Rs.)	
Total Quoted Amount for the Lot 8 (Rs.)	
Total Quoted Amount for the Lot 9 (Rs.)	
Total Quoted Amount for the Lot 10 (Rs.)	

Grand Total Amount of all quoted Lot(s) (Rs.)	
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Rate(s) of Taxes applied

i. _____%

ii. _____%

iii. _____%