Women University of Azad Jammu and Kashmir Bagh

T-01(Estb)
(2026-27)

Bidding Documents for Supply & Installation, Commissioning of IT Equipment, CCTV Cameras, Sound Systems and Network Infrastructure

Purchase Section,

Admin Block, Banipasari, Women University of Azad Jammu and Kashmir Bagh
Phone: 05823-960038
Mobile# 03008354903
E-mail: naeem@wuajk.edu.pk

NVITATION TO BID

Women University of Azad Jammu and Kashmir Bagh, a public sector university, invites sealed bids from original suppliers and authorized dealers who are registered with the Income Tax and Sales Tax Departments and are listed as active taxpayers, for the supply, installation, testing, and commissioning of IT Equipment, CCTV Cameras, Sound Systems and Network infrastructure for the Academic Block/Central Library.

2. Bidding document, which contains detailed terms and conditions, is available on the University's website www.wuajk.edu.pk . Additionally, the bid document can be obtained from the Office of the Deputy Director Finance Women University of AJ&K, Bagh.
3. The price of the bidding document is Rs. 3,000/-, payable in the form of a pay order or demand draft in favor of the Treasurer, Women University of Azad Jammu and Kashmir Bagh, which should be enclosed with the bid.
4. According to AJKPPRA Rule No. 36(a), a single-stage one-envelope procedure shall be followed.
5. Bidders are required to submit Rs. 1,000,000/- (Rupees One Million Only) as bid security in the form of a pay order or demand draft in favor of the Treasurer, Women University of Azad Jammu and Kashmir Bagh.
6. "Blacklisted suppliers, authorized dealers, and bidders are prohibited from participating." All bidders must provide an affidavit or certificate confirming that they are neither blacklisted nor in conflict with the government anywhere in the territory of the AJK, Federally Administrated Areas, or the Islamic Republic of Pakistan.
7. A pre bid meeting will be held on **November 24, 2026 at 02:00 PM** at the Treasurer's Office, Admin Block Women University of AJ&K Bagh. Interested bidders are requested to attend this meeting.
8. Bids, prepared in accordance with the instructions in the bidding documents, must reach the office of the Deputy Director Finance Women University of AJ&K, Bagh, on or before **December 09, 2026, at 02:00 P.M**. Bids will be opened on the same day at **02:30 P.M.** at the Treasurer's Office, Admin Block, Women University of AJ&K Bagh, in the presence of the bidders or their representatives who choose to be present. If the scheduled bid submission/opening date falls on a public holiday, the next working day shall be deemed to be the bid submission/opening date. The time specified for bid submission/opening in the tender document/notice shall remain unchanged.
9. Evaluation Report/ Award of Contract will also be displayed on AJK PPRA's website.
10. This advertisement is also available on University's website on www.wuajk.edu.pk and on the AJK PPRA's website on http://ppra.ajk.gov.pk.

(**Naeem Asghar)**
Deputy Director Finance/

Secretary Central Purchase Committee,
Women University of AJ&K Bagh
Mobile# 0300-8354903, e-mail: naeem@wuajk.edu.pk

A. GENERAL

1B.1 Scope of Bid

Technical and financial bids are invited for the **Supply & Installation Commissioning of IT Equipment and Network Infrastructure for "FOR" basis at Academic Block Women University of AJ&K Bagh**

Bidders shall quote for the complete scope of work under a single LOT. Bids covering only a part of the scope of work under the LOT shall be rejected as non-responsive.

1B.2 Eligible Bidders

2.1 Bidding is open to all firms and persons duly qualified with following conditions:

1. Legal registration. The bidder shall be a firm or company registered with the Securities and Exchange Commission of Pakistan (SECP) or the Registrar of Firms. Copy of the registration certificate shall be attached.
2. Tax registration. The bidder shall be registered for National Tax Number (NTN) and Sales Tax and shall appear on the Active Taxpayers List of the Federal Board of Revenue on the date of bid submission. Registration with the relevant AJK tax authority shall be provided where required under applicable AJK rules. Copies of the certificates and the Active Taxpayer status shall be attached.
3. OEM authorization. The bidder shall be an authorized partner of the OEM for each quoted brand of active network equipment (core and access switches, WLAN controller and access points, firewall), UPS and CCTV system. A Manufacturer Authorization Letter (MAL), specific to this tender and addressed to the University, shall be attached for each brand.
4. OEM support in Pakistan. The OEM of the quoted active network equipment shall have an established office or authorized service and support presence in Pakistan for at least the last [three] years, with a hardware replacement depot or replacement arrangement in Pakistan. Evidence shall be attached.
5. OEM standing. The OEM of the quoted core and access switches, WLAN equipment and firewall shall be listed in the latest Gartner Magic Quadrant, IDC MarketScape or an equivalent recognized industry report for Enterprise Wired and Wireless LAN Infrastructure or Network Firewalls, as applicable.
6. Similar work experience. The bidder shall have successfully completed at least two campus or enterprise network projects within the last five years.

IB.3 Cost of Bidding

3.1 The bidder shall bear all costs associated with the preparation and submission of its bid and the University will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

IB.4 Contents of Bidding Documents

4.1 In addition to Invitation for Bids, the Bidding Documents are stated below.

1. Instructions to Bidders

2. Bidding Data

3. Conditions of Contract

4. Qualification Criteria & Standard Forms:

   (i) Supplier Information & Evaluation Forms (F-01)
   (ii) Form of Bid Security (Letter of Offer) (F-02)
   (iii) Performance Security (Bank Guarantee) (F-03)

5. Specifications

IB.5 Clarification of Bidding Documents

5.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the University at the University's address indicated in the Bidding Data.

IB.6 Amendment of Bidding Documents

6.1 At any time prior to the deadline for submission of Bids, the University may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.

6.2 Any Addendum issued pursuant to Sub-Clause 6.1 hereof shall form an integral part of the Bidding Documents and shall be communicated to the Bidders through the University's official website (www.wuajk.edu.pk). Bidders are advised to regularly visit the University's website to remain informed of any Addenda, amendments, clarifications, or other updates relating to the Bidding Documents.

C. PREPARATION OF BIDS

IB.7 Language of Bid

7.1 The bid prepared by the bidder and all correspondence and documents relating to the Bid, exchanged by the bidder and the University shall be written in the English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

IB.8 Documents Comprising the Bid

8.1 The bid prepared by the bidder shall comprise the following components:

(a) Covering Letter

(b) Form of Bid duly filled, signed and sealed,

(d) Bid Security furnished in accordance with Clause IB.13.

(e) Power of Attorney in accordance with Sub-Clause IB 14.5.

(f) Documentary evidence in accordance with Clause IB.11
(g) Documentary evidence in accordance with Clause IB.12.

IB.9 Sufficiency of Bid

9.1 Each bidder shall satisfy himself before Bidding as to the correctness and sufficiency of his Bid and of the rates and prices entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the Works.

9.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works.

IB.10 Bid Prices, Currency of Bid and Payment

10.1 The bidder shall quote the Prices indicating the unit rates and prices of the Works to be performed under the Contract.

10.2 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.

10.3 The unit rates and prices should be quoted by the bidder on FOR at WUAJ&K Bagh basis.

10.4 The quoted rates shall be inclusive of all applicable taxes, duties, levies, and other statutory charges

IB.11 Documents Establishing Bidder's Eligibility and Qualifications

11.1 Pursuant to Clause IB.8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

11.2 Bidder/Manufacturer must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria stipulated in the Bidding Documents.

IB.12 Documents Establishing Works' Conformity to Bidding Documents

12.1 The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation as set out in Bidding Data.

12.2 The bidder shall note that standards for workmanship, material and equipment, and reference to brand names or catalogue numbers, if any, designated by the University in the Technical Provisions are intended to be descriptive only and not restrictive.

IB.13 (a) Bid Security

13.1 Each bidder shall furnish, as part of his bid, a Bid Security @ stipulated in Bidding Data in Pak. Rupees in the shape of Bank draft issued by a Scheduled Bank in Pakistan in favour of the University.

13.2 Any bid not accompanied by an acceptable Bid Security shall be rejected by the University as non-responsive.

13.3 The bid securities of unsuccessful bidders will be returned upon award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier.

13.4 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security, pursuant to Clause IB.21 and signed the Contract Agreement, pursuant to Sub-Clauses IB.20.2 & 20.3.

13.5 The Bid Security may be forfeited:

(a) If a bidder withdraws his bid during the period of bid validity; or

(b) If a bidder does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) hereof; or

(c) In the case of a successful bidder, if he fails to:

(i) Furnish the required Performance Security in accordance with Clause IB.21, or

(ii) Sign the Contract Agreement, in accordance with Sub-Clauses IB.20.2 & 20.3.

IB.13(b)Validity of Bids, Format, Signing and Submission of Bid

13.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.

13.2 All Schedules to Bid are to be properly completed and signed.

13.3 No alteration is to be made in the Form of Bid except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.

13.4 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialed and official seal be affixed by the person or persons signing the bid.

13.5 The Bid shall be delivered in person or sent by registered mail at the address to University as given in Bidding Data.

D. SUBMISSION OF BID

IB.14 Deadline for Submission, Modification & Withdrawal of Bids

14.1 Bids must be received by the University at the address/provided in Bidding Data not later than the time and date stipulated therein.

14.2 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.

14.3 Any bid received by the University after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.

14.4 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the University prior to the deadline for submission of bids.

14.5 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to Sub-Clause IB.13.5 (a).

14.6 Conditional offer shall not be entertained.

14.7 The quotation received with over-writing, cutting, mutilation and doubtful figure will be rejected.

14.8 Shortest completion period should be stated clearly, if goods are required urgently, preference would be given to ex-stock offer.

14.9 All bids submitted must be complete in every respect. The bidder shall sign each document including drawings. The bids found incomplete shall be considered **Non Responsive** and shall be rejected.

14.10 Goods offered should be of the competitive rate, quality, confirming to stipulated specifications and verifiable form manufacturer.

14.11 Cost of equipment will include cost of accessories, which must be listed by the supplier.

15.1 General Instructions for FOR:

15.2 Please quote rates for the supply & installation commissioning of required items with complete accessories Academic Block Women University of AJ&K Bagh basis described in the bidding document.

15.3 The envelope containing your quotation should be sealed and addressed to Deputy Director Finance (Purchase), Admin Block, Bani Pasari, Women University of AJ&K Bagh and the following should be written on the envelope:

Tender Ref #: T-01(Estb.) 2026-27

Tender Title: **Supply & Installation Commissioning of IT Equipment and Network Infrastructure.**

Bid opening date: **09-12-2026 at 02:30 P.M.**

15.4 The evidence of the equipment eligibility shall be established to the purchaser's satisfaction. A certificate from the manufacturer and complete technical literature/brochure (English version only) will satisfy the requirement of this clause.

15.5 Weight, volume and packing should be mentioned.

15.6 Your quotation must enclose with necessary literature/specification of the offered equipment (if available).

15.7 The catalogue of the equipment offered by you may also be provided to us along with the offer. Operational and services manual must be supplied with the equipment in English language (if available).

15.8 The equipment should be operate-able with 220 – 240 volt AC power, 50 Hz wherever

electrically operated equipment is involved.

15.9 Complete training of the equipment as per technical requirement will be arranged by the supplier at Women University of AJ&K Bagh.

15.10 Warranty: The supplied items shall carry a minimum warranty as mentioned against each item in bid document, if there is no warranty mentioned against the items in bid document the minimum warranty will be **12 months or the manufacturer's standard warranty period, whichever is longer**

E. BID OPENING AND EVALUATION

IB.16 Bid Opening, Clarification and Evaluation

16-A Procedure for opening competitive bids: (Single stage-one envelopes procedure) Rule **36(a)**

(i) The bid shall comprise a single package containing single envelope.

(ii) The bid shall be submitted to the Deputy Director Finance (Purchase), Admin Block, Bani Pasari, Women University of AJ&K Bagh.

(iii) The procuring agency shall evaluate the proposal in a manner prescribed in advance, and reject any proposal which does not conform to the specified requirements;

(iv) During the evaluation no amendments in the proposal shall be permitted;

(v) Most advantageous bidder as per PPRA shall be awarded the contract.

16.1 The committee will open Bid, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data.

16.2 The bidder's name, Bid Prices, any discount, the presence or absence of Bid Security, and such other details as the University at its discretion may consider appropriate, will be announced by the committee at the bid opening. The committee will record the minutes of the bid opening. Representatives of the bidders who choose to attend shall sign the attendance sheet.

Any Bid Price or discount which is not read out and recorded at bid opening will not be taken into account in the evaluation of bid.

16.3 To assist in the examination, evaluation and comparison of Bids the committee may, at its discretion, ask the bidder for a clarification of its Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

16.4 (a) Prior to the detailed evaluation, pursuant to Sub-Clauses IB.16.7 to 16.9, the University will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. It will include determining the requirements listed in Bidding Data.

(b) Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Bid

price entered in Form of Bid and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Bid will be corrected by the University in accordance with the Corrected Schedule of Prices.

(c) If the bidder does not accept the corrected amount of Bid, his Bid will be rejected and his Bid Security forfeited.

16.5 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.

16.6 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation may be waived by University , provided such waiver does not prejudice or affect the relative ranking of any other bidders.

16.7 The University will evaluate and compare only the bids previously determined to be substantially responsive pursuant to Sub-Clauses IB.16.4 to 16.6 as per requirements given hereunder. Bids will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Bid Price pursuant to Sub-Clause 16.8 herein below.

(a) Technical Evaluation

It will be examined in detail whether the Works specification offered by the bidder complies with the Technical Provisions of the Bidding Documents. For this purpose, the bidder's data submitted with the bid specification will be compared with technical features/criteria of the Works detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work specification will also be reviewed.

(b) Commercial Evaluation

It will be examined in detail whether the bids comply with the commercial/contractual conditions of the Bidding Documents. It is expected that no deviation/ stipulation shall be taken by the bidders.

16.8 Evaluated Bid Price

In evaluating the bids, the University will determine for each bid in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Bid Price:

(i) Making any correction for arithmetic errors pursuant to Sub-Clause 16.4 hereof.

(ii) Making an appropriate price adjustment for any other acceptable variation or deviation.

(iii) Making an appropriate price adjustment for Deviations in terms of Payments (if any and acceptable to the University).

(iv) Discount, if any, offered by the bidders as also read out and recorded at the time of bid opening.

16.9 Evaluation Methods

Pursuant to Sub-Clause 16.8, Para (ii), and (iii) following evaluation methods for price adjustments will be followed:

(i) Price Adjustment for Technical Compliance

The cost of making good any deficiency resulting from technical non compliance will be added to the Corrected Total Bid Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other bidders being evaluated in detail in their original Bids for corresponding item. In case of non availability of price from other bidders, the price will be estimated by the University .

(ii) Price Adjustment for Commercial Compliance.
The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Bid Schedules and Conditions of Contract, as determined by the University will be added to the Corrected Total Bid Price for comparison purpose only. Adjustment for

Commercial compliance will be added to the Corrected Total Bid Prices.

(iii) Price Adjustment for Deviation in Terms of Payments

(iv) Refer to Bidding Data

IB.17 Process to be Confidential

17.1 Subject to Sub-Clause IB.16.3 heretofore, no bidder shall contact University on any matter relating to its Bid from the time of the Bid opening to the time the bid **evaluation result is announced by the University . The evaluation result shall be announced on AJKPPRA's website at least ten (15) days prior to award of Contract.** The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated.

17.2 Any effort by a bidder to influence University in the Bid evaluation, bid comparison or Contract Award decisions may result in the rejection of his Bid. **Whereas, any bidder feeling aggrieved may lodge a written complaint not later than ten (10) days after the announcement of the bid evaluation result, however, mere fact of lodging a complaint shall not warrant suspension of procurement process.**

F. AWARD OF CONTRACT

IB.18. Post Qualification

18.1 The University , having credible reasons for or a prima facie evidence of any defect in bidders' capacities, will determine to its satisfaction that the substantially responsive, lowest evaluated bidder, whether already pre-qualified or not, is qualified to satisfactorily perform the Contract in accordance with Qualification Criteria stipulated in the Bidding Documents.

18.2 The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidders' qualifications submitted under Clause IB.11, as well as such other information required in

the Bidding Documents.

IB.19 Award Criteria & University's Right

19.1 Subject to Sub-Clause IB.19.2, the University will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be qualified to satisfactory perform the Contract in accordance with the provisions of Clause IB.18.

19.2 Not with standing Sub-Clause IB.19.1, the University reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the University 's action except that the grounds for its rejection of all bids shall upon request be communicated, to any bidder who submitted a bid, without justification of the grounds. Notice of the rejection of all the bids shall be uploaded promptly on AJKPPRA's website.

IB.20 Notification of Award & Signing of Contract Agreement

20.1 Prior to expiration of the period of bid validity prescribed by the University, the University will notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted.

20.2 **Within seven (7) days from the date of furnishing** of acceptable Performance Security under the Conditions of Contract, the University will send the successful bidder the Form of Contract Agreement or issue supply order.

20.3 The formal Agreement between the University and the successful bidder shall be executed **within seven (7) days of the receipt of Form of Contract** Agreement by the successful bidder from the University.

IB.21 Performance Security

21.1 The successful bidder shall furnish to the University a Performance Security in the form and the amount stipulated in the Conditions of Contract within **a period of Ten (10) days after the receipt of Letter of Acceptance.**

21.2 Failure of the successful bidder to comply with the requirements of Sub-Clauses IB.20.2 & 20.3 or 21.1 or Clause IB.22 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.22 Integrity Pact

The Bidder shall sign and stamp the Form of Integrity Pact provided at Schedule- F to Bid in the Bidding Document for all Federal Government procurement contracts exceeding Rupees ten (10) million. Failure to provide such Integrity Pact shall make the bid non-responsive.

Note: Rates should be quoted on prescribed form with sign & stamp.

Instructions to Bidders

Clause Reference

1. **Name of University**
   Women University of Azad Jammu and Kashmir Bagh (WUAJ&K Bagh)

2. **Brief Description of Works**
   Supply & Installation Commissioning of IT Equipment and Network Infrastructure. as per given specifications.

3. (a) University ’s address:
   The Deputy Director Finance (Purchase),
   Women University of AJ&K Bagh
   Phone # 05823-960038, Mobile# 0300-8354903
   Email: naeem@wuajk.edu.pk Web: www.wuajk.edu.pk

4. The bidder/manufacturer has the financial, technical and production capability necessary to perform the Contract as follows:

   _____

   _____

   _____

5. (a) A detailed description of the Works, essential technical and performance characteristics.

   (b) Complete set of technical information, description data, literature and drawings as required in accordance with Schedule B to Bid, Specific Works Data. This will include but not be limited to a sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the works to be performed.

6. **Amount of Bid Security**

   Amount mentioned in invitation to bids in the shape of Bank draft/P.O in favor of The Treasurer, Women University of AJ&K Bagh.

   _____

7. **Period of Bid Validity**

The Bid should be valid for **120 days** from the dead line for submission of Bids as indicated below. Consequently, the Bid Security (as per clauses) shall also be valid for 120 days.

8. **Affidavit of the Bid to be submitted original.**

9. **(a) University 's Address for the Purpose of Bid Submission**

The Deputy Director Finance (Purchase),
Women University of AJ&K Bagh
Phone # 05823-960038, Mobile# 0300-8354903
Email: naeem@wuajk.edu.pk Web: www.wuajk.edu.pk

10. **Deadline for Submission of Bids**

02:00 P.M on **09-12-2026**

11. **Venue, Time, and Date of Bid Opening**

Venue: Treasurer Office
Admin Block Bani Pasari,
Women University of AJ&K
Bagh
Time: 02:30 P.M
Date: **09-12-2026**

12. **Responsiveness of Bids**

(i) The Bid is valid till required period,
(ii) The Bid prices are firm during currency of contract,
(iii) Completion period offered is within specified limits,
(iv) The Bidder/Manufacturer is eligible to Bid and possesses the requisite experience, capability and qualification.
(v) The Bid does not deviate from basic technical requirements and
(vi) The Bids are generally in order, etc.

CONDITIONS OF CONTRACT

GENERAL PROVISIONS
Definitions

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

The Contract

"Contract" means the Contract Agreement and the other documents listed in the Contract Data.

"Specifications" means the document as listed in the Contract Data, including University 's requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.

"Drawings" means the detailed engineering and construction drawings to be prepared and submitted by the contractor to the University.

"University" means the Women University of AJK Bagh named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.

"Contractor" means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the University) any assignee.

"Party" means either the University or the Contractor.

Dates, Times and Periods

"Commencement Date" means the date fourteen (14) days after the date the Contract comes into effect or any other date named in the Contract Data.

"Day" means a calendar day

"Time for Completion" means the time for completing the Works as stated in the Contract Data calculated from the Commencement Date.

Money and Payments

"Cost" means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.

Other Definitions

"Country" means the Islamic Republic of Pakistan.

"Variation" means a change which is instructed by the University

Priority of Documents
The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

Law

The law of the Contract is the relevant Law of Islamic Republic of Pakistan/AJ&K.

Communications

All Communications related to the Contract shall be in English language.

Statutory Obligations

The Contractor shall comply with the Laws of Islamic Republic of Pakistan/AJ&K and shall give all notices and pay all fees and other charges in respect of the Works.

CONDITIONS:

THE UNIVERSITY

1. **Provision of Site**

The University shall provide the Site and right of access thereto at the times stated in the Contract Data.

2. **Permits etc.**

The University shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals, which are required for the Works.

3. **University's Instructions**

The Contractor/supplier shall comply with all instructions given by the University , if notified by the University , in respect of the Works including the suspension of all or part of the Works.

4. **Approvals**

No approval or consent or absence of comment by the University shall affect the Contractor's obligations.

UNIVERSITY 'S REPRESENTATIVES

5. **Authorized Person**

The University shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the University shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

6. **University's Representative**

The name and address of University's Representative is given in Contract Data. However, the Contractor shall be notified by the University, the delegated duties and authority before the Commencement of Works.

THE CONTRACTOR

7. General Obligations

The Contractor/supplier shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials and Contractor's Equipment, which may be required.

8. Subcontracting

The Contractor/supplier shall not subcontract the whole of the Works. The Contractor shall not subcontract any part of the Works without the consent of the University.

9. Performance Security

The Contractor/supplier shall furnish to the University within fourteen (10) days after receipt of Letter of Acceptance a Performance Security in the form of Bank Draft **@ 10%** of the Purchase Order value which will be retained by the Institute for **12 Month** from the date of supply of equipment.

TIME FOR COMPLETION

10. Execution of the Works

The Contractor/supplier shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, within the Time for Completion.

11. Extension of Time

There will be no extension in time.

12. **Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the University for such failure shall be to pay the amount stated in the Contract Data for each month for which he fails to complete the Works.

13. Taxes will be managed according to Govt. Rules.

14. **Failure and Termination**

If you fail to deliver these goods/ Complete the Work or any part thereof within the specified delivery period the WUAJ&K Bagh shall be entitled at its option, either: -

i) To recover from you as a liquidated damages and not by way of penalty a sum of 2% of the price of all or any of these goods which you fail to deliver as a foresaid, for each month or part of a month during which the delivery of such goods may be in arrears.

OR

ii) **To purchase from elsewhere without notice to you, but at your risk and cost, the goods not delivered/supplied within the stipulated period and to recover excess value so paid from you or from your security deposit or from any of your outstanding bill amount.**

15- **Pre-Bid Meeting**

A pre bid meeting will be held on **November 24, 2026 at 02:00 PM** at the Treasurer's Office, Admin Block Women University of AJ&K Bagh. Interested bidders are requested to attend this meeting.

1. **Non-Mandatory Attendance:**
   Attendance at the pre-bid meeting is **not mandatory**, and absence shall **not** be considered a cause for disqualification of any bidder.
2. **Amendments After Pre-Bid Meeting:**
   The University reserves the right to **amend, modify, add, or delete** any specification, quantity, or item based on discussions held during the pre-bid meeting.
3. **Issuance of Revised Documents:**
   Any changes, clarifications, or addenda resulting from the pre-bid meeting shall be uploaded to the University's official website. These shall be considered an integral part of the bidding documents.
4. **Bidder's Responsibility to Stay Updated:**
   Bidders are responsible for **regularly visiting** the University's website and ensuring that they have obtained all updated information, corrigenda, and revisions before submitting their bids.
5. **No Separate Communication:**
   The University shall not be obligated to issue separate notices to bidders. Uploading revised information on the website shall be deemed sufficient communication.

Women University of AJ&K Bagh

Supplier Information & Evaluation Forms (COM/ F-01)

Evaluation Criteria-Mandatory Requirements

Sr. No.	Mandatory Criteria	Comply (Yes/No)
1	Firm has a Valid NTN Registration	Yes/No
2	Firm has a Valid GST Registration	Yes/No
3	Firm is active on ATL list of FBR/CBR (AJK)	Yes/No
4	Affidavit for non-blacklisting	Yes/No
5	Firm must submit Bid Security	Yes/No
6	Manufacturer / Distributor Authorization Letter verifiable from OEM	Yes/No
7	The bidder must meet the required technical specifications. Higher specifications than those mentioned will be acceptable; however, lower specifications will lead to bid rejection	Yes/No
8	Company Profile	Yes/No
9	Bidder must have deployment team on their own payroll for complete scope [both Ethernet and Fiber]. Complete detail	Yes/No
10	Bidder must have O&M Teams available for 24x7 Support for the critical Fiber Infrastructure of the campus	Yes/No
11	Bidder must have their operational and support office	Yes/No
12	Bidder must have fiber deployment and maintenance experience of 03 Years.	Yes/No
13	Major Projects/orders/supplies record of the last three years for such type of Equipment/work.(Copies of three supply orders/contracts, received by the bidder from public sector organizations)	Yes/No
14	An Affidavit duly attested by the Oath Commissioner/Notary Publics, showing that the firm is neither blacklisted nor involved in litigation with any Govt. / Semi Govt. Department.	Yes/No
15	Vendor agrees to provide the technical services free of charge for one year.	Yes/No

FORM OF BID SECURITY (F-02)

(LETTER OF OFFER)

Bid Reference No.

_____

_____

(Name of Works)

To:

_____

_____

_____

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Sketches, if any, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address
and being duly incorporated under the laws of Pakistan hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price of Rs .____(in words)_____) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of drawn in your favour or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.

4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.

5. We agree to abide by this Bid for the period of _____days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.

8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this _____day of _____, 2026

Signature

in the capacity of _____duly authorized to sign bid for and on behalf of

_____
(Name of Bidder in Block Capitals)
(Seal)

Address

_____

_____

_____

Witness:

(Signature)

Name:

Address:

_____

SPECIFICATIONS OF SUPPLY & INSTALLATION COMMISSIONING OF IT EQUIPMENT AND NETWORK INFRASTRUCTURE

Technical Specification.
LOT-01

S#	Item Name	Item with Specifications /Detail	QTY
1	48 Port Core Switch	**48 Port Core switch Cisco, Huawei or Equivalent** **Ports:** 48 x 10 Gig SFP+ (**10G base T** supported), 6 x 40/100 Gig QSFP28 (All ports support 40GE by default. can be support to upgrade with licenses to port rate from 40GE to 100GE). **Transceivers:** SFP+, 10G, Multi-mode Module LC 300-meter QTY: 3 along with Patch Cords. **Power:** Dual pluggable power modules. All the routing protocols for IPv4 and IPv6, VLANs and Advanced L3 routing (RIP v1/v2, OSPF v1/v2, IS-IS, and BGP) and M-LAG should be supported with complete futures. Forwarding performance: 485 Mpps, Switching capacity: 2.4Tbps. 03-Year NBD Standard warranty of HW/SW including Power supplies and accessories rack-mountable with installation and configuration complete in all respects. OR Higher Specification All listed features, including L3 routing protocols and M-LAG, must be licensed and active at delivery OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	02
2	Network Gigabit Access Switch 48 port	**48 Port Network Gigabit Managed Switch Cisco, Huawei or Equivalent** **Ports:** 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports with 2 × SFP+ 10G Direct Attach Cables (1–3 m) for switches installed in the datacenter with stacking cables SFP+,10G, High Speed Direct-attach Cable and rack mount kit. The **SFP+** slot supports 10 GE and 1 GE speeds with stacking and VLANs features. **Power:** Dual AC power Supplies. Forwarding performance: 130 Mpps, Switching capacity: 510 Gbps. 03-Year NBD Standard warranty of HW/SW including Power supplies and accessories rack-mountable with installation and configuration complete in all respects. OR Higher Specification OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	10
3	Multigiga bit PoE++ Access Switch, 24 port (for access points)	**24 Port Multigigabit PoE++ Managed Switch, Cisco, Huawei or Equivalent (same OEM as core switches and access points).** Ports: minimum 24 × 100M/1G/2.5G Base-T ports supporting IEEE 802.3af/at/bt (PoE/PoE+/PoE++), and 4 × 10GE SFP+ uplink ports. Stacking and VLAN support. Rack mount kit included. Forwarding performance: 140 Mpps Mpps, Switching capacity: 510 Gbps. PoE budget: minimum 720 W is usable with both power supplies installed, sufficient to power all connected access points at full radio functionality simultaneously. Bidder must state the PoE budget per power supply configuration.	5

		Power: dual hot-swappable AC power supplies. Performance: wire-speed, non-blocking forwarding on all ports. Features: Layer 2 switching with static routing, IEEE 802.1X, LLDP/LLDP-MED, QoS, IPv4/IPv6 management, SNMP v3, SSH. Manageable from the same network management system as the other switches. 03-Year NBD Standard warranty of HW/SW including power supplies and accessories, with installation and configuration complete in all respects. OR Higher Specification. OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	
4	Access Points-Heavy Duty (for gallery ,halls, open area)	**Enterprise indoor Access Point, Cisco, Huawei or Equivalent (same OEM as WLAN controller).** Standard: Wi-Fi 7 (IEEE 802.11be), backward compatible with 802.11ax/ac/n/a/b/g. Radios: dual-band, minimum 2.4 GHz 2x2 MIMO and 5 GHz 4x4 MIMO, with MU-MIMO, OFDMA,160 MHz channel support as permitted by local regulations, and Multi-Link Operation (MLO). If a tri-band (6 GHz) model is offered, 6 GHz operation must comply with PTA regulations. Maximum combined data rate: minimum 6.40 Gbps. Uplink: minimum 1 × 2.5GE (or higher multigigabit) Ethernet port. Power: IEEE 802.3bt or 802.3at. The bidder must state the power class needed for full functionality (all radios and all spatial streams active) and confirm that the offered PoE switch (Item 3) provides it. Clients: the bidder must state the maximum number of concurrent associated clients per AP, as published in the OEM datasheet. Security and roaming: WPA3 (Personal and Enterprise), IEEE 802.1X, 802.11k/v/r, minimum 15 SSIDs. Management: centrally managed by the supplied WLAN controller (Item 6); stand-alone or cloud management optional. Mounting: ceiling and wall mounting brackets included. 03-Year NBD Standard warranty of HW/SW, with installation, configuration and wireless coverage verification complete in all respects. OR Higher Specification. OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	15
5	Access Points	**Enterprise Next-generation indoor access point (AP) Cisco, Huawei or Equivalent** Standard: Wi-Fi 7 (IEEE 802.11be), backward compatible with 802.11ax/ac/n/a/b/g. Radios: dual-band, minimum 2.4 GHz 2x2 and 5 GHz 2x2., with	12

		MU-MIMO, OFDMA, 160 MHz channel support as permitted by local regulations, and Multi-Link Operation (MLO). If a tri-band (6 GHz) model is offered, 6 GHz operation must comply with PTA regulations. Maximum combined data rate: minimum 3.4 Gbps. Uplink: minimum 1 × 2.5GE (or higher multigigabit) Ethernet port. Power: must operate with full functionality on IEEE 802.3at (PoE+). The bidder must state the power class needed for full functionality (all radios and all spatial streams active) and confirm that the offered PoE switch (Item 3) provides it. Clients: the bidder must state the maximum number of concurrent associated clients per AP, as published in the OEM datasheet. Security and roaming: WPA3 (Personal and Enterprise), IEEE 802.1X, 802.11k/v/r, minimum 15 SSIDs. Management: centrally managed by the supplied WLAN controller (Item 6); stand-alone or cloud management optional. Mounting: ceiling and wall mounting brackets included. 03-Year NBD Standard warranty of HW/SW, with installation, configuration and wireless coverage verification complete in all respects. OR Higher Specification. OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	
6	Access Controller	**WLAN Controller Cisco, Huawei or Equivalent** support 802.11ax, 802.11ac,802.11n and 802.11be APs **Ports:** 2x10GE optical interfaces and 10xGE electrical interfaces with SFP+, 10G, Multi-mode Module LC 300-meter QTY: 2 along with Patch Cords. AP Resource Licenses QTY: 27 for centralized management of Access Points. **Forwarding capability:** 10 Gbit/s, Number of managed APs: 500, Number of access users: 4000, RADIUS/ TACACS/AD authentication, built-in Portal/AAA server and can provide Portal/802.1X authentication for users. Supports Layer 4 to Layer 7 application identification and can identify over 6000 applications, built-in web system management for monitoring and intelligent diagnosis of APs. QoS features: 802.1p priority, DRR, PQ+WRR scheduling, Centralized CAPWAP, 802.11k, 802.11r and 802.11v with Rack Mount kit. 03-Year NBD Standard warranty of HW/SW and accessories rack-mountable with installation and configuration complete in all respects. OR Higher Specification OEM must be Leaders in Gartner Wired and Wireless Report Year 2026	01
7	10 G SFP + Single Mode (OEM SFP)	10G SFP+ Single Mode. Optical Transceiver, SFP+, 10GE, Single-mode (10GBASE-LR), 1310 nm, LC duplex, 10 km. Same OEM brand as the switches. For connecting the core switches to access switches in other buildings over single-mode fiber:	70
8	10G SFP+	10G SFP+ RJ45 (Copper). Electrical Transceiver, SFP+, 10GBASE-	60

	RJ45 Copper Transceiver (OEM SFP)	T, RJ45, supporting at least 1GE and 10GE operation (2.5GE/5GE if available), for up to 30 m at 10GE on Cat-6A and up to 100 m at 1GE on Cat-6. Same OEM brand as the switches. For uplinks between the core switches and lab/floor switches over existing Cat-6 cabling: 2 transceivers at each lab/floor switch and 2 at the core switches. The bidder must confirm the maximum number of these transceivers supported per switch, since they draw more power and produce more heat than optical modules	
9	Firewall	Next Generation Firewall with IPS, Antivirus and Content Filtering services. It should also be equipped with licenses/ subscriptions for IPS, AV, App Control, IP reputation, Web Filtering, Antispam, AMP, and Mobile Security. Firewall throughput 48.0 Gbps or Higher Next-generation firewall IPS Interfaces (minimum): • 8 × 1GE RJ45 ports. • 8 × 10GE SFP+ ports. • 1 × dedicated management port. Storage: minimum 480 GB SSD for local logging, or an equivalent logging and reporting solution of the same OEM included with the bid. Connectivity to core: the firewall must connect to both core switches with 2 × 10GE links configured as one LACP link aggregation across the M-LAG core pair. WAN: the firewall must support connection to the internet service provider through either 1GE copper or 1GE/10GE fiber handoff. Subscriptions: all security licenses and subscriptions listed (IPS, Antivirus, Application Control, IP Reputation, Web Filtering, Antispam, Advanced Malware Protection, Mobile Security) must be supplied for 05 years from the date of commissioning. Sizing: the bidder must state the number of concurrent users the offered model supports with all security services enabled. This must be not less than 3,000.	1
10	10GE SFP+ Multimode Transceiver for Firewall (OEM SFP)	Optical Transceiver, SFP+, 10GE, Multimode (10GBASE-SR), 850 nm, LC duplex, minimum reach 300 m on OM3 / 400 m on OM4. Same OEM brand as the firewall. Purpose: connection of the firewall to the two core switches. At the core switch end, the 10GE multimode transceivers supplied with the core switches (Active Item 1) will be used. Warranty: same as firewall. OR Higher Specification.	2
11	1GE SFP Single-mode Transceiver for Internet	Optical Transceiver, SFP, 1GE, Single-mode (1000BASE-LX), 1310 nm, LC duplex, 10 km. Same OEM brand as the firewall. Purpose: connection of the firewall to the internet service provider's fiber handoff. To be supplied only if the service provider's handoff is fiber; if the handoff is copper Ethernet,	2

	(WAN) Connection (OEM SFP)	the firewall's 1GE RJ45 ports will be used and this item will not be required. Warranty: same as firewall. OR Higher Specification.	
12	40GE QSFP+ Direct Attach Cable for Core Switch M-LAG Peer-Link	40GE QSFP+ passive Direct Attach Copper (DAC) cable, 3 metre, of the same OEM brand as the core switches, or certified compatible by the core switch OEM. Purpose: two cables to form a 2 × 40GE aggregated M-LAG peer-link between the two core switches, using the QSFP28 ports of the core switches at 40GE. Must be fully supported on the offered core switch model without additional licences. If the bidder proposes 100GE QSFP28 DAC instead, the 100GE port licences for the peer-link ports on both core switches must be included. 03-Year warranty, same as core switches. OR Higher Specification.	2
13	10GE SFP+ Direct Attach Cable for Core Switch M-LAG Dual-Active Detection Link	10GE SFP+ passive Direct Attach Copper (DAC) cable, 3 metre, of the same OEM brand as the core switches, or certified compatible by the core switch OEM. Purpose: separate heartbeat link between the two core switches for M-LAG dual-active detection, independent of the peer-link. Required only if the offered core switch model uses a dedicated link for dual-active detection. The bidder must state the method used. 03-Year warranty. OR Higher Specification.	1
14	Rack Server for Network Services (AD, DNS, DHCP, RADIUS, NMS and Logging	2U rack server, Dell PowerEdge R760, HPE ProLiant DL380 Gen11, Lenovo ThinkSystem SR650 V3, Huawei Fusion cube DP2220 or **Equivalent**. Processor: 2 × Intel Xeon Silver 24-core (4th/5th Gen Scalable) or AMD EPYC equivalent, minimum 2.0 GHz base frequency. Memory: 128 GB DDR5 ECC RDIMM, expandable to minimum 1 TB. RAID controller: hardware RAID with minimum 4 GB cache, supporting RAID 0, 1, 5, 6 and 10. Storage 2 × 960 GB enterprise SSD in RAID 1 for operating system. 4 × 1.92 TB enterprise SSD in RAID 5 for virtual machines and logs. Hot-plug drive bays with minimum 4 bays free for future expansion. Network:	2

		4 × 1GE RJ45 ports. 2 × 10GE SFP+ ports, supplied with 2 × SFP+ 10G Direct Attach Cables (3 m) for connection to the two core switches. Management: dedicated out-of-band management port (iDRAC Enterprise, iLO Advanced, XClarity Enterprise or equivalent), with license for remote console and virtual media. Power: dual hot-plug redundant power supplies, minimum 800 W each, Platinum efficiency or higher. Accessories: sliding rail kit with cable management arm for installation in the supplied 42U racks. Warranty: 03-Year on-site NBD warranty on parts and labour, with retention of failed drives by the university (keep-your-drive). **Server Operating System and Client Access Licenses:** Microsoft Windows Server 2025 Standard (or latest version), licensed for all physical cores of both servers (minimum 48 core licenses per server, 96 core licenses in total). Hypervisor: socket based perpetual virtualization software should also be quoted for each server Client Access Licenses: 300 Windows Server 2025 Device CALs for lab and office computers. Licenses must be genuine, registered in the name of Women University of AJK, Bagh, and supplied with license certificates or volume licensing account access. OR Equivalent open-source solution (Proxmox VE or equivalent hypervisor; Samba Active Directory, ISC Kea DHCP, BIND DNS and Free RADIUS on Linux), configured with equal functionality. The bidder must clearly state which option is quoted. If the open-source option is quoted, the bidder must provide 03 years of installation support and configuration documentation. **Network Management System (NMS) Software License** Centralized network management software of the same OEM as the supplied switches, access points and WLAN controller (Huawei iMaster NCE-Campus / eSight, Cisco Catalyst Center or Equivalent). Installed on the supplied servers (Item 1) or as a hardware appliance included with the bid. License capacity: minimum 50 managed network devices, covering both core switches, all access switches, the WLAN controller and all 27 access points, with expansion capability to 200 devices. License term: perpetual license with 03-year software support and updates, or 03-year subscription, from the date of commissioning. Complete Installation and configuration of the servers, operating systems and software and training to IT staff of WUAJK OR **Higher Specification**	

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LOT-02

S#	Item Name	Item with Specifications /Detail	QTY
1.	UPS	Online double-conversion UPS, APC, Eaton, Vertiv, Huawei or Equivalent. Capacity: minimum 6 kVA / 6 kW (output power factor 1.0), or minimum 6.7 kVA where the output power factor is 0.9, so that real-power capacity is not less than 6 kW per unit. Configuration: two independent units. Each unit must be capable of carrying the full data center load of 4 kW alone. Dual-PSU equipment will be fed with one power supply from each UPS. Input: 230 V single phase, 50 Hz. Input voltage range minimum 160–280 V AC at full load without transferring to battery. Input power factor 0.99 or higher. Generator compatible. Output: 230 V AC, 50 Hz, pure sine wave. Voltage regulation within ±1%. Transfer time 0 ms (mains to battery). Efficiency: minimum 93% in online mode. Bypass: internal automatic static bypass, and an external manual maintenance bypass switch so the UPS can be serviced without shutting down the load. Protection: overload, short-circuit, over-temperature and battery deep-discharge protection. Emergency power off (EPO) port. Batteries: sealed maintenance-free VRLA (AGM/gel) or lithium-ion batteries. Battery type, number, voltage and configuration must be compatible with the offered UPS model, as confirmed in writing by the UPS OEM. Batteries must be supplied with a lockable battery cabinet or rack, DC breaker, and all interconnecting cables. Backup time: minimum 2 Hours at 4 kW load per unit. The bidder must submit the battery sizing calculation, with the battery manufacturer's discharge data, along with the bid. Display and management: LCD display showing load, battery status and alarms. Network management card with web interface, SNMP v3 and email alerts, integrated with the university's network management system. Event logging. Form factor: rack/tower convertible, with rack mounting kit for installation in the supplied 42U racks. A floor-standing tower is acceptable for external battery cabinets. Standards: IEC 62040-1 (safety) and IEC 62040-2 (EMC), or equivalent. Installation: supply and installation of input wiring from the data centre distribution board, input and output circuit breakers, output wiring to rack PDUs, battery installation and connection, earthing, configuration of the network management card, a load test at full calculated load with a measured backup-time report, and training of IT staff. Complete in all respects.	02

		Warranty: 03-Year comprehensive on-site warranty on the UPS, including parts and labour. Minimum 02-Year replacement warranty on batteries. Maximum 48-hour response time. Bidder must provide OEM authorization, the datasheet of the offered model, and the load and backup-time calculation. OR Higher Specification.	
2.	AC for Data Center	Server Room/Data Centre Air Conditioning System with Auto-Changeover Controller Wall-mounted inverter split air conditioner, Gree, Haier, Daikin, Mitsubishi or Equivalent. Capacity: minimum 2.0 Ton (24,000 BTU/h, approximately 7 kW cooling) per unit. Each unit must be capable of cooling the server room alone at full equipment load. Type: DC inverter, cooling with heating, eco-friendly refrigerant (R32 or R410A). Auto-restart after power failure. Suitable for continuous 24/7 operation. Configuration: two units in duty/standby (N+1) arrangement with an auto-changeover controller with full installation and testing.	2
3.	Data Centre Electrical Distribution Board with ATS and Surge Protection	Wall-mounted, powder-coated steel distribution board, IP42 or higher, Schneider, ABB, Siemens or Equivalent components. Incoming supply: Main incoming MCCB rated as per calculated load. Automatic Transfer Switch (ATS) between mains and generator supply. Type 2 surge protection device (SPD) at the incoming supply. Digital meter showing voltage, current, frequency and kWh. Outgoing circuits: Separate MCB/MCCB for UPS-1 input and UPS-2 input. Separate MCB for each air conditioner. Separate MCB for lighting. Separate MCB for general-purpose sockets (with RCD protection). Spare outgoing ways: minimum 20%. UPS output distribution: two separate UPS output distribution boards (one per UPS), each with individual MCBs for each rack PDU. Rack PDUs in each 42U rack must be fed from both UPS output boards (A-feed and B-feed). Cabling: copper cables of appropriate size from building main panel to data centre DB, and from DB to UPS units, UPS output boards and rack PDUs. All circuits labelled. Single-line diagram to be fixed inside the DB door and supplied in soft copy. Testing: insulation resistance test, earth continuity test, and ATS changeover test, with written test report. Installation, testing and commissioning complete in all respects. 02-Year warranty. OR Higher Specification.	1 Lot
4.	Dedicated Earthing System for Data Centre	Dedicated earth pit(s) for data centre equipment, using copper-bonded steel or solid copper earth electrode (minimum 17 mm diameter, 3 m length) with earth-enhancing compound, or chemical earthing. Earth pit chamber with inspection cover.	1lot

		Earth resistance: not more than 1 ohm. Additional electrodes to be installed if required to achieve this value. Copper earth busbar (minimum 300 mm × 50 mm × 6 mm) mounted in the data centre on insulators. Bonding: each 42U rack, cable tray, UPS, distribution board and AC frame bonded to the earth busbar with green/yellow insulated copper conductors of minimum 16 mm² (racks) and 35 mm² (busbar to earth pit). Data centre earth bonded to the building main earth to maintain equipotential bonding. Testing: earth resistance test with calibrated earth tester and written test report before handover. Installation complete in all respects. OR Higher Specification.	
5.	Overhead Cable Tray System for Data Centre	Copper cable tray: hot-dip galvanized wire-mesh or perforated cable tray, minimum 300 mm width × 100 mm depth, for routing approximately 500 Cat-6 cables above the racks. Maximum fill ratio 50%. Fibre raceway: separate fibre raceway or tray (minimum 100 mm width), with bend-radius-controlled fittings, for optical fibre cables and fibre patch cords. Accessories: ceiling support with threaded rods and brackets at maximum 1.5 m spacing, bends, tees, risers, drop-outs into each rack, end caps, and couplers. Velcro straps for cable dressing (no plastic cable ties on Cat-6 bundles). Installation: routing from cable entry point to all 42U racks, alignment with rack tops, bonding of tray to earth busbar, and dressing and labelling of all incoming Cat-6 and fibre cables. Installation complete in all respects. OR Higher Specification.	1 lot
6.	Biometric Door Access Control System for Data Centre	Biometric access controller, ZKTeco, Suprema, Hikvision or Equivalent. Authentication: fingerprint and RFID card (and/or PIN). Capacity: minimum 1,000 fingerprint templates, 1,000 cards, 50,000 event logs. Connectivity: TCP/IP (Ethernet), with management software for user enrolment, access schedules and log reports. Door hardware: • Electromagnetic lock, minimum 600 lb (280 kg) holding force, fail-safe type. • Exit push button. • Emergency break-glass release. • Hydraulic door closer. • Door contact sensor. Power: dedicated power supply with backup battery for minimum 4	1 Set

		hours of operation. Door: if the existing door is not suitable, a lockable steel door with frame to be supplied. 10 RFID cards included. Installation, cabling, configuration, enrolment of authorised staff, and training. Complete in all respects. 02-Year warranty. OR Higher Specification.	
7.	Fire Detection and Clean Agent Fire Suppression System for Data Centre	Automatic clean agent fire suppression system using FK-5-1-12 (Novec 1230 equivalent) or HFC-227ea (FM-200) agent, safe for electronic equipment and occupied spaces. Agent quantity: sized according to room volume and design concentration as per NFPA 2001 or ISO 14520. The bidder must submit the agent quantity calculation based on site measurement. Detection and control: • Minimum 2 addressable or conventional smoke detectors in cross-zone configuration. • Fire alarm control panel with battery backup. • Manual release station. • Abort switch. • Audio-visual alarm (hooter/strobe) inside and outside the room. • "Gas discharge" warning sign at the entrance. Cylinder with discharge nozzle(s), piping, mounting brackets, and pressure gauge. Signal output to the environment monitoring system and to the building fire alarm system if available. Portable extinguishers: 02 × CO2 fire extinguishers (5 kg), wall-mounted at the data centre entrance. Installation, testing, commissioning and staff training. Complete in all respects. 02-Year warranty on the system, with refill and recertification terms stated by the bidder. OR Higher Specification.	01 System + 02 Portable Extinguishers
8.	Data Centre Environment Monitoring System	Network-based environment monitoring appliance, APC NetBotz, Vertiv, Sensaphone or Equivalent. Sensors (included): • 03 combined temperature and humidity sensors (one at the AC supply, two at rack front/inlet). • 01 water leak detection rope sensor (minimum 3 m) under the AC units. • 01 door contact sensor. • 01 smoke sensor input. • Dry-contact inputs for AC controller and fire panel alarms. Connectivity: Ethernet with web interface, SNMP v3 and email alerts; SMS alerts through GSM modem or SMS gateway. Functions: configurable thresholds, alarm escalation, data logging with	01 Set

		trend graphs, and integration with the university network management system. Must also monitor UPS status through the UPS network management cards. Installation, sensor placement, configuration of alert recipients, and training. Complete in all respects. 02-Year warranty. OR Higher Specification.	
9.	UTP Cables Rolls	UTP Cable CAT-VI 305 meter Rolls Networking for Nodes Good quality 3m\Molex or equivalent	5
10.	UTP Patch Cord	1/2 Meter CAT-VI Patch Cord Machine Made For connecting Patch Panel 3m/Molex or equivalent	500
11.	UTP Patch Cord	1 Meter CAT-VI Patch Cord Machine Made For connecting Patch Panel 3m/Molex or equivalent	250
12.	UTP Patch Cord	3 Meter CAT-VI Patch Cord Machine Made For connecting PC to Face plate 3m /Molex or equivalent	700
13.	Patch Panels	24 Port CAT-VI Patch Panel 3m/Molex For connecting switches Network Nodes or equivalent	40
14.	Face Plates with Back Box	CAT-VI Single Section Face Plate with Back box 3m/Molex for connecting network devices with screws or equivalent	100
15.	RJ-45 I/O	CAT-VI RJ-45 I/O 3m/Molex for Connecting Network Devices or equivalent	500
16.	Cable Manager	Cable Manager 3m/Molex to Manage Cables in Cabinets with ties and installation.	40
17.	9 U Cabinets	9 U double section Cabinet For Patch Panels and Switches with wall mount kit with installation. Power cabling accessories for cabinets with Power installation complete in all respect.	6
18.	12 U Cabinets	12 U double section Cabinet For Patch Panels and Switches with wall mount kit with installation. Power cabling accessories for cabinets with Power installation complete in all respect.	6
19.	15 U Cabinets	15 U double section Cabinet For Patch Panels and Switches with wall mount kit with installation. Power cabling accessories for cabinets with Power installation complete in all respect	04
20.	42U Cabinets	42U floor standing rack for switches and Patch Panel, Lockable doors, Cable management, Cooling fans, PDU, Earthing kit with Power cabling accessories for cabinets with Power installation complete in all respect.	04
21.	PDU	PDU power Distribution Unit for Cabinets 1U rack PDU, 16 A, minimum 8 × C13 and 2 × C19 sockets, with surge protection. Two per 42U rack (A-feed and B-feed)	40
22.	Duct 25x25 mm	25x25 mm (10 Feet) Adam jee dura duct with steel screws For indoor deployment.	20
23.	Duct 25x38 mm	25x38 mm (10 Feet) Adam jee dura duct with steel screws For indoor deployment.	20
24.	Duct 40x40mm	40x40mm (10 Feet) Adam jee dura duct with steel screws For indoor deployment.	10
25.	Duct 60x60mm	60x60mm(10 Feet) Adam jee dura duct with steel screws For indoor deployment	15
26.	Fiber Optics 24 Core outdoor	Fiber Optics Cable 24Core out door Single mode 9 /125 micron water blocked and armored best quality cable must be supported 10 G Network Equipment. To connect Access switches SFP + with core switch SFP+ and SFP through fiber single mode.	2000 Meter

		LSZH jacket Underground armored where required OR Higher Specification	
27.	Fiber Patch Cord	Fiber Patch Cords **LC-LC** 5 meter (Good quality) for single Mode Fiber to connect catalyst switch SFP,s to OFDF and buildings switch to OFDF.	30
28.	Fiber Patch Cord 20 Meter	Fiber Patch Cord 20 Meter (Good quality) single Mode to connect buildings switch to switch through SFP,s.	12
29.	Fiber Pigtails	Fiber Pigtails **LC** 5 Meter for Single Mode Fiber Splicing	36
30.	HDPE Pipe	HDPE Pipe (good quality) for Outdoor Fiber deployment direct in ground with clips and complete accessories for Fiber Cable deployment.	2000 Meter
31.	OFDF (12 Ports)	Duplex Fiber OFDF (12 Ports) Rack Mounted with accessories complete in all respect.	10
32.	OFDF (24 Ports)	Duplex Fiber OFDF (24 Ports) Rack Mounted fully loaded with accessories complete in all respect.	04
33.	OFDF (48 Ports)	Duplex Fiber OFDF (48 Ports) Rack Mounted with accessories complete in all respect.	02
34.	Joint Enclosure	Joint Enclosure Madidi for main holes with complete accessories	12
35.	Flexible pipe	Flexible pipe for UTP CAT-VI cables can manage; cover that Pipe with clips (Diameter 1ft and Length 20ft) For UTP Cabling at cabinet room.	04
36.	Multimode Fibre Patch Cord, OM4, LC-LC Duplex, 3 Metre	Fibre optic patch cord, OM4 multimode 50/125 µm, LC/UPC to LC/UPC duplex, 3 metre, LSZH jacket, factory-terminated and tested, with insertion loss test report. 3M, Molex, Corning, CommScope or Equivalent.	4
37.	Fiber Optic Digging\ laying Services	Supply, installation, testing and commissioning of loose tube fiber optic cable 2000 Meter 9/125 micron single mode water blocked and armored laid direct in ground with HDPE pipes .Outdoor Fiber Optic laying, digging/ refilling of soft/hard trenches at least (2feet) direct in ground including HDPE pipes deployment excavation and back filling with complete civil work including main holes deployment work where required from main data Center to Buildings/Blocks **complete in all respect**.	2000 meter
38.	Fiber optic splicing	Fiber optic Splicing services & OFDF mounting, testing and commissioning **complete in all respect** of the whole Campus Building/Blocks	192 Splice
39.	Computer System for Network Management	**DELL, HP Lenovo or equivalent.** Business Professional. All in one system. Intel Core i7 processor, 32GB DDR5 RAM, 1TB NVMe SSD, and a dedicated graphics card., Gen 14 UHD Screen Touch 24'' or higher, all accessories, and Windows 11 Pro with keyboard, mouse or equivalent 3 years warranty. Or higher specificaitons	5
40.	Laptops for Remote/Portable Network Management	**DELL, HP Lenovo or equivalent**, At least Core i7 14th Gen 3.7 / 5.0 Ghz, 14700HX 20-Core Processor15" Screen, 16 GB RAM, 1TB SSD, Touchscreen, Graphics Card, Windows Professional or higher specifications with additional Keyboard, Mouse, or equivalent Three years warranty.	2
41.	Laptop	Processor M4 chip (10 core CPU) RAM 16GB Storage 512GB SSD Screen 14.2" Liquid Retina XDR display (Resolution:	1

		3024 x 1964) Wireless Wi-Fi E with Bluetooth 5.3 Ports HDMI port and 3 x Thunderbolt 4 (USB-C) ports, Magsafe Camera 12MP Center Stage camera Keyboard and trackpad Magic Keyboard, Touch ID & Force Touch Trackpad Power and Battery Warranty Integrated lithium-polymer battery, with USB-C Power Adapter One (01) Year Parts and Labor warranty for all components on site	
42.	24" Hub Monitor	Size 24" Minimum Specifications 2 Resolution FHD (1920x1080) 3 Refresh 60Hz 4 Panel IPS (Touchscreen) 5 Aspect Ratio 16:9 6 Brightness 300 nits 7 Contrast Ration 1000:1 8 Speaker Built-in 9 Interface 10 Mounting Interface HDMI, Display Port, USB-A, USB-C, RJ-45, Audio VESA Compatible 11 Accessories 12 Warranty USB Cables, DP/HDMI Cable, etc. One (01) Year Parts and Labor warranty for all components on site.	4
43.	**C-Type to LAN**	USB-C to Ethernet Adapter, Gigabit Support	**10**
44.	**C-Type to USB**	USB-C to USB-A 3.0 Adapter 5	**10**
45.	C-Type to VGA	USB-C to VGA Adapter	**10**
46.	**HDMI to VGA**	HDMI to VGA Adapter	**10**
47.	**HDMI D-Type to VGA**	Micro HDMI to VGA Adapter	**5**
48.	**USB to HDMI**	USB 3.0 to HDMI Adapter, 1080p or 4K	**5**
49.	**USB to LAN**	USB 3.0 to Gigabit LAN Adapter	**10**
50.	**HDMI D-Type to Micro HDMI**	HDMI Micro HDMI to Standard HDMI Adapter	**5**
51.	**HDMI Cables**	HDMI Fiber Optic 8K HDMI Cable 15m	**10**
52.	**HDMI Cables**	15 Meter HDMI Cable 10K	**20**
53.	HDMI 4K Switcher	4 IN x 1 Out Branded Superior Quality	**5**
54.	HDMI 4K Splitter	HDMI 4K Splitter 1 IN x 8 Out Branded Superior Quality	**5**
55.	**Fiber Optic Laser Tester**	Optical Fiber tester	**2**
56.	**17-in-1 Dock Station**	USB-C Dock with HDMI, VGA, LAN, USB, SD, Audio, Charging	**8**
57.	**C-Type to Multi Converter Hub**	USB-C Hub with HDMI, LAN, USB, SD, VGA	**5**
58.	**Computer Systems**	All-in-One Branded Desktop – Intel Core i7-1335U (Latest Gen), 16GB RAM, 1TB SSD, 24" FHD Display, Intel Iris Xe Graphics, Windows 11 Pro **or Higher Specifications**	**50**

Digital Phone Exchange
LOT-03

IP PBX With IP Phones and complete Installation	
IP PBX Appliance: **QTY = 1**	
Appliance Specs	Rack mountable 1U, Base Users: 50 Scaleable to 100 or More with more with Additional Cards Concurrent Calls: 15, Scalable to 30 or more with Additional Cards Call Center Agents : 50 Scaleable to 100 or more with Additional Cards FXS Ports: 8 Ports FXO Ports/BRI Ports: 8 Ports [Fxo 8 port Module Included] Maximum GSM/3G/4G ports: 4 Maximum E1/T1/J1 Ports: 1 NFC Read write: YES Ethernet Interface: 2 [10/100/1000 Mbps] or Higher Storage Drive : 1TB, SSD Sata Support USB Portable SSD, Up to 2TB Support USB Flash Drive, Up to 256
Telephony Features:	Call Forwarding, Call Transfer (Attended/Blind), Call Monitoring (Listen/Whisper/Barge-in), Call Parking, Call Pickup, Call Waiting, Call Flip/Switch ,Call Merge, IVR, Queue Business Features: Support auto-provisioning popular phone models and SIP trunks, Call Recording, Music on Hold, Boss Secretary, Fax to Email. Voice Mail. LDAP Server, IP Phone Registrations,
Administration and Security:	Web Based GUI, Dash Board, Auto Provisioning, User Roles and Permissions, Extension Groups, Events and Operation Logs, SMTP Server, Network Drive, SNMP Support, SRTP and LTS Call Encryption, IP Block List, Certificates, Two Facto r Authentication, Allow County IP's and Codes, Sip Forking,
Unified Communication:	UC client, Web based, Mobile Client (Android, IOS), Desktop Client, Presence, Contact Management, Audio Conferencing, Voice Mail, Team Chat and File sharing.
IP Phone Quantity=25	
IP Phone	Features: • HD Voice • 2.3” 132x64-pixel of Higher graphical LCD with backlight • PoE support • Up to 2 SIP accounts • Local 5-way conferencing • Support EHS Wireless Headset • Stand with 2 adjustable angles • Wall mountable • Handset with hall switch
IP Phone Calling features	2 SIP/VoIP accounts • Call hold, mute, DND • One-touch speed dial, hotline • Call forward, call waiting, call transfer • Group listening, SMS, emergency call • Redial, call return, auto answer • Local 5-way conferencing • Direct IP call without SIP proxy • Ring tone selection/import/delete

	• Set date time manually or automatically • Dial plan • XML Browser, action URL/URI RTCP-XR, VQ-RTCPXR
Audio Features:	Audio Features support: HD voice: HD handset, HD speaker • Smart Noise Filtering • Wideband codec: G.722 • Narrowband codec: PCMU (G.711μ), PCMA (G.711A), G.723.1, G.729, G.729A, G.729B, G.729AB, G.726, iLBC • DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO Full-duplex hands-free speakerphone with AEC
Connectivity:	Wireless: Built-in dual band Wi-Fi: - Network standard: IEEE802.11a/b/g/n/ac - Transmission rate: Up to 433Mbps or Higher - Frequency range: 2.4GHz/5.0GHz Wired: 2 x RJ45 10/100M Ethernet ports • Power over Ethernet (IEEE 802.3af), class 2 • 1 x RJ9 (4P4C) handset port 1 x RJ9 (4P4C) headset port
Keys and Control:	2 line keys with LED • 6 features keys: transfer, message, headset, redial, mute, hands-free speakerphone • 5 navigation keys Volume control keys
Security:	SIP v1 (RFC2543), v2 (RFC3261) • Call server redundancy supported • NAT traversal: STUN mode • Proxy mode and peer-to-peer SIP link mode • IP assignment: static/DHCP • HTTP/HTTPS web server • Time and date synchronization using SNTP • UDP/TCP/DNS-SRV (RFC 3263) • QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP • SRTP for voice • Transport Layer Security (TLS 1.3) • HTTPS certificate manager • AES encryption for configuration file (AES256) • Digest authentication • Open VPN, IEEE802.1X, L2TP VPN • IPv6 • LLDP/CDP/DHCP VLAN • ICE • WPA2/WPA3 • Secure boot GARP (Generic Attribute Registration Protocol)

Include:	Headset with Headset wire, Power Adapter
Installation	Installation and Configuration of Appliance and IP Phones with Training to IT Team. (complete Job)

Note:

• Bidder will provide [Minimum One year or as per manufacturer policy] warranty for all the items mentioned.
• Maximum of 48 hours down time for all components including replacement of the whole unit.
• The bidders should clearly mention Terms and Conditions of service agreements for the supplied
• hardware equipment after the expiry of initial warranty period.
• Please mention the country of origin / manufacturing / assembly of the quoted brand / model.
• In case of International Warranties, the local authorized dealers should mention their service and warranty setup, details of qualified engineers, etc.

Bidder Will provide Training to IT staff for provided Equipment configuration and installation that is mandatory and should share technical resource contact for technical support.

Supply and Installation of CCTV System
LOT-04

01	**CCTV Cameras**	• Resolution: at least: 4MP (Outdoor) 2MP (Indoor) • Form of camera: Fixed Bullet • Resolution 2688 x 1520 or higher • Image Sensor 1/3" or higher Progressive Scan CMOS • Lens Type: 360 Degree • Focal Length 4mm or higher • Aperture F=1.6 • Iris Type: Fixed • Min. Illumination 0.005 lux @ F1.6 or higher • Wide dynamic range 120 dB • Day and Night ICR Cut • IR Distance minimum 50m or higher • Digital Noise Reduction Configurable 3D DNR • High Light Compensation & Backlight Compensation supported. • Internal local storage of minimum 32 GB in case of NVR Failure • Video Compression H.265+, H.264+ • Bitrate Control supported • Simultaneous Live View supported • 1 x Ethernet RJ45 (10/100BASE-T) • Operating Temperature -30°C ~ +60°C • Power Source PoE (IEEE 802.3af) • Remote access for viewing and controlling the camera from anywhere • Compliance ONVIF Installation, configuration and integration with existing infrastructure will be responsibility of supplier • **Three Years Onsite Warranty** **Note: For outdoor cameras casing must be:**	**50**

		• Anti-Corrosion Protection / Vandal Proof Casing IK10 Ingress Protection IP67	
02	**NVR Server**	64-channel enterprise NVR, Hikvision, Dahua, Uniview or Equivalent, of the same brand as the offered cameras or certified compatible with them. Performance: incoming and recording bandwidth minimum 400 Mbps. Recording resolution up to 12 MP. Minimum 16-channel 1080p decoding. Compression: H.265, H.265+ and H.264. Video output: 2 independent HDMI outputs (at least one 4K) and 1 VGA, so the two LED screens can display different views. Storage: minimum 8 SATA bays with RAID 5/6 and hot-swap. Supplied with surveillance-grade hard disks giving at least 56 TB usable capacity after RAID 5. Must store 30 days of continuous recording from all 50 cameras at 20 fps with H.265. The bidder must submit the storage calculation with the bid. If the supplied storage proves insufficient, additional disks must be provided at no extra cost. Network: minimum 2 × 1GE RJ45 ports with link aggregation. No PoE ports required, as cameras are powered from the network PoE switches. Features: • ONVIF Profile S/T and RTSP support. • Web, Windows client and mobile app access, with role-based user accounts. • Smart and motion search, and synchronous playback. • HTTPS and encrypted streams. • SNMP and email alerts for disk failure and video loss. Hardware: 19-inch rack-mountable; dual power supplies preferred. Installation: rack installation, RAID setup, configuration of all 50 cameras, recording schedules, live view on both LED screens, remote access, and staff training. Complete in all respects. Warranty: 03-Year comprehensive warranty on NVR and hard disks. OR Higher Specification.	**1 System**
03	**LED**	Screen size: 50-55-inch class (52.1 inches diagonal) Resolution: 1920 x 1080 (1080p Full HD) Dynamic contrast ratio: 150,000:1. Viewing angle: 178 degrees horizontal/vertical. Response time: 2.4ms. Built-in tuner: ATSC/NTSC/Clear QAM. Audio output: 20 watts (10W x 2) Speaker system: 2-way, 4 speakers. Display type LED Capable of downloading from google play store Ethernet and WIFI internet connectivity Design wall mount & can	**2**

		be placed on table as well **Or higher specifications**	
Note:- Complete Installation, Configuration with network system and training			

Supply and Installation of Building Announcement System – LOT-05

	Internal building announcement system (IP based Public Address (PA) or Tannoy system)	**Complete IP Based Internal Building Announcement system with installation and configuration.** • IP-Based Network PA Systems With Speakers, Microphones, Amplifiers and all other accessories as per actual requirements.	
01	**Core Equipment (Amplifiers/Mixers)**	• IP Based Network supported system • **Type:** 100V Line Voltage System. • **Power Supply:** 220-240V AC, with 24V DC battery backup for emergencies. • **Rating:** Minimum 20% extra power capacity (Headroom) for future expansion. • **Features:** Rack-mounted, thermal protection, short-circuit protection, zone selection capability	
02	**Loudspeakers**	• **Ceiling Speakers:** 6-inch, 6W, EN54-24 certified for fire/voice alarm (VA). • **Wall Speakers/Cabinet Speakers:** 10W-30W for corridors/passages, IP65 waterproof for semi-outdoor areas. • **Horn Speakers:** 35W, IP65 weather-proof for site perimeter/outdoor. • **Features:** Multi-tap transformers for wattage adjustment	**3** **8** **3**
03	**Microphone & Control**	• **Call Station**: Gooseneck desktop microphone with zone selection/priority button. • **Features:** Background Noise Suppression, Feedback Suppression, and Chime Function	**4**
Note: Supply of all other required accessories, complete Installation, testing and commissioning of the system along with staff training.			

LOT-06

Sound System for Conference/Meeting Room LOT-06

1.	**Conference System Sound Mixer Amplifier**	- 15 XLR Mic Inputs - USB Interface for Laptop/PC Connection - Bluetooth Connectivity - Phantom Power Support - Echo/Noise Control - Wireless Connectivity Support	**02**

2.	**Microphones (Gooseneck/Table Type)**	Consists of unidirectional electronic condenser Microphone and Mic On/Off switch, With the Condenser Microphone, it guarantees high sensitivity and wide frequency range, MIC Input Sensitivity – 45dB ±3dB (0dB=1V/Pa at 1kHz), Max. SPL Over 105dB, Output Level/ Impedance 600Ω± 30%, Gain(Base) -2dB(Battery), -1.5dB(Phantom), Weight(SET) 1.6kg. with the Sound Mixer Amplifier with all other accessories Inter-M or Equivalent	**12**
3.	Wireless Collar Mic	Mic + 01 Receiver Per Set): 2-channel wireless system for presenters and vocal. Stable UHF band, built-in antennas and streamlined interface with great live sound, Sensitivity 1.8 mV/Pa (free field, no load at 1 kHz), Line/Mic Level 20 dB, Switchable, Signal to noise ratio ≥103dB, Automatic frequency management and synchronization via remote channel for easy setup, Selectable UHF frequencies within a large bandwidth, Up to 10 compatible channels. Compatible with the above mixer/amplifier. SENNHEISER or Equivalent	**2**
4.	Wireless Hand Held Mic	Mic +01 Receiver Per Set): 2-channel wireless system for presenters and vocal. Stable UHF band, built-in antennas and streamlined interface with great live sound, Sensitivity 1.8 mV/Pa (free field, no load at 1 kHz), Line/Mic Level 20 dB, Switchable, Signal to noise ratio ≥103dB, Automatic frequency management and synchronization via remote channel for easy setup, Selectable UHF frequencies within a large bandwidth, Up to 10 compatible channels. Compatible with the above mixer/amplifier. SENNHEISER or Equivalent	**2**
5.	**Loudspeakers**	• **Ceiling Speakers:** 6-inch, 6W, EN54-24 certified for fire/voice alarm (VA). • **Wall Speakers/Cabinet Speakers:** 10W-30W for corridors/passages, IP65 waterproof for semi-outdoor areas. • **Horn Speakers:** 35W, IP65 weather-proof for site perimeter/outdoor. • **Features:** Multi-tap transformers for wattage adjustment	**3** **8** **3**
6.	**PTZ Camera (HD)**	Full HD/4K Support, Wide-Angle Lens, USB Connectivity	**2**
7.	**Speakers**	Ceiling/Wall mount type speakers 5 or 8-inch 2-way speaker system Built in woofer and tweeter Matching line transformer White color Audio Sensitivity: 80dB or higher Speaker bracket …1, Joint bracket …1, Wall bracket …1, Bracket fixing screw …1 set (Accessories) Rated power :min 30W	**4**
8.	**LED**	Screen size: 50-55-inch class (52.1 inches diagonal) Resolution: 1920 x 1080 (1080p Full HD) Dynamic contrast ratio: 150,000:1. Viewing angle: 178 degrees horizontal/vertical. Response time: 2.4ms. Built-in tuner: ATSC/NTSC/Clear QAM. Audio output: 20 watts (10W x 2) Speaker system: 2-way, 4 speakers. Display type LED	**1**

		Capable of downloading from google play store Ethernet and WIFI internet connectivity Design wall mount & can be placed on table as well. With HDMI 15Meter High Quality cable. **Or higher specifications**	
9.	**Audio rack**	Audio rack of required size to accommodate above Front mirror-locking door with cooling fan and ventilation provision Moveable mechanism	**2**
10	**Audio Cable from PC to Amplifier**	Audio Cable from PC to Amplifier (100 Feet) 100 feet in length	**4**
• Note:- Supply of all other required accessories, complete Installation, testing and commissioning of the system along with staff training			

Important Terms and Conditions

1. **Quantity Variation and Site Survey:** The University reserves the right to increase, decrease, or delete any item(s) from the estimated quantities before the issuance of the Supply Order and/or signing of the Contract. Payment shall be made only for the actual quantities supplied, installed, executed, or consumed as per the site requirements and verified by the Technical Committee. Any extra or unused networking items shall be returned to the Supplier, and no payment shall be made for such items. The quantities specified in the Tender Document are estimated only and shall not constitute a commitment by the University to procure the entire estimated quantity. Bidders are strongly advised to conduct a thorough site survey before submitting their bids to assess the actual site requirements and prevailing site conditions.
2. The bidder shall be deemed to have conducted a detailed site survey and inspected the University campus, buildings, existing infrastructure, available pathways, ducts, trenches, cable routes, building entry points, network rooms, rack locations, power availability, and all other site conditions relevant to the execution of the Works. No claim arising from failure to inspect or understand the site conditions shall ordinarily be entertained after award of the contract.
3. The bidder shall be responsible for providing a complete, functional, tested, and operational network infrastructure in accordance with the specifications, requirements, drawings, and other provisions of the Tender Document. The contractor shall provide all necessary accessories, materials, consumables, installation hardware, tools, labor, testing, and commissioning required for completion of the Works, whether or not each minor accessory is separately listed in the Tender Document.
4. Any item that the bidder, after the site survey, considers necessary for a complete and functional system but which is not listed in the Bill of Quantities shall be listed and priced in a separate schedule titled “Additional Items Identified by Bidder”, which shall form part of the evaluated bid price. Minor installation accessories and consumables (screws, anchors, cable ties,

Velcro, labels, glands, sleeves and similar items) shall be deemed included in the quoted rates. Any other item found necessary after award that could not reasonably have been identified during the site survey shall be treated as a variation, approved in advance by the university and paid at agreed rates.

5. The campus network shall be implemented using a centralized physical **Star Topology,** with the Main Library/Academic Block Data Center serving as the central Core Network Location.

6. All designated campus buildings shall be connected to the Main Library/Academic Block Data Center through dedicated optical fiber links, unless otherwise approved in writing by the Directorate of IT.

7. The Main Library/Academic Block Data Center shall serve as the central location for core routing, switching, network monitoring, network management, security services, and centralized fiber termination/patching.

8. Fiber deployment shall be carried out in the phases identified in the Tender Document. The specified fiber-core allocation for each phase shall provide adequate capacity for the designated buildings as well as future network expansion.

9. Fiber allocation to individual buildings may be increased or decreased, and fiber routes may be modified according to actual site conditions, building requirements, network capacity, redundancy requirements, and operational requirements, subject to approval by the Directorate of IT.

10. Where technically and physically feasible, critical buildings shall be provided with redundant fiber uplinks using separate fiber cores and, where practicable, physically diverse routes to improve network resilience. The requirement for redundant connectivity shall be determined by the Directorate of IT according to the criticality of the building and site conditions.

11. All building-level optical fiber cables shall originate from and terminate at the Main Library/Academic Block Data Center, unless otherwise approved in writing by the Directorate of IT. Fiber cores shall be properly terminated and managed at both ends through appropriately sized Optical Distribution Frames (ODFs)/fiber distribution units.

12. Unused fiber cores shall be properly terminated, protected, managed, and clearly identified for future utilization. Spare fibers shall not be left loose, exposed, or inadequately protected inside racks, ODFs, splice enclosures, or cable pathways.

13. Optical fiber cables shall be installed as continuous lengths wherever technically feasible. Unnecessary intermediate joints or splices shall not be permitted. Any unavoidable intermediate splice shall require prior approval of the Directorate of IT and shall be housed in an appropriate, properly sealed, and accessible fiber splice enclosure.

14. The contractor shall be responsible for complete fiber installation, including cable pulling, routing, dressing, termination, splicing, pigtails, adapters/couplers, splice protection, ODF installation, patching, labeling, cable management, and all associated installation accessories required for a complete operational system.

15. Outdoor and indoor fiber cables shall be installed using cable types and protective

arrangements appropriate to their respective installation environments. Fiber installed through underground ducts, trenches, outdoor pathways, or other exposed locations shall have appropriate mechanical, environmental, and moisture protection as specified in the Tender Document and applicable standards.

16. The contractor shall be responsible for all associated pathway works included in the Tender Document, including conduits, HDPE ducts, cable trays, sleeves, trenching, excavation, cable pulling, building entry arrangements, protection, backfilling, reinstatement, and other associated works necessary for proper installation.

17. Quantities of fiber optic cable, Ethernet cable, conduits, ducts, cable trays, and associated installation materials may increase or decrease according to actual site requirements. Payment shall be made on the basis of actual measured quantities of completed and accepted work at the approved unit rates.

18. All fiber cables, individual fiber cores, ODFs, splice trays, patch panels, racks, network outlets, and other network termination points shall be permanently, clearly, and consistently labeled at both ends in accordance with the labeling scheme approved by the Directorate of IT.

19. The contractor shall provide a complete fiber-core allocation and termination schedule showing cable identification, originating location, destination building, ODF/rack number, splice/termination details, utilized cores, and spare cores.

20. All installed optical fiber links shall be fully tested after installation, splicing, and termination. Testing shall include, at minimum, continuity, fiber identification, polarity, optical insertion loss, and OTDR testing.

21. OTDR testing of single-mode fiber shall be performed from both ends of each completed fiber link at appropriate wavelengths, including 1310 nm and 1550 nm, or as otherwise required by the applicable standard/manufacturer's testing methodology.

22. Complete OTDR traces/results for every installed fiber link/core shall be submitted to the University in electronic format and, where required, in hard copy. Test reports shall clearly identify the cable, fiber/core number, origin, destination, test wavelength, test direction, distance, splice/connector events, and measured losses.

23. The link-loss budget shall be calculated as per ANSI/TIA-568.3-D (0.5 dB/km for outside-plant single-mode fibre, 0.75 dB per mated connector pair, 0.3 dB per splice). In addition, average fusion splice loss shall not exceed 0.1 dB.

24. All installed Cat6 structured cabling links shall be tested and certified using a calibrated Fluke Networks or equivalent approved cable certification tester appropriate for the specified Category 6 standard. Complete test reports shall be submitted in electronic and hard-copy formats as required by the University.

25. The calibration certificate of the testing equipment used for fiber and copper certification shall be valid and shall be submitted along with the respective test reports.

26. Manufacturer's datasheets, technical brochures, compliance certificates, and other relevant technical documentation shall be submitted with the bid where required. The University reserves the right to request physical samples of quoted items for quality assessment and technical verification before approval/award.

27. The contractor shall provide a complete and functional power solution for all designated network racks/cabinets, including UPS wiring, power distribution, suitable PDUs, electrical cabling, protection devices, earthing /grounding, and associated accessories as specified in the Tender Document.

28. The contractor shall provide all necessary rack installation, cable management, patching, dressing, labeling, and associated works required to make each network rack/cabinet fully operational and professionally organized.

29. The contractor/OEM shall provide hands-on training to designated University IT staff on fiber optic splicing, fiber termination, ODF management, fiber identification, basic fault diagnosis, and OTDR operation. Training shall include practical demonstration and shall be conducted after installation and commissioning. Training shall also cover configuration and administration of the core and access switches, WLAN controller, firewall, servers, network management system, UPS and CCTV system, for a minimum of 5 working days, with training material supplied in electronic form.

30. The contractor shall provide complete as-built documentation upon completion of the Works, including updated campus fiber topology, building-wise fiber routes, cable/core allocation, ODF termination schedules, splice schedules, rack layouts, labeling schedules, fiber test results, OTDR traces, Cat6 Fluke certification reports, photographs of completed installation, and other relevant network documentation.

31. The contractor shall update all network drawings and documentation to reflect the actual installed infrastructure. The University's Directorate of IT shall receive the final approved as-built documentation in both editable electronic format and PDF format.

32. No fiber link, structured cabling link, network rack, ODF, or other network infrastructure shall be considered complete merely on the basis of physical installation. Completion shall require successful termination, labeling, testing, documentation, and commissioning.

33. The complete network infrastructure shall be considered successfully completed only after satisfactory installation, testing, commissioning, submission of required test reports and as-built documentation, and verification by the University's Directorate of IT/authorized technical committee.

34. Any fiber link, splice, termination, connector, cable, structured cabling component, or associated installation failing to meet the specified performance requirements during testing or within the applicable defect liability/warranty period shall be rectified or replaced by the contractor at no additional cost to the University.

35. The Contract shall be for the complete scope of work described in the Tender Document, and bids shall cover the complete scope. The contractor shall be responsible for completing all parts of the

Works in every respect and delivering a fully functional system.

36. No offer shall be considered if the offer is ambiguous, conditional, incomplete, or materially non-conforming to the specifications, terms, and conditions indicated in the Tender Document.

37. The contractor shall comply with all applicable standards, codes, safety requirements, manufacturer's installation guidelines, and instructions issued by the University/Directorate of IT during execution of the Works.

38. Any proposed equivalent product, material, technology, or component shall be subject to prior technical approval by the Directorate of IT and shall meet or exceed the specified technical and performance requirements.

39. All equipment shall be new, genuine and supplied through the OEM's authorised channel in Pakistan, with serial numbers verifiable on the OEM portal. No quoted model shall have an end-of-sale announcement on the bid submission date, and the OEM's end-of-support date shall be not earlier than 3 years after delivery. All licenses, subscriptions and warranties shall be registered in the name of Women University of AJK, Bagh, and an OEM letter confirming this shall be provided at delivery.

40. The University reserves the right to inspect the quality of materials and workmanship at any stage of procurement, installation, testing, and commissioning. Defective, damaged, substandard, or non-conforming material shall be rejected and replaced by the contractor at no additional cost to the University.

41. Network Configuration, Installation, Integration, Testing and Commissioning: The supplier/contractor shall be responsible for the complete installation, configuration, integration, testing and commissioning of the entire network infrastructure, including network switches, network cabinets/racks, patch panels, CCTV system, IP-based digital PBX system, I/O ports and associated equipment. The scope shall include installation and configuration in accordance with applicable standards, proper termination of UTP and fiber-optic cables, tagging, labeling, coding and mapping of all 500 network points, and ensuring the proper functioning of the complete network system. The supplier/contractor shall also conduct system integration testing, resolve all identified faults, commission the complete system, and provide necessary training to the University's designated staff regarding the operation, configuration, management and basic troubleshooting of the installed equipment. Upon completion, the supplier/contractor shall hand over complete and accurate documentation, including as-built network diagrams, fiber-optic cable route diagrams, network rack layout diagrams, patch panel mapping, and a comprehensive cable numbering and labeling scheme. All materials, labor, tools, accessories and services required to complete the above-mentioned works shall be included in the quoted price, and no additional payment shall be admissible on this account.

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