

LAHORE COLLEGE FOR WOMEN  
UNIVERSITY LAHORE



**TENDER DOCUMENT FOR Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Computer Server, Network Switch CISCO or Equivalent, Network switch OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items**

**Issued to: \_\_\_\_\_**

**Tender No. LCWU/Tender/2020-2021/05**

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# LAHORE COLLEGE FOR WOMEN UNIVERSITY, LAHORE

Ph. No.042-99203801-09 Ext. 286/210

[www.lcwu.edu.pk](http://www.lcwu.edu.pk)

No.2885/LCWU  
Dated:18-11-2020

## TENDER NOTICE

Sealed tenders/ bids are invited from the firms registered with Sales Tax and Income Tax Departments for following Tender on the basis of **Single Stage (Two Envelope Procedure)** in terms of Rule No. **38 2(a)** of the Punjab Procurement Rules 2014 (PPRA Rules 2014).

Tender No.	Sr. No.	Tender Name	2% CDR Amount Of Estimated cost	Total Bid Cost (Estimated)	Qty.	Closing Time and Date	Opening Time and Date
<b>LCWU/2020-2021/05</b>	1.	Camera, Speakerphones and Microphones	10,000	500,000	1	10-12-2020 till 12:00	10-12--2020 at 12:30 PM
		Power Amplifier			1		
		LED Screens			3		
	2.	Computer Branded Server	693,600	3,46,80,000	320+1=321		
		Network Switch (CISCO or Equivalent )			3		
					1+9=10		
	3.	OTDR	71,200	35,60,000	1		
		Optical Fiber Laser Tester			1		
		Server HP/Dell/IBM or Equivalent			3		
		Network Printer			8		
		PABX			1		
	4.	Multimedia Projector	40,000	20,00,000	7		
		Scanner			8		
		Photocopier Heavy Duty			2		
	5.	UPS	24,000	12,00,000	12		
	6.	Network/Lab Active Components i. Core Switch ii. Core Router iii. Firewall iv. Access Layer Switch v. Wireless AP vi. NMS vii. Wireless Controller	166,500	83,25,000	Detail in Tender Document		
		Network /Lab Passive Components Copper installation			Detail in Tender Document		
		Fiber with installation			Detail in Tender Document		
	7.	Video Conferencing Facility	30,000	15,00,000	Detail in Tender Document		
	8.	Furniture items	18,800	940,000	Detail in Tender Document		

- Tender Document will be immediately available on LCWU & PPRA Websites after publishing of this Tender Notice (Rule No. 25(1)).
- Tender Document can be obtained / downloaded from the website of PPRA Punjab ([www.ppra.punjab.gov.pk](http://www.ppra.punjab.gov.pk)) and LCWU web site ([www.lcwu.edu.pk](http://www.lcwu.edu.pk)). **Tender Fee of Rs.1000**, shall be

attached with tender documents as a Pay Order in favor of Vice Chancellor Lahore College for Women University, Jail Road, Lahore.

- The Bid Security, 2% of estimated price, in the form of “CDR in favor of Vice Chancellor Lahore College for Women University, Jail Road, Lahore is required to be submitted with the Financial Bid, without which the offer shall be rejected being non-responsive. The detail of amount of Bid Security is given in the Tender Document.
- Bids without supporting documents, undertaking, valid documentary evidence, and bids not conforming to terms and conditions given in the Tender Document will be liable for rejection.
- No supporting document will be accepted, at all, after opening of the Technical Bids.
- Bids received after due time and date or bids without Bid Security in shape of CDR or CDR less than required amount or Bid Security in shape of Cheque/ Cross Cheque/pay order/ Demand Draft /Banker’s Cheque shall be summarily rejected.
- Vendors must quote their rates on the company letter pad / tender form according to the specifications. Hand written quoted rates will not be accepted.
- The sealed tenders must reach the University office through Registered post/ courier service by hand tender will not be accepted.

**Chairperson Purchase Committee**  
**Lahore College for Women University, Jail Road, Lahore**  
Ph. No.042-99203801-09 Ext. 286/210

## **INVITATION TO THE BID**

Bids/Tenders are invited, for Tender Document for **Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items** from Sales Tax and Income Tax Registered firms.

### **1. INSTRUCTIONS TO THE BIDDERS**

- 1.1. Procurement will be made under Punjab Procurement Rules (PPRA) 2014.
- 1.2. It will be clearly understood that the Terms and Conditions mentioned in this document are intended to be strictly enforced.
- 1.3. Bidders must ensure that they submit all the required documents indicated in the Tender / Bid Documents at the time of opening of Technical Bids and no request for submission of missing documents will be entertained after opening of the Technical Bids.
- 1.4. Bids without supporting documents, undertaking, valid documentary evidence, and bids not conforming to terms and conditions given in the Tender Document will be liable for rejection. Bids received after due time and date or bids without Bid Security in shape of CDR or CDR less than required amount or Bid Security in shape of Cheque/ Cross Cheque/pay order/ Demand Draft /Banker's Cheque shall be summarily rejected.
- 1.5. Vendors must quote their rates on the company letter pad / tender form according to the specifications. Hand written quoted rates will not be accepted.
- 1.6. **Mode of Advertisement:**  
As per Rule 12(2) the advertisement is being placed on the website of PPRA Punjab ([www.ppra.punjab.gov.pk](http://www.ppra.punjab.gov.pk)) and LCWU web site ([www.lcwu.edu.pk](http://www.lcwu.edu.pk))
- 1.7. **Type of Open Competitive Bidding**  
As per Rule No. 38(2) a, Single stage two envelope procedures shall be followed with details given below:
  - 1.7.1. The bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
  - 1.7.2. The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion;
  - 1.7.3. Initially, only the envelope marked "TECHNICAL PROPOSAL" shall be opened; The envelope marked as "FINANCIAL PROPOSAL" shall be retained in the custody of procuring agency without being opened;
  - 1.7.4. The Purchaser shall evaluate the technical proposal under **PPRA Rule # 32** and in a manner prescribed in this document, without reference to the price and reject any proposal which does not conform to the specified requirements as listed in said Sections. During the technical evaluation no amendments in the

technical proposal shall be permitted;

**1.7.5.** The financial proposals of technically qualified bidders shall be opened publicly at a time, and venue announced and communicated to the bidders in advance;

**1.7.6.** After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted and qualified bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders .

**1.8. BID DATA SHEET (Information for the Bidders)**

1	Procuring Agency	Lahore College for Women University, Jail Road, Lahore
2	Tender Number	LCWU/Tender/2020-2021/05
3	Name of Tender	<ul style="list-style-type: none"> <li>• <b>Camera, Speakerphones and Microphones</b></li> <li>• <b>Power Amplifier</b></li> <li>• <b>LED Screens</b></li> <li>• <b>Computer Branded</b></li> <li>• <b>Server</b></li> <li>• <b>Network Switch</b></li> <li>• <b>OTDR</b></li> <li>• <b>Optical Fiber Laser Tester</b></li> <li>• <b>Server</b></li> <li>• <b>Network Printer</b></li> <li>• <b>PABX</b></li> <li>• <b>Multimedia Projector</b></li> <li>• <b>Scanner</b></li> <li>• <b>Photocopier</b></li> <li>• <b>UPS</b></li> <li>• <b>Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer switch, wireless AP, NMS, wireless Controller)</b></li> <li>• <b>Network/Lab Passive Components (Copper with Installation, fiber with Installation)</b></li> <li>• <b>video conferencing Facility</b></li> <li>• <b>Furniture items</b></li> </ul>
4	Tender Document available place	on the website of PPRA Punjab ( <a href="http://www.ppra.punjab.gov.pk">www.ppra.punjab.gov.pk</a> ) and LCWU web site ( <a href="http://www.lcwu.edu.pk">www.lcwu.edu.pk</a> )
5	Cost of Tender Document	<b>Rs.1000/-</b> attach Pay Order In favor of V.C Lahore College for Women University Jail Road Lahore (Non Refundable)
6	Bid Security	<ul style="list-style-type: none"> <li>• Rs.10,000/- for Camera, Speakerphones and Microphones, Power Amplifier and LED Screens</li> <li>• Rs.693,600/- for Computer Branded, Server and Network Switch(CISCO or Equivalent</li> <li>• Rs.71,200/- for OTDR, Optical Fiber Laser Tester, Server HP/Dell/IBM or Equivalent, Network Printer and PABX</li> <li>• Rs.40,000/-for Multimedia Projector, Scanner and Photocopier</li> <li>• Rs.24,000/- for UPS</li> <li>• Rs.166,500/- for Network/Lab active Components</li> </ul>

		<p>(Core Switch, Core Router ,Firewall ,Access Layer switch , wireless AP,NMS, wireless Controller) for Network/Lab Passive Components (Copper with Installation) and fiber with Installation</p> <ul style="list-style-type: none"> <li>• Rs.30,000/- for video conferencing Facility</li> <li>• Rs.18, 800/- for Furniture items</li> </ul> <p>In shape of CDR in favor of "Vice Chancellor, Lahore College for Women University.</p>
8	Performance Security	<p>10% security will be retained from supplier's bill which will be returned after warranty period.(as per tender document) In Case of Letter of Credit firms will submit Bank Guarantee. The security shall be refunded to the Vendor/Supplier within one months of its becoming due, in case refund is not claimed, the security shall stand forfeited as unclaimed deposits. Claim for 10% security refund Performa is attached with tender document.</p>
9	Tender Addressed to	Chairperson, Lahore College for Women University, Jail Road, Lahore
6	Contact Number	Ph. 042-99203801-09 Ext. 286/210
10	Due Date, Time and place of submission of Tender Document	10-12-2020 till 12:00 P.M (through Registered courier) Diary Dispatch Section Room No. S-16 2 <sup>nd</sup> Floor Lahore College for Women University, Jail Road, Lahore
11	Date, Time and Place of Technical Bid Opening	10-12-2020 at 12:30 PM at Committee Room of Lahore College for Women University, Jail Road, Lahore
12	Date, Time and Place of the Financial Proposals	Shall be intimated subsequently to Technically Qualified firms

## **TERMS AND CONDITIONS OF THE TENDER**

### **2. Definitions**

- 2.1. "Purchaser" means Lahore College for Women University, Jail Road Lahore
- 2.2. "LCWU" means Lahore College for Women University, Lahore
- 2.3. "Bidder/Tenderer" means the Firm/Company/Supplier/Distributor that may provide or provides the Goods and related services to any of the public sector organization under the contract and have registered for the relevant business thereof.
- 2.4. "Contract" means the agreement entered into between the Purchaser and the Contractor, in form of Supply Order or as recorded in the Contract Form signed by the parties, including all Schedules and Attachments thereto and all documents incorporated by reference therein.
- 2.5. "Contractor/The Successful Bidder" means the person whose Tender has been accepted and awarded letter of Acceptance followed by the Supply Order or Contract by the Purchaser.
- 2.6. "Contract Value" means that portion of the Contract Price adjusted to give effect to such additions or deductions as are provided for in the Contract which is properly apportion-able to the Goods or Services in

question.

- 2.7. "Goods" means equipment, machinery, and/or other materials which the Contractor is required to supply to the Purchaser under the Contract.
- 2.8. "Services" means installation, configuration, deployment, commissioning, testing, training, support, after sale service, etc. of Goods and other such obligations which the Contractor is required to provide to the Purchaser under the Contract.
- 2.9. "PPRA" means Punjab Procurement Regulatory Authority.

### 3. **TENDER ELIGIBILITY**

Eligible Bidder/Tenderer is one who:

- 3.1. has valid registration certificates for Income Tax and Sales Tax;
- 3.2. is an active Income Tax Payer;
- 3.3. has got the experience in supply of relevant items;
- 3.4. has got the Technical Staff to execute the work;
- 3.5. conforms to the clause of "Responsiveness of Bid" given in this tender document;
- 3.6. has not been blacklisted.

### 4. **EXAMINATION OF THE TENDER DOCUMENT**

The bidder/Tenderer is expected to examine the Tender Document, including all terms and conditions.

### 5. **AMENDMENT OF THE TENDER DOCUMENT**

- 5.1. The Purchase Committee of Lahore College for Women University, at any time prior to the deadline for submission of the Tender, at its own initiative or in response to a clarification requested by the Bidder(s), amend the Tender Document, on any account, for any reason. All amendment(s) shall be part of the Tender Document and binding on the Bidder(s).
- 5.2. The Purchaser shall notify the amendment(s) in writing to the prospective Tenderers/Bidders.
- 5.3. The Purchaser may, at its exclusive discretion, amend the Tender Document to extend the deadline for the submission of the Tender, in which case all rights and obligations of the Purchaser and the Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

### 6. **BID CURRENCY**

Bidder should quote price in Pak Rupees for as tender notice.

### 7. **VALIDITY PERIOD OF THE BID**

- 7.1. Validity period of the bids shall be 90 days.
- 7.2. In exceptional circumstances, the Purchase Committee of Lahore College for Women University may ask the Bidders for an extension of the period of validity. The request and the responses shall be made in writing. A bidder accepting the request will not be required nor permitted to modify its tender.

### 8. **BID SECURITY**



Bidder will submit Bid Security drawn in the name of Vice Chancellor Lahore College for Women University against each lot with details given below: 10% security will be retained from supplier's bill which will be returned after warranty period. (as per tender document) In Case of Letter of Credit firms will submit Bank Guarantee. The security shall be refunded to the Vendor/Supplier within Six months of its becoming due, in case refund is not claimed, the security shall stand forfeited as unclaimed deposits.

**8.1.**

*(The required amount of Bid Security, for each lot, does not exceed 2% of estimated cost of the lot)*

Sr. No.	Tender Name	2% CDR Amount
1.	Camera, Speakerphones and Microphones	10,000
	Power Amplifier	
	LED Screens	
2.	Computer Branded	693,600
	Server	
	Network Switch (CISCO or Equivalent )	
3.	OTDR	71,200
	Optical Fiber Laser Tester	
	Server HP/Dell/IBM or Equivalent	
	Network Printer	
	PABX	
4.	Multimedia Projector	40,000
	Scanner	
	Photocopier Heavy Duty	
5.	UPS	24,000
6.	Network/Lab Active Components	166,500
	i. Core Switch	
	ii. Core Router	
	iii. Firewall	
iv. Access Layer Switch		
v. Wireless AP		
vi. NMS		
vii. Wireless Controller		
	Network /Lab Passive Components	
	Copper installation	
	Fiber with installation	
7.	Video Conferencing Facility	30,000
8.	Furniture items	18,800

**8.2.** The Bid Security will be in form of CDR in favor of the Vice Chancellor, Lahore College for Women University Lahore.

**8.3.** Cheque/ Cross Cheque/pay order/ Demand Draft /Banker's Cheque shall be summarily rejected.

**8.4.** The amount submitted as Bid Security shall be refunded to the unsuccessful bidders after the decision for the award of the said tender.

**8.5.** The Bid Security of Successful Bidder(s) may be return after provision of supply along with invoice/bill

**8.6.** If the Bid Security is found less than the required amount then the bid will be rejected irrespective of the rates and the stage of the bid process.

**8.7.** The Bid Security may be forfeited if a Bidder:

- a) Refuses to accept supply order/ work order
- b) Fails to furnish complete/partial supply of items.

## 9. **BID PREPARATION AND SUBMISSION**

- 9.1. The Tender shall be filed in / accompanied by the prescribed Forms, Annexes, Schedules, Drawings, Documents, Brochures, Literature, etc. which shall be completely filled in, stamped and signed by the Tenderer or his Authorized Representative. In case of copies, photocopies may be attested.
- 9.2. The Bids/Tenders should be submitted in two parts (1) **Technical Proposal** and (2) **Financial Proposal**. The Technical Proposal and Financial Proposal shall be submitted in separate covers.
- 9.3. **TECHNICAL PROPOSAL**
- The Technical Proposal will enable the Purchase Committee to evaluate whether the bidder is technically competent and capable of executing the order and the specifications offered by the bidder meet the ones given in the Tender/Bid Documents. Only those bids which qualify in the technical stage will be eligible for the Financial Proposal opening. The Financial Proposals of bidders who failed in the Technical stage will not be opened.
- 9.4. The Technical Proposal form as given in the Bid/Tender Document shall be filled, signed and stamped in all pages. The Purchase Committee will not be responsible for the errors committed in the bids by the bidders.
- 9.5. The Technical Proposal should not strictly contain any Price/Cost indications as such otherwise the bids will be summarily rejected.
- 9.6. The Bidder should quote only one brand/model/make of each item.
- 9.7. **Detail and Order of Documents to be furnished with the Technical proposal (Envelope A):**

The documents attached with the Technical Bid must be signed and stamped by the Authorized Representative of the Bidder. The documents attached must be numbered and attached in the following order:

- 9.7.1. Covering letter (***Annexure-A***) duly signed and stamped by authorized representative.
- 9.7.2. Copy of Income Tax Registration Certificate
- 9.7.3. Copy of Sales Tax Registration Certificate.
- 9.7.4. Detailed specification of items.

At least two relevant Supply Orders/Contracts received for supply of **Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items** Affidavit/Undertaking Covering Letter on Stamp Paper (***Annexure-D***).

### **FINANCIAL PROPOSAL**

- 9.8. The Financial Proposal of the bidder shall also include the price break up of taxes/duties. All taxes/duties as applicable shall be responsibility of the bidders.

- 9.9. The cost quoted by the bidder shall be kept firm and unchanged for a period specified in the Bid/Tender Documents from the date of opening of the bids. The bidder shall keep the price firm/unchanged during the period of Contract including during the period of extension of time if any.
- 9.10. The quoted price will be inclusive of all taxes, duties, levies, insurance, freight (transportation charges), etc.
- 9.11. The Bid is liable for rejection if Financial Proposal contains conditional offer.
- 9.12. Vendors must quote their rates on the company letter pad / tender form according to the specifications. Hand written quoted rates will not be accepted.
- 9.13. **Details to be furnished with Financial proposal (Envelope B)**
- 9.13.1. Financial Proposal Covering Letter (**Annexure E**).
- 9.13.2. Financial Proposal Form duly filled, signed and stamped by the Bidder (**Annexure F**).
- 9.13.3. Bid Security of amount (total amount of the relevant lot) mentioned in Clause No. 8 of the Tender Document.

9.14. **Sealing the Bid**

The Technical Proposal shall be placed in a separate cover (**Envelope-A**) and sealed appropriately. The Technical Proposal cover shall be marked as **“Technical Proposal for Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items** Bid Ref.: due on the “FROM” address and “TO” address shall be written without fail.

- 9.15. The Financial Proposal (**Envelope-B**) shall contain rates of item quoted by the bidder. The Financial Proposal cover shall be marked as **“Financial Proposal for Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items** Bid Ref.: due on: The “FROM” address and “TO” address shall be written without fail.
- 9.16. **Out Cover:** The Technical Proposal cover (Envelope-A) and Financial Proposal cover (Envelope B) shall then be put in a single outer envelope and sealed. The outer cover shall be marked as **“Bid for Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller),**

**Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items**

due on \_\_\_\_\_. The "FROM" address and "TO" address shall be written without fail.

**9.17. Mode of Submission of Bids**

The Bid should be addressed to "Chairperson Purchase Committee, Lahore College for Women University, Jail Road, Lahore" and shall reach diary section of Lahore College for Women University, within given time period in tender notice, through valid Courier/Post.

**9.17.1.** The Bids received after Due Date and Time or by-hand or Unsealed or incomplete or submitted by Fax or Email will be summarily rejected.

**10. MODIFICATION/WITHDRAWAL OF THE TENDER**

**10.1.** The Bidder may, by written notice served on the Purchaser, modify or withdraw the Tender after submission of the Tender, prior to the deadline for submission of the Tender.

**10.2.** The Tender, withdrawn after the deadline for submission of the Tender and prior to the expiration of the period of the Tender validity, shall result in forfeiture of the Tender Security.

**11. BID OPENING**

**11.1. Technical Proposal Opening**

The bid's outer cover and Technical Proposal cover will be opened by the Purchase Committee of Lahore College for Women University on the date and time as specified in the Tender Notice /Bid Data Sheet. The bids will be opened in the presence of the bidders who choose to be present. Only one representative for each bidder would be allowed to attend the Bid Opening.

**11.2. Suppression of facts and misleading information**

**11.2.1.** During the bid evaluation, if any suppression or misrepresentation of information is brought to the notice of the Purchase Committee, the Committee shall have the right to reject the Bid and if it happens so after selection of the Bidder, the Purchase Committee may terminate the Contract or award of the Contract or further processing of the Bid as the case may be and that will be without any compensation to the Bidder and the Bid Security/Performance Guarantee, as the case may be, shall be forfeited.

**11.2.2.** It is the Bidder's responsibility to prove the Bidder's requisite qualification, experience and capacity to undertake the project to the entire satisfaction of the Purchase Committee failing which the Bid may be rejected.

**12. PRELIMINARY EXAMINATION**

**12.1.** The Procuring Agency shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether the required documents have been furnished and properly signed, and whether the bids are generally in order.

**12.2.** In the financial bids (at the time of opening the financial proposal) the arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the

unit price and the 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 the Bidders/Suppliers do not accept the correction of the errors, its bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.

### 13. **DETERMINATION OF RESPONSIVENESS OF THE BID**

13.1. The Purchaser shall determine the substantial responsiveness of the Tender to the Tender Document, prior to the Tender evaluation, on the basis of the contents of the Tender itself without recourse to extrinsic evidence. A substantially responsive Bid is one which:

- 13.1.1. meets a eligibility criteria for the Bidder / the Goods / the Services;
- 13.1.2. Meets all the mandatory requirements of the evaluation criteria.;
- 13.1.3. meets the Technical Specifications for the Goods / the Services;
- 13.1.4. meets the delivery period / point for the Goods / the Services;
- 13.1.5. is accompanied by the required Bid Security;
- 13.1.6. is otherwise complete and generally in order;
- 13.1.7. Conforms to all terms and conditions of the Tender Document, without material deviation or reservation
- 13.1.8. which offers one Brand/Model/Make for each item (which does not contain any option)

13.2. A material deviation or reservation is one which affects the scope, quality or performance of the Goods or limits the Purchaser's rights or the Bidder's obligations under the Contract.

13.3. The Tender determined as not substantially responsive shall not subsequently be made responsive by the Tenderer by correction or withdrawal of the material deviation or reservation. However, the Purchaser may waive off any minor non-conformity or inconsistency or informality or irregularity in the Tender.

### 14. **TECHNICAL EVALUATION CRITERIA**

The Bidders who have duly complied with the Eligibility/Qualification and Evaluation will be eligible for further processing.

The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty services will be rejected.

The Eligible/Technically Qualified Bidders will be considered for further evaluation.

Under PPRA Rules # 31, Technical Bids will be evaluated on the basis of following criteria and Financial Bids of only those bidders will be opened who have fulfilled the criteria:

<b>Evaluation Criteria</b>	<b>Requirement</b>
Sales Tax Registration	<b>Mandatory</b>
Income Tax Registration	<b>Mandatory</b>
Conformance to the required specification of items given in Schedule of Requirement	<b>Mandatory</b>
At least two relevant Supply Orders/Contracts received in last two years for <b><u>Cameras, Speakerphones and Microphones, Power Amplifier , LED Screens , Desktop Branded Computer System, Server, Network Switch, OTDR, Optical Fiber Laser Tester, Network</u></b>	<b>Mandatory</b>

<p><b><u>Printer, PABX, Multimedia Projector, Scanner, Photocopier, UPS, Network/Lab active Components (Core Switch, Core Router, Firewall, Access Layer Switch, Wireless AP, NMS, Wireless Controller), Network/Lab Passive Components (Copper with Installation, Fiber with Installation), Video Conferencing Facility, and Furniture items</u></b> (copy of supply order/work order must be attached)</p>	
Affidavit /Bidder's Undertaking on stamp paper	<b>Mandatory</b>

The bidder must provide Verifiable documentary proof against all the mandatory requirement and Evaluation Criteria along with the Technical Proposal and no document will be received or considered after opening of the Technical Proposal.

The Purchase Committee may ask for physical Demonstration of any of the items given in the Tender Document for confirmation of the specifications.

## 15. **FINANCIAL PROPOSAL EVALUATION**

- 15.1.** Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders at the time and venue indicated by the Purchaser accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against each Lot shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s).
- 15.2.** Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made by the Government in favor of the Purchaser, the contractor shall be bound to adjust the same in the Financial Proposal.

## 16. **REJECTION AND ACCEPTANCE OF THE TENDER/BID**

- 16.1.** The Purchaser shall have the right, at his exclusive discretion, to increase / decrease the quantity of any or all item(s), under PPRA Rules 2014 without any change in unit prices or other terms and conditions, accept a Tender reject any or all tender(s), cancel / annul the Tendering process at any time prior to award of Contract, without assigning any reason or any obligation to inform the Tenderer of the grounds for the Purchaser's action, and without thereby incurring any liability to the Tenderer and the decision of the Purchaser shall be final.
- 16.2. The Tender / bid shall be rejected if:**
- 16.2.1.** It is substantially non-responsive; or
- 16.2.2.** The bidder does not meet any of the mandatory criteria mentioned in Clause No. 15; or
- 16.2.3.** It does not contain the documentary proof against any of the mandatory criteria mentioned in Clause No. 15; or
- 16.2.4.** The bid is incomplete, partial, conditional, alternative, late; or
- 16.2.5.** the bidder does not attach Bid Security in Shape of CDR; or
- 16.2.6.** the bid security is not attached or it is less than the required amount; or
- 16.2.7.** the Bidder submits more than one Bids against one Tender; or
- 16.2.8.** the Bidder tries to influence the Tender evaluation / Contract award; or
- 16.2.9.** the Bidder engages in corrupt or fraudulent practices in competing for the Contract award; or

**16.2.10.** there is any discrepancy between bidding documents and bidder's proposal i.e. any non-conformity or inconsistency or informality or irregularity in the submitted bid; or

**16.2.11.** The Bidder submits any financial conditions as part of its bid which are not in conformity with tender document.

**17. CONTACTING THE PROCURING AGENCY**

**17.1.** No Bidder shall contact the Purchase Committee of Lahore College for Women University on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.

**17.2.** Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract Award will disqualify the bidder and rejection of the bid. Canvassing by any Bidder at any stage of the Tender evaluation is strictly prohibited.

**18. ANNOUNCEMENT OF EVALUATION REPORT**

The Procuring Agency shall announce the results of bid evaluation in the form of a report giving justification for acceptance or rejection of bids at least ten days prior to the award of Contract. The report shall be made available on PPRA website and all the bidders shall be informed of this.

**19. AWARD OF CONTRACT**

**19.1.** The Tender will be awarded to the Lowest Evaluated Bidder who has been declared Technically Qualified.

**20. REFUND OF BID SECURITY (BS)**

The BS of the unsuccessful Bidder will be refunded on the written request of the Bidder. The Bid Security of the successful bidder shall be released after successful completion of delivery.

**21. ISSUANCE OF SUPPLY ORDER OR SIGNING THE CONTRACT**

**21.1.** The Purchase Committee shall issue Supply Order or sign a Contract with the Successful bidder who has submitted the Performance Guarantee.

**21.2.** The Successful Bidder will provide the stamp paper of 0.25% of total order value for issuance of Supply Order or Signing the Contract.

**22. REDRESSAL OF GRIEVANCES BY THE PROCURING AGENCY**

**22.1.** Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint concerning his grievances not later than 10 days after the announcement of the bid evaluation report.

**22.2.** The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint.

**22.3.** Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

**22.4.** Any bidder not satisfied with the decision of the committee of the procuring agency may lodge an appeal in the relevant court of jurisdiction.

**GENERAL CONDITIONS OF CONTRACT / SUPPLY ORDER**

**23. DELIVERY OF ITEMS**

**23.1.** Delivery Period will be counted after issuance of Supply Order with details given below:

**23.2.**

	<b>Name of items</b>	<b>No. of days</b>	
1.	Camera, Speakerphones and Microphones	30- days	
2.	Power Amplifier		
3.	LED Screens		
4.	Computer Branded		
5.	Server		
6.	Network Switch (CISCO or Equivalent )		
7.	OTDR		
8.	Optical Fiber Laser Tester		
9.	Server HP/Dell/IBM or Equivalent		
10.	Network Printer		
11.	PABX		
12.	Multimedia Projector		
13.	Scanner		
14.	Photocopier Heavy Duty		
15.	UPS		
16.	Network/Lab Active Components i. Core Switch ii. Core Router iii. Firewall iv. Access Layer Switch v. Wireless AP vi. NMS vii. Wireless Controller		
	17.		Network /Lab Passive Components Copper with installation
	18.		Fiber with installation
	19.		Video Conferencing Facility
	20.		Furniture items

**23.3.** The Supplier will be responsible for **delivery and installation** of Items at LCWU Lahore as mentioned.

**23.4.** The supplier will bear all costs associated with the preparation, delivery and installation of the Items and the Purchaser will in no case be responsible or liable for those costs. The supplier will make such arrangements to ensure safe delivery of goods. Any damage sustained during transportation / delivery will be rectified by the supplier at his cost.

## **24. LIQUIDATED DAMAGES**

**24.1.** When the supplier fails to deliver or install the goods or both within the time period specified in the contract, the Purchase Committee may, without prejudice to any other remedy it may have under the contract, deduct from the contract price, as liquidated damages, a sum Rs.500/- per day of the delayed goods per day of delay, penalty may be wave off by the competent authority.

**24.2.** The Successful Bidder will be responsible to provide the delivery, delivery Challan and Bill with Sales Tax Invoice within the delivery period in order to avoid Late Delivery Charges.

## **25. INSPECTION AND TESTS**



- 25.1. The Inspection Committee of LCWU shall inspect and test the Goods supplied, the Services provided, under the Contract/Supply Order, to verify their conformity to the Technical Specifications.
- 25.2. Inspection Committee may verify the authenticity of items from Supplier.
- 25.3. After the inspection or test if the Purchase Committee is of the opinion that items do not conform to the specification and the criteria mentioned above, the Inspection Committee may reject them, and the supplier shall either replace the rejected goods or make all alterations necessary to meet the requirements of the specifications free of cost to LCWU.

## 26. **RELEASE OF PERFORMANCE SECURITY**

The performance security / Bank Guarantee 10% will be refunded to the supplier's after completion of warranty period one year Claim for 10% security refund Performa is attached with tender document.

## 27. **CONTRACT AMENDMENT**

- 27.1. The Purchaser may, at any time, by written notice served on the Contractor, alter, amend, omit, increase, decrease or otherwise change the nature, quality, quantity and scope, of all / any of the Goods / the Services / the Works, in whole or in part.
- 27.2. No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

## 28. **TERMINATION FOR DEFAULT**

The Purchase Committee of Lahore College for Women University may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the tenderer, terminate this Contract in whole or in part if:

- 28.1. The bidder fails to provide services within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity.
- 28.2. the successful bidder fails to deliver goods and services as per its technical specifications offered in the bid
- 28.3. The successful bidder fails to perform any other obligation(s) under the Contract.
- 28.4. The bidder, in the judgment of the Purchase Committee has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

## 29. **BLACKLISTING**

If the Contractor fails / delays in performance of any of the obligations, under the Contract / Letter of Acceptance, violates any of the provisions of the Contract / Letter of Acceptance, commits breach of any of the terms and conditions of the Contract / Letter of Acceptance or found to have engaged in corrupt or fraudulent practices in competing for the award of contract / Letter of Acceptance or during the execution of the contract / Letter of Acceptance, the Purchaser may without prejudice to any other right of action / remedy it may have, blacklist the Contractor, either indefinitely or for a stated period, for future tenders in public sector, as per mechanism provided in Punjab Procurement Rules, 2014.

## 30. **Force Majeure**

Majeure means an act of nature or an event beyond the control of the Supplier and not

involving the Supplier's fault or negligence directly or indirectly purporting to misplanning, mismanagement and/or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee constituted for Redressal of grievances, shall examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and shall submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event.

### **31. TERMINATION FOR INSOLVENCY**

The Procuring Agency may at any time terminate the Contract by giving written notice of 30 days' time to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination shall be without compensation to the Supplier, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued or shall accrue thereafter to the Parties.

### **32. FORFEITURE OF PERFORMANCE SECURITY**

**32.1.** If the Contractor fails / delays in performance of any of the obligations, under the Contract / violates any of the provisions of the Contract / commits breach of any of the terms and conditions of the Contract the Purchaser may, without prejudice to any other right of action / remedy it may have, forfeit Performance Security of the Contractor.

**32.2.** Failure to supply required items/services within the specified time period will invoke penalty as specified in this document. In addition to that, Performance Security amount will be forfeited and the company will not be allowed to participate in future tenders as well.

### **33. PAYMENT**

**33.1.** 100% payment will be made by Lahore College for Women University to the Successful Bidder after delivery and installation of goods and on receipt of the following documents:

- i. Bill
- ii. Delivery Challan
- iii. General Sales Tax Invoice
- iv. Inspection/Completion report
- v. Bill of Entry of imported items

### **34. Warranty**

**34.1.** Warranty of items shall be as per required in the Schedule of Requirement (Clause No. 39)

- 34.2.** The Supplier shall confirm that the goods supplied under this contract are new and unused. The Supplier shall further warrant that all goods supplied under this contract shall have no defect arising from design materials or workmanship or from any act or omission of the supplier that may arise under the normal use of the supplied goods in the conditions prevailing in the University.
- 34.3.** During the warranty period the Successful Bidder will provide comprehensive warranty of the items. The Purchase Committee shall notify the supplier in writing of any claim arising under the warranty. Upon receipt of such notice, the supplier shall repair or replace the defective goods or parts within **ten days**, inclusive of, where applicable, the cost of inland delivery of the repaired or replaced goods or parts from the port of entry to the final destination and their installation.

**SPECIFICATIONS AND SCHEDULE OF REQUIREMENT  
AS FOLLOWS:**

**TENDER DOCUMENT PART ONE (01)**

**FOR LAHORE**

**Specific Terms and Conditions:**

- i- All the general tender terms and conditions of Lahore College for Women University to be adhered. The tender will follow Single Stage (Two Envelope Procedure)
- ii- The items are to be delivered / supplied / deployed / installed / commissioned / tested at Lahore College for Women University, Lahore
- iii- The bidders shall quote on FOR basis (in Pak Rupees). The prices shall be inclusive of all applicable taxes, charges, delivery, installation & services.
- iv- The bidders shall quote complete solution on **TURNKEY BASIS**
- v- Desktop Computer / Servers should have three years on-site warranty, including parts and labor
- vi- Quantity of supply may change according to University requirements. The supplier will be bound to accept the repeat orders as per quoted rates
- vii- Any equivalent / higher specifications with same functionality / performance and compatibility are equally acceptable / encouraged wherever a brand name is specified

**Items:**

SN	Item	Description	QTY
1	Camera with Speakerphones and Microphones	HD Video Camera: Logitech or Equivalent PTZ Pro or higher with business grade 6 speakerphones and 3 expansion microphones, optimized for 40 participants, extended 28 ft audio range and 90 degree field of view, Plug n play HD audio, plug n play USB connection, HD 1080p video with autofocus, digital pan / zoom / tilt, compatible with PC and MS Windows, caballing, fitting, commissioning	1
2	Power Amplifier	Pro mixing power amplifier CEO-PA CE-70P or equivalent, 70 watt heat fan, 70v, 100v, and 4 16ohm output, 3 mic input, 2 Aux input, 1 Aux output, 5 LED indicators of lever meter, mute functions for mic and EMC, individual volume, bass and treble controls, caballing, fitting, commissioning	1
3	LED Screens	Samsung / Orient / TLC or Equivalent 55" or Higher LED Screen	3
4	Computer Branded	HP / Dell / IBM / Lenovo or Equivalent Processor: 8th Generation Intel Core i5-8400 Processor or Higher, Memory: 4GB DDR4 Memory or Higher, Hard Disk Drive: 1TB 7200 RPM Hard Drive or higher, Graphics: Integrated graphics – Intel(R) HD Graphics [VGA] / Better, Network Adaptor: Integrated Ethernet port, Audio: Integrated Sound, Mouse & Keyboard: USB Optical Mouse & USB Keyboard, Operating System: DOS, Display: 18.5-inch LCD	1

**TENDER DOCUMENT PART TWO (02)****FOR LAHORE****Specific Terms and Conditions:**

- viii- All the general tender terms and conditions of Lahore College for Women University to be adhered. The tender will follow Single Stage (Two Envelope Procedure)
- ix- The items are to be delivered / supplied / deployed / installed / commissioned / tested at Lahore College for Women University, Lahore
- x- The bidders shall quote on FOR basis (in Pak Rupees). The prices shall be inclusive of all applicable taxes, charges, delivery, installation & services.
- xi- Desktop Computer / Servers should have three years on-site warranty, including parts and labor.
- xii- Quantity of supply may change according to University requirements. The supplier will be bound to accept the repeat orders as per quoted rates.
- xiii- Any equivalent / higher specifications with same functionality / performance and compatibility are equally acceptable / encouraged wherever a brand name is specified.

**Items:**

<b>SN</b>	<b>Item</b>	<b>Description</b>	<b>QTY</b>
1	Server		
	Form Factor	Must be 2U Rack Mountable Server	3
	Processor	2xIntel Xeon Gold series 20xCore, 2.1GHz Processors	
	Drive Slots	Chassis with 8x2.5 inch HDD slots, must support/upgradable upto 24 SFF drives	
	Security	Front Panel/Cover	
	Ports	3xUSB 3.0, 1xUSB 2.0, DB-9 type Serial Port, VGA ports, Micro SD Slot	
	Memory	192GB DDR4 Memory, must be upgradable to 1TB DDR4-2933 Memory or higher	
	Disks	2x480GB SSD for OS; 4x2.4TB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive	
	RAID Controller	RAID Controller, 12Gbps, 2GB Cache or more, must have battery for cache protection, Support RAID 0,1,5,6,10,50,60 Server Should support onboard SATA Software RAID Controller supporting SSD/HDD	
	Network	4x1G Base-T Network Ports	
	Expansion Slots	Required 3xPCIe slots, must support at least 6xPCIe slots (Other than RAID Controller slot)	
	Power Supply	2x800W or higher Hot-plug Power Supply	
	Cooling	Redundant Hot Plug Fans (Must support upto 6xHot Plug Fans)	
	Rack Mounting Accessories	Server Rack Mounting Kit with sliding rails and Cable Management Accessory	
	System Management	Embedded Remote Management with dedicated RJ45 port	
	Warranty	Warranty: 3 Year onsite warranty with NBD support	
	Supported OS	Support Microsoft Windows Server with Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi	
2	Network Switch		
	Switch	CISCO or equivalent 2960 TCL, 24 ports, Rack mountable	1
3	OTDR		
	Optical Time-Domain Reflectometer	OTDR Hsv-600 or equivalent or higher	1
4	Fiber Laser		
	Fiber Laser	Optical Fiber Laser Tester , 5KM	1

**TENDER DOCUMENT PART THREE (03)****FOR JHANG****Specific Terms and Conditions:**

- xiv- All the general tender terms and conditions of Lahore College for Women University to be adhered. The tender will follow Single Stage (Two Envelope Procedure)
- xv- The items are to be delivered / supplied / deployed / installed / commissioned / tested at Constituent College of Arts and Sciences, University of Jhang (formerly known as Jhang Campus of Lahore College for Women University)
- xvi- The bidders shall quote on FOR basis (in Pak Rupees). The prices shall be inclusive of all applicable taxes, charges, delivery, installation & services
- xvii- The bidders shall quote **Part B** (complete) on **TURNKEY BASIS**
- xviii- Desktop Computer / Servers should have three years on-site warranty, including parts and labor.
- xix- One year Smartnet (if CISCO) / Equivalent (if otherwise) should be delivered exclusive of CISCO / equivalent (respectively) general warranty period
- xx- Quantity of supply may change according to University requirements. The supplier will be bound to accept the repeat orders as per quoted rates.
- xxi- Any equivalent / higher specifications with same functionality / performance and compatibility are equally acceptable / encouraged wherever a brand name is specified.
- xxii- Any combination of specifications for a specific item, providing the same overall functionality (as mentioned), in any brand is acceptable / encouraged.

**Part A: On FOR Basis (in Pak Rupees)**

SN	Item	Description	QTY
<b>Computer System</b>			
1	Desktop Computer	HP / Dell / IBM or Equivalent	
	Processor	8th Generation Intel Core i5-8400 Processor or equivalent or Higher	320
	Memory	4GB DDR4 Memory or Higher	
	Hard Disk Drive	1TB 7200 RPM Hard Drive or higher	
	Graphics	Integrated graphics – Intel(R) HD Graphics [VGA] / equivalent / Better	
	Network Adaptor	Integrated Ethernet port.	
	Audio	Integrated Sound	
	Mouse & Keyboard	USB Optical Mouse & USB Keyboard	
	Operating System	DOS	
	Display	18.5-inch LCD	
<b>Server</b>			
2	Server	HP / Dell / IBM or Equivalent	
		1xIntel® Xeon® E-2126G 3.3GHz, 12M cache, 6C/6T, turbo or equivalent or Higher	03
		2.5" Chassis with up to 8 Hot Plug Hard Drives	
		PowerEdge 1U Standard Bezel	
		1x8GB 2666MT/s DDR4 ECC UDIMM or Better	
		3x1.2TB 10K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive	
		RAID Controller, Adapter	
		On-Board Broadcom 5720 Dual Port 1Gb LOM	
		PCIe Riser without Fan with up to 2 PCIe Gen3 Slots	
		ReadyRails™ Sliding Rails With Cable Management Arm	
		Single, Hot-plug Power Supply, 350W	
		2xJumper Cord - C13/C14, 250V, 10A	
		Remote Management Software	
		Warranty: 3Year Onsite Service	
<b>Network Printer</b>			
3	Network Printer	HP LaserJet Pro 400 M402DN or Equivalent or Higher	08
<b>PABX</b>			
4	PABX	Panasonic NS 600 with at least 08 CO & 200 Intercom Ext. including Voice, DISA, CLI and Standard Battery Bank Backup or Equivalent or Higher	01
		Programming, Installation, Commissioning and Testing	
<b>Multimedia Projector</b>			
5	Multimedia	Multimedia Projector 3000 Lumens or Higher, with Ceiling Mounting Kit and Wall Mont Screen 8x10	07
<b>Scanner</b>			
6	Scanner	HP SCANJET G3110 Photo Scanner or Equivalent or Higher	08
<b>Photocopier Heavy Duty</b>			

7	Photocopier		
		Black & White Multifunction system with Automatic Document Feeder (ADF). Paper size from A5 to A3, Letter 50ppm, Legal 32 ppm, automatic double sided copying, 1,200X600 dpi resolutions or higher, 512MB RAM, Ethernet Connectivity	02
<b>UPS</b>			
8	UPS		
		10 KVA UPS, pure sinewave, dry battery with standard backup of at least 15 mins	12

**Part B: On FOR (in Pak Rupees) & TURNKEY basis for Serial No. 1 - 4 Single Bidder Complete Solution (On-site Commissioning, Installation, Configuration & Testing required)**

SN	Item	Description	QTY	
<b>Network / Lab Active Components</b>				
1	Active Components	CISCO or equivalent		
<b>(i) Core Switch</b>	<i>Reference Model for Minimum Overall functionality</i>	C9407R	Cisco Catalyst 9400 Series 7 slot chassis	1
		CON-SSSNT-C9407R	SOLN SUPP 8X5XNBD Cisco Catalyst 9400	1
		C9400-PWR-BLANK	Cisco Catalyst 9400 Series Power Supply Blank Cover	6
		C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	4
		C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	1
		S9400UK9-1610	Cisco Catalyst 9400 XE 16.10 UNIVERSAL	1
		C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	2
		CAB-CEE77-C19-EU	CEE 7/7 to IEC-C19 13ft Europe	2
		PI-LFAS-T	Prime Infrastructure Lifecycle & Assurance Term - Smart Lic	2
		PI-LFAS-AP-T-3Y	PI Dev Lic for Lifecycle & Assurance Term 3Y	2
		C9400-SUP-1XL	Cisco Catalyst 9400 Series Supervisor 1XL Module	1
		C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory (Supervisor)	1
		C9400-LC-48T	Cisco Catalyst 9400 Series 48-Port 10/100/1000 (RJ-45)	1
		C9400-LC-24S	Cisco Catalyst 9400 Series 24-Port Gigabit Ethernet (SFP)	1
		NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	1
		C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	1
C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	1		
GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	24		

	<p><b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b></p> <p><u>Core Switch</u></p> <ul style="list-style-type: none"> <li>• The switch should have 24 x 1G Fiber Ports</li> <li>• The switch should have 48 x 1G Copper Ports</li> <li>• The switch should have at least 2 x 40G QSFP Ports and 8 x 10G SFP+ ports</li> <li>• The switch should support at least 1.24 Tbps of switching capacity and 899 mpps of forwarding rate</li> <li>• The switch should have dedicated slots for Redundant Switch Fabric or Control card module</li> <li>• The control card should have at least 16GB DRAM and 10GB Flash</li> <li>• The control card should also include at least 950 GB of SSD capacity</li> <li>• At least 3 Interface slots should be available for future capacity expansion after filling the required interface modules</li> <li>• Should support PoE and PoE+ and should be able to provide PoE+ on more than 374 ports simultaneously</li> <li>• The switch should support at least 64K MAC addresses</li> <li>• Should support more than 139K IPv4 Routes</li> <li>• Should support more than 54K IPv6 Routes</li> <li>• Should support more than 14999 Security ACLs</li> <li>• Should include full layer 3 functionality</li> <li>• Should support LAN automation</li> <li>• Should support analysis of Encrypted traffic</li> <li>• Should support AES-256 MACSEC encryption</li> <li>• Should have features such as BGP, VRRP, IS-IS, MSDP, PIM SM, PIM SSM, IP SLA, OSPF</li> <li>• Should support programmability and automation using Netconf/RESTconf/YANG etc.</li> <li>• Support for software image management and patch life cycle management</li> <li>• Support for netflow</li> <li>• Support for built-in troubleshooting tools such as WireShark.</li> <li>• Should support internal field replaceable Platinum rated power supplies</li> </ul> <p><u>Optical Transceiver</u></p> <ul style="list-style-type: none"> <li>• Should be in small factor pluggable module form supporting 1Gbps Data Rate.</li> <li>• Should be compatible with active components mentioned in the RFP without compromising their principal's hardware warranty.</li> <li>• Should be compatible with the IEEE 802.3z 1000BASE-LX standard</li> <li>• Should be able to operate on standard single-mode fiber-optic link spanning up to 10 km and up to 550 m on any multimode fibers</li> <li>• Should support use over legacy multimode fiber type</li> <li>• Should support coupling through a mode conditioning patch cable.</li> </ul>			
<p><b>(ii)</b> <b>Core Router</b></p>	<p><i>Reference Model for Minimum Overall functionality</i></p>			
		ISR4431-SEC/K9	Cisco or equivalent ISR 4431 Sec bundle w/SEC license	1
		CON-SNT-ISR4431S	SNTC-8X5XNBD Cisco ISR 4431 Sec b	1
		CAB-ACE	AC Power Cord (Europe), C13, CEE 7, 1.5M	1
		SL-44-IPB-K9	IP Base License for Cisco or equivalent ISR 4400 Series	1
		MEM-4400-DP-2G	2G DRAM (1 DIMM) for Cisco or equivalent ISR 4400 Data Plane	1
		MEM-FLSH-8G	8G eUSB Flash Memory for Cisco or equivalent ISR 4430	1
		SL-44-SEC-K9	Security License for Cisco or equivalent ISR 4400 Series	1
		PWR-4430-AC	AC Power Supply for Cisco or equivalent ISR 4430	1
		SISR4400UK9-166	Cisco or equivalent ISR 4400 Series IOS XE Universal	1
		NIM-BLANK	Blank faceplate for NIM slot on Cisco or equivalent ISR 4400	3
		PWR-COVER-4430	Cover for empty 2nd Power Supply slot on Cisco or equivalent ISR 4430	1
		MEM-44-4G	4G DRAM (1 x 4G) for	1

			Cisco or equivalent ISR 4400	
	<p><b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b></p> <ul style="list-style-type: none"> <li>The router should support high availability and security features. The security license should be part of the Solution.</li> <li>The router should have at least 4 x 1G WAN ports.</li> <li>Router should have at least 3 x Interface slots supporting different interfaces such as LAN/WAN, E1/PRI etc.</li> <li>Throughput of the router should be at least 499.99 Mbps and should be upgradable to at least 3.99 Gbps with simple license upgrade.</li> <li>Should support voice features such SIP/H.323, Media Gateway</li> <li>Should support redundant power supplies</li> <li>Should have a minimum 8 GB Flash (Must be expandable to 32 GB)</li> <li>Should have a minimum 4 GB DRAM (Must be expandable to 16 GB)</li> <li>Should support Next Generation Encryption features as below: <ul style="list-style-type: none"> <li>➤ AES-128-GCM for Authenticated Encryption</li> <li>➤ HMAC-SHA256 for Authentication</li> <li>➤ ECDSA-P256 for Digital Signatures</li> <li>➤ SHA, SHA-256, SHA-384, SHA-512</li> <li>➤ ECDH-P256 for Key Establishment.</li> <li>➤ RSA (748/1024/2048 bit)</li> <li>➤ MD5</li> </ul> </li> <li>Router should support High availability (Active-Active, Active-Standby VRRP)</li> <li>The router should support routing protocols such as RIP v1/v2, IS-IS, OSPF v2, 3, BGP, PBR etc.</li> <li>Should support Intelligent Routing and Application Visibility.</li> <li>Should support IPv6.</li> <li>Should support MPLS.</li> <li>Should support Software Defined WAN</li> <li>Should support WAN optimization features as below: <ul style="list-style-type: none"> <li>➤ TCP Flow Optimization</li> <li>➤ Persistent LZ Compression</li> <li>➤ DRE Compression</li> <li>➤ Application Optimizations for file sharing, emails, web apps, enterprise apps etc.</li> </ul> </li> </ul>			
<b>(iii) Firewall</b>	<b>Reference Model for Minimum Overall functionality</b>	FPR2110-BUN	Cisco Firepower 2110 Master Bundle	1
		FPR2110-NGFW-K9	Cisco Firepower 2110 NGFW Appliance, 1U	1
		CON-SSSNT-FPR21FWN	SOLN SUPP 8X5XNBD Cisco Firepower 2110 NGFW Appliance, 1U	1
		CAB-ACU	AC Power Cord (UK), C13, BS 1363, 2.5m	1
		SF-F2K-TD6.3-K9	Cisco Firepower Threat Defense software v6.3 for FPR2100	1
		FPR2K-SSD100	Firepower 2000 Series SSD for FPR-2110/2120	1
		FPR2K-SSD-BBLKD	Firepower 2000 Series SSD Slot Carrier	1
		L-FPR2110T-TMC=	Cisco FPR2110 Threat Defense Threat, Malware and URL License	1
		L-FPR2110T-TMC-3Y	Cisco FPR2110 Threat Defense Threat, Malware and URL 3Y Subs	1
	<p><b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b></p> <ul style="list-style-type: none"> <li>Enterprise Class State-full Next Generation Firewall</li> <li>Must be among top 4 vendors in Gartner NGFW MQ and NGIPS MQ</li> <li>Required 10 x 1GE Copper and 4x 1GE SFP Interfaces</li> <li>Required NGFW + NGIPS (threat protection) throughput at least 2 Gbps at 1024Bytes</li> <li>Required maximum L7 concurrent session 1 million</li> <li>Required more than 11.99k L7 connections per second or higher</li> <li>The firewall should support Layer 1, Layer 2 and Routed mode deployment</li> <li>NGIPS with full contextual awareness of users, infrastructure, applications, and content to detect multi-vector threats</li> <li>Required granular Application Visibility and Control with support for at least 5,000 applications</li> <li>Required NGIPS signature for at least 15,999 with the ability to add custom signatures</li> <li>The firewall should have at least 100GB of SSD to storage for event logs, malware files, IPS signatures, etc.</li> </ul>			



- Detection of Geo location of IP Addresses
- The firewall should support SSL decryption to enforce NGFW & NGIPS policies
- SSL decryption throughput of at least 349.99 Mbps (100% TLS 1.2 Traffic with AES256-SHA) should be supported
- The proposed firewalls shall support standards-based link aggregation (IEEE 802.3ad)
- The firewall should support SSL decryption of the published web servers using the certificate server of the servers and applying the layer 7 policies
- The firewall should support rate-limiting traffic on the basis of users, applications, AD groups, etc.
- Identify and control applications on any port, not just standard ports (including applications using HTTP or other protocols)
- Identify and control applications sharing the same connection
- Integrate with Microsoft Active Directory Server for implementing user-based application access control
- Support creation of security policy based on AD Users and Groups in addition to source/destination IP
- Support AAA, RADIUS, SNMP
- Support detection and prevention against tunnel /encapsulated attacks, p2p application related threats
- Protect against IP and TCP fragmentation related attacks
- Automated threat feed and IPS signature updates
- Automated threat correlation
- OpenAppID support for custom, open source, application detectors
- Integration with Snort and OpenAppID - Open source security integration with Snort and OpenAppID for access to community resources and ability to easily customize security to address new and specific threats and applications quickly
- Full contextual awareness policy enforcement based on complete visibility of users, mobile devices, client-side applications, communication between virtual machines, vulnerabilities, threats, and URLs
- Allow administrators to create custom IPS signatures
- When an IPS signature is matched, the following configurable actions can be automatically taken:
  - Detailed attack logging with hyperlink to IPS encyclopedia references
  - In-built email alerts
  - SNMP traps
  - Packet logging for forensic studies
  - Pass, block or reset sessions
- Should support Advance Malware Protection to prevent network breaches and rapidly detect, contain, and remediate threats if they evade front-line defenses (Internet security layer). Bidder to explain how this will be achieved
- Detect, store, track, analyze, and optionally block malware files being transmitted from Internet to internal corporate network
- Analyzes files at point of entry to catch known and unknown malwares
- Block malware trying to enter the Data Center network in real time by using one-to-one signature matching (know file sigs), machine learning, fuzzy fingerprinting, and dynamic file analysis technologies
- Continuously monitors and analyzes all file activity, processes, and communications. If a file exhibits malicious behavior, the device must detect it and provide retrospective alerts, indications of compromise, tracking, and analysis, so IT security teams can surgically remediate it
- The solution must have file detection policies and blocking of files by types, protocols and directions.
  - Protocols: FTP, HTTP, SMTP, IMAP, POP3 and NetBIOS
  - Direction: Upload, Download, Both
  - File Types: Office Documents, Archive, Multimedia, Executable, PDF, Encoded, Graphics, and System Files
- Provide multiple mechanisms for classifying applications and application identification technology based upon Intrusion Prevention System (IPS) or deep packet inspection.
- Proposed Firewalls solution must be centrally managed from Web-Based Graphical User Interface (GUI)
- Should support SNMP, SYSLOG and Netflow/ SFlow/ Jflow
- The proposed firewalls shall have a reporting management system capable of generating reports on a manual ad-hoc or schedule (daily, weekly, monthly, etc) basis.
- The management platform must include an integration mechanism, preferably in the form of open APIs and/or standard interfaces, to enable events and log data to be shared with external network and security management applications, such as trouble-ticketing systems, Security Information and Event Managers (SIEMs), systems management platforms, and log management tools.
- The solution should be able to send alert messages at least through all of the below mechanisms.
  - Console Alerting
  - Email

	<ul style="list-style-type: none"> <li>The management platform must include an integration mechanism, preferably in the form of open APIs and/or standard interfaces, to export SNMP information to network management systems.</li> <li>One Year Subscription required for all required features (NGFW, NGIPS and Advance Malware Protection)</li> <li>1 Years OEM Hardware Replacement and partner support on-premise</li> </ul>			
(iv) Access Layer Switch	<i>Reference Model for Minimum Overall functionality</i>	WS-C2960+24TC-L	Catalyst 2960 Plus 24 10/100 + 2T/SFP LAN Base	26
		CON-SNT-WSC296TC	SNTC-8X5XNBD Catalyst 2960 Plus 24 10/100 + 2T/SFP LA	26
		CAB-ACU	AC Power Cord (UK), C13, BS 1363, 2.5m	26
		GLC-LH-SMD=	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	14
	<b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b> <ul style="list-style-type: none"> <li>The Access Switch should have 24 x 10/100/1000 Mbps downlink interfaces.</li> <li>The switch should have at least 4 x 1G interfaces for uplink separately.</li> <li>Should provide at least 49.99 Gbps switching capacity.</li> <li>Should provide at least 39.99 Mpps forwarding rate.</li> <li>Should support at least 32K MAC Addresses</li> <li>Should be able to support full layer 3 routing functionality such as OSPF, IS-IS by simply software/subscription upgrade.</li> <li>Should be able to support VXLAN by simply software/subscription upgrade.</li> <li>Should support LAN automation.</li> <li>Should support health monitoring of the switch as well as the wired clients connected with the switch.</li> <li>Should support analysis of Encrypted traffic.</li> <li>Should support MACSEC encryption on both access and uplink ports.</li> <li>Should support programmability and automation using Netconf/RESTconf/YANG etc.</li> <li>Support for software image management and patch life cycle management.</li> <li>Should support cold patching.</li> <li>Should support RFID.</li> <li>Support for netflow.</li> <li>Support for built-in troubleshooting tools such as Wireshark.</li> <li>Should support optional dedicated stack module for stacking with at least 8 stack members and 79.99 Gbps of stack bandwidth.</li> <li>Should have 2GB DRAM and 4GB Flash.</li> <li>Should support internal 1+1 redundant Platinum rated, power supplies.</li> </ul>			
(v) Wireless AP	<i>Reference Model for Minimum Overall functionality</i>	AIR-AP1852I-C-K9C	Cisco or equivalent Aironet Mobility Express 1850 Series	16
		CON-SNT-AIRAP182	SNTC-8X5XNBD 802.11ac Wave 2; 4x4:4SS; Int Ant; C Reg	16
		SW1850-MECPWP-K9	Cisco or equivalent 1850 Series Mobility Express Software Image	16
		AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	16
		AIR-AP-BRACKET-1	802.11 AP Low Profile Mounting Bracket (Default)	16
		AIR1850-DNA-OPTOUT	CISCO or equivalent DNA SUBSCRIPTION OPTOUT for AIR1850	16
	<b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b> <ul style="list-style-type: none"> <li>The Access Point should be 802.11ac wave 2 with 4x4 MIMO and 4 Spatial Streams supporting up to 2 Gbps data rate</li> <li>Should include beamforming feature</li> <li>Should support built-in WLC functionality by just changing the software</li> <li>Should support BLE</li> <li>Should support Rogue device detection</li> <li>Should have integrated antennas with up to 3 dBi gain on 2.4 GHz radio and 5 dBi gain on 5GHz radio</li> <li>Should have 2 x 10/100/1000 Mbps auto sensing ports</li> <li>Should support PoE</li> <li>Should have at least 1 GB DRAM and 256 MB flash</li> </ul>			
(vi) NMS	<i>M i n i m u m</i>	R-MGMT3X-N-K9	Cisco or equivalent Ent MGMT: Lic For Prime Infrastructure 3.x	1

		CON-ECMU-RMGMT3XN	SWSS UPGRADES Cisco MGMT: Lic For Prime Infra 3.x And	1
		L-MGMT3X-2K-K9	Cisco or equivalent Ent MGMT: PI 3.x LF,AS , 1 Cat 2K	20
		CON-ECMU-LMGMT32X	SWSS UPGRADES Cisco or equivalent Ent MGMT: PI 3	20
		L-MGMT3X-4K-K9	Cisco or equivalent Ent MGMT: PI 3.x LF,AS , 1 Cat 4K	1
		CON-ECMU-LMGMT4KK	SWSS UPGRADES Cisco or equivalent Ent MGMT:PI 3.x LF,AS APIC-EM L	1
		L-MGMT3X-PI-BASE	Cisco or equivalent Ent MGMT: PI 3.x Platform Base Lic	1
		CON-ECMU-LMGMBASE	SWSS UPGRADES Cisco or equivalent Ent MGMT PI 3.x Platform Base Lic	1
		R-PI35-SW-K9	Prime Infrastructure 3.5 Software	1
		CON-ECMU-RPI35SWK	SWSS UPGRADES Prime Infrastructure 3.5 Software	1
		L-MGMT3X-ISR4-K9	Cisco or equivalent Ent MGMT: PI 3.x LF, AS , 1 ISR4K	1
		CON-ECMU-LMGMT3IS	SWSS UPGRADES Cisco or equivalent Ent MGMT PI 3.x LF, AS APIC-EM	1
	<p><b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b></p> <ul style="list-style-type: none"> <li>• The NMS should be an appliance-based solution (i.e. bundled operating system and NMS Application) with licenses included for the proposed network components</li> <li>• The proposed NMS should be the single point of management for the whole network.</li> <li>• Should provide provisioning and configuration capabilities for the network</li> <li>• Should provide compliance and change management</li> <li>• Should provide application visibility into the network</li> <li>• The NMS should provide remediation actions for any issues in the network</li> <li>• Should provide feature rich HTML 5.0 based user interface</li> <li>• Should provide customization of alarms</li> </ul>			
<b>(vii) Wireless Controller</b>	<i>Reference Model for Minimum Overall functionality</i>	AIR-CT3504-K9	Cisco 3504 Wireless Controller or equivalent	1
		CON-SNT-AIRCTRTK	SNTC-8X5XNBD Cisco 3504 Wireless Controller or equivalent	1
		CAB-AC-C5-UK	AC Power Cord, Type C5, UK	1
		PWR-115W-AC	Cisco 3504 Wireless Controller Power Supply or equivalent	1
		AIR-CT3504-SW-8.5	Cisco 3504 Wireless Controller SW Rel. 8.5 or equivalent	1
		LIC-CT3504-1A	Cisco 3504 Wireless Controller 1 AP Adder License or equivalent	50
		CON-ECMU-LICCTCTA	SWSS UPGRADES Cisco 3504 Wireless Controller 1 AP Adde or equivalent	50
		<p><b>Description (Any equivalent brand providing the same overall functionality is acceptable / encouraged)</b></p> <ul style="list-style-type: none"> <li>• The proposed WLC should be hardware based and include licenses for 50 Access Points</li> <li>• The WLC should be able to support up to 149 Access Points</li> <li>• The WLC should support up to 2999 clients</li> <li>• The WLC should have at least 4 x 1G ports + 1 x Multigigabit port</li> <li>• The WLC should be 802.11ac ready and must support up to 3.99 Gbps throughput</li> <li>• Should support fan-less operation and there should be no moving parts</li> <li>• Should support optimization of video applications</li> <li>• Should support local data switching in case AP link with WLC goes down</li> <li>• Should provide secure guest access</li> <li>• Should support real time and historical information about air interference</li> <li>• Should provide integration with the proposed NMS</li> <li>• Should support below security standards <ul style="list-style-type: none"> <li>➢ RFC 2104 HMAC: Keyed Hashing for Message Authentication</li> <li>➢ RFC 2246 Transport Layer Security (TLS) Protocol Version 1.0</li> <li>➢ RFC 2401 Security Architecture for the Internet Protocol</li> <li>➢ RFC 2403 HMAC-MD5-96 within ESP and Authentication Header (AH)</li> <li>➢ RFC 2404 HMAC-SHA-1-96 within ESP and AH</li> <li>➢ Wi-Fi Protected Access (WPA)</li> <li>➢ IEEE 802.11i (WPA2, RSN)</li> <li>➢ RFC 1321 MD5 Message-Digest Algorithm</li> <li>➢ RFC 1851 Encapsulating Security Payload (ESP) Triple Data Encryption Standard (3DES) Transform</li> <li>➢ RFC 3280 Internet X.509 Public Key Infrastructure (PKI) Certificate and Certificate</li> </ul> </li> </ul>		

	<ul style="list-style-type: none"> <li>➤ Revocation List (CRL) Profile</li> <li>➤ RFC 4347 Datagram Transport Layer Security</li> <li>➤ RFC 5426 TLS Protocol Version 1.2</li> <li>➤ RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV</li> <li>➤ RFC 2407 Interpretation for Internet Security Association and Key Management Protocol (ISAKMP)</li> <li>➤ RFC 2408 ISAKMP</li> <li>➤ RFC 2409 Internet Key Exchange (IKE)</li> <li>➤ RFC 2451 ESP Cipher Block Chaining (CBC)-Mode Cipher Algorithms</li> <li>• Should support below AAA Standards for NAC Framework implementation <ul style="list-style-type: none"> <li>➤ RFC 2869 RADIUS Extensions</li> <li>➤ RFC 3576 Dynamic Authorization Extensions to RADIUS</li> <li>➤ RFC 5176 Dynamic Authorization Extensions to RADIUS</li> <li>➤ RFC 3579 RADIUS Support for EAP</li> <li>➤ RFC 3580 IEEE 802.1X RADIUS Guidelines</li> <li>➤ RFC 3748 EAP</li> <li>➤ IEEE 802.1X</li> <li>➤ RFC 2548 Microsoft Vendor-Specific RADIUS Attributes</li> <li>➤ RFC 2716 Point-to-Point Protocol (PPP) Extensible Authentication Protocol (EAP)-TLS</li> <li>➤ RFC 2865 RADIUS Authentication</li> <li>➤ RFC 2866 RADIUS Accounting</li> <li>➤ RFC 2867 RADIUS Tunnel Accounting</li> <li>➤ Web-based authentication</li> <li>➤ TACACS support for management users</li> </ul> </li> </ul>		
<b>Network / Lab Passive Components</b>			
2	<b>Passive Components</b>		
<b>Copper Installation</b>	Data Cabinets	42 U Data Cabinet with standard Accessories	1
	Data Cabinets	4 U Wall Mounted Data Cabinet with standard Accessories (for access fiber switches)	24
	Patch Panel	lassic Patch Panel, 24 Ports, keystone brushed Aluminum loaded with Cat6 UTP jack (Tool less, with shutter) ( Clipsal, Molex or Equivalent)	30
	Cable Roll	Cat 6 UTP,23AWG LSZH, 4Pair Cable Roll ( Clipsal, Molex, Hansen or Equivalent)	70
	RJ45 I/O	Cat 6 RJ45 ONE-CLICK JACK UTP (Clipsal, Molex or Equivalent)	740
	Face Plate	British Faceplate, Empty ,One Click(Clipsal, Molex or Equivalent)	640
	Back Box	Back Box for Face Plate(Clipsal, Molex or Equivalent)	640
	Patch Cords	Cat 6 Patch Cord U1 P PVC 3 m(Clipsal, Molex or Equivalent)	390
	Patch Cords	Cat-6 Patch Cord UTP PVC 1 m(Clipsal, Molex or Equivalent)	540
	Duct	25x25 Duct 10 ft length(Adam Jee or equivalent)	100
	Duct	25x38 Duct 10 ft length(Adam Jee or equivalent)	100
	Duct	40x40 Duct 10 ft length(Adam Jee or equivalent)	50
	Cable Tags		6
	Installation & Configuration	Cable Laying, Installation Face Plates & RJ45 Connecters.	12500 Meter
<b>Fiber with Installation</b>			
3	<b>Fiber</b>		
<b>Fiber Installation</b>	Fiber Optic Cable	8 core Single mode Duct Burried Fiber optic cable ( Molex, Hansen or Equivalent)	250 Meter
	Fiber Optic Cable	24 core Single mode Duct Buried Fiber optic cable ( Molex, Hansen or Equivalent)	1550 Meter
	Fiber Patch Panel	4 SC Duplex Port Patch Panel complete with SC connectors ( Clipsal, Molex or Equivalent)	1
	Fiber ODF	6 SC Duplex Port Fiber distribution frame ( Clipsal, Molex or Equivalent)	18
	Fiber Patch Cords	SC-LC Fiber Patch Cord 3-meter ( Clipsal, Molex or Equivalent)	36
	Fiber Pigtaills	Fiber SC Pigtaills 1.5meter ( Clipsal, Molex or Equivalent)	72
	RCC Pipe	RCC Pipe 4" with joints and Accessories	1750 Meter
	PVC Pipe	2" PVC Underground	250 Meter
	Flexible Pipe	Iron Flexible Pipe 2" With Clumps and Accessories	83 Meter
	<b>Installation</b>		
	Manhole	3x3x3 Man hole with 9" Wall and Plaster from inside, covered with 4" thick Slap using 3mm iron rods.	36
	Boaring	Road boring and cable laying in Concrete area	100

			Meter	
	Fiber Splicing	Fiber optic cable splicing	72	
	Fiber Digging	Hard and Soft Digging with Refilling	1750 Meter	
	Fiber Laying	Fiber laying charges	2000 Meter	
<b>Video Conferencing Facility</b>				
4	Equipment			
<b>Video Conferencing Facility</b>		Video conferencing equipment device system Huawei Model TE50-1080p30 or equivalent	1	
		Camera Huawei model vpc620 or equivalent or higer	1	
		Speakers TOA model BS-1030B	1	
		Amplifier TOA model A-1121	1	
		LED Screen 42 “ or Higher	1	
		Microphone Huawei model vpm220 or equivalent	1	
		Accessories ( connecting wires , converters , pins etc )	1	
		Sympodium ID350 or equivalent or Higher	1	
		Multimedia Projector 3000 Lumens or Higher, with Ceiling Mounting Kit and Wall Mont Screen 8x10	1	
		<b>Furniture &amp; Fixture</b>		
		Wooden Rostrum	As per sample at Lahore Campus Video Conferencing Site	01
		Wooden Rack	As per sample at Lahore Campus Video Conferencing Site	01
		Conference Tables	As per sample at Lahore Campus Video Conferencing Site	15
	Conference Chairs	As per sample at Lahore Campus Video Conferencing Site	45	
	AC Cabinets	4 Ton or Higher	02	

**TENDER DOCUMENT PART FOUR (04)****FOR LAHORE****Specific Terms and Conditions:**

- xxiii- All the general tender terms and conditions of Lahore College for Women University to be adhered. The tender will follow Single Stage (Two Envelope Procedure)
- xxiv- The items are to be delivered / supplied / deployed / installed / commissioned / tested at Lahore College for Women University, Lahore
- xxv- The bidders shall quote on FOR basis (in Pak Rupees). The prices shall be inclusive of all applicable taxes, charges, delivery, installation & services.
- xxvi- One year Smartnet (if CISCO) / Equivalent (if otherwise) should be delivered exclusive of CISCO / equivalent (respectively) general warranty period.
- xxvii- Quantity of supply may change according to University requirements. The supplier will be bound to accept the repeat orders as per quoted rates.
- xxviii- Any equivalent / higher specifications with same functionality / performance and compatibility are equally acceptable / encouraged wherever a brand name is specified.

**Items:**

<b>SN</b>	<b>Item</b>	<b>Description</b>	<b>QTY</b>
<b>Network Switch</b>			
1	Network Switch	CISCO or equivalent	
	WS-C2960+24TC-L	Catalyst 2960 Plus 24 10/100 + 2T/SFP LAN Base	09
	CON-SNT-WSC296TC	SNTC-8X5XNBD Catalyst 2960 Plus 24 10/100 + 2T/SFP LA	
	CAB-ACU	AC Power Cord (UK), C13, BS 1363, 2.5m	

**TENDER DOCUMENT PART FIVE (05)****FOR LAHORE*****Specific Terms and Conditions:***

- xxix- All the general tender terms and conditions of Lahore College for Women University to be adhered. The tender will follow Single Stage (Two Envelope Procedure)
- xxx- The items are to be delivered / supplied / deployed / installed / commissioned / tested at Lahore College for Women University, Lahore
- xxxi- The bidders shall quote on FOR basis (in Pak Rupees). The prices shall be inclusive of all applicable taxes, charges, delivery, installation & services.
- xxxii- Quantity of supply may change according to University requirements. The supplier will be bound to accept the repeat orders as per quoted rates.

***Items:***

SN	Item	Description	QTY
<b>Furniture items</b>			
1.		VDI Desks as per sample	30
2.		Computer Chairs as per sample	30

**Items:**

<b>SN</b>	<b>Item</b>	<b>Description</b>	<b>QTY</b>
<b>Furniture items for Pharmacy Department</b>			
1.	Executive Wooden office Table with Glass Drawers and	locks as per sample	01
2.	Executive Office Revolving chair as per sample		02
3.	Wooden glass Almirah with cabinets and locks	7x4 as per sample	02
4.	Revolving office chairs for faculty as per sample		08
5.	Wooden computer table as per sample		02
6.	Wooden serving table (small ) (set of Three) as per sample		02



## Annexure- A                      Technical Proposal Covering Letter

To  
Chairperson Purchase Committee

Lahore College for Women University,

Lahore

Dear Sir,

We are hereby submitting our Proposal, which includes the Technical Proposal and the Financial Proposal sealed in two separate envelopes. We have attached the **Technical Bid Form, Check List, Detailed Specifications** and the required **supporting documents** along with our Technical Bid.

Yours sincerely,

Authorized Signature

(In full and initials)

Name and Designation of Signatory Name of Firm Address

## Annexure- B                      Check List

The bidder must attach this list along with the Bid

### 1.1.      Packing of the Bid

S#	Description	YES/NO
1	Whether the Bid is submitted in <b>Two Envelopes</b>	
2	<b>Technical Proposal</b> <i>Envelope A</i>	
3	<b>Financial Proposal</b> <i>Envelope B</i>	
4	Whether both Technical and Financial Proposals are put into another <b>Outer Envelope.</b>	

### 1.2.      SUBMISSION AND ARRANGEMENT OF SUPPORTING DOCUMENTS

The Bidder must provide all the Supporting Documents, number all the pages of supporting documents, provide the page information and arrange the documents in the following order:

Envelope A: Enclosures of Technical Proposal		Attached YES/NO	Page#
1	<b>Check List</b>		
2	<b>Covering Letter</b>		
3	Technical Bid Form duly signed and Stamped by the Bidder		
4	Specifications of quoted items on the Letter Head of the bidder		
5	Copy of <b>Income Tax Registration Certificate</b>		
6	Copy of <b>Sales Tax Registration Certificate</b>		
7	<b>Affidavit/Undertaking</b> on the Stamp Paper		
10	Two Supply Orders for supply of relevant items received in the past		
11	Proof of Sales of the Company		
12	List of Staff		
13	The specified <b>catalogues / brochures</b> of items quoted by the bidder		
<b>Note:</b> All the above documents and any other supporting document must be numbered and page number must be mentioned in the column specified for the purpose.			
<b>Total Number of pages attached with the Technical Bid</b>		_____ Pages	

14	<b>Tender Document</b> duly signed and stamped each page by the bidder must be attached at the end of the Technical Bid but numbering is not required for this document.
----	--

<b>Envelope B : Enclosures of Financial Proposal</b>		<b>Attached YES/No</b>	<b>Page #</b>
1	Financial Proposal Covering Letter		
2	Price Schedule Form duly filled, signed and stamped by the bidder		
3	Bid Security in shape of CDR		

### **Annexure- C                      BID FORM**

#### **Technical Bid Form**

<b>S #</b>	<b>Particulars</b>	<b>Bidder's Response</b>
<b>A</b>	<b>Information about the Bidder</b>	
	Name of the Company	
	Year of Incorporation/Registration	
	NTN Registration Number	
	GST Registration Number	
	Address	
	Office Telephone Number	
	Email Address of the Company	
	Name of Contact Person	
	Mobile No. of Contact Person	
	Email Address of Contact Person	

<b>B- Past Performance (Detail of Top Two Supply Orders for supply of relevant items received in the past)</b>						
<b>S#</b>	<b>Name of Project</b>	<b>PO/LOA/ Contract No &amp; Date</b>	<b>Value of Project in PKR</b>	<b>Item Detail</b>	<b>Customer (Name of Institution)</b>	<b>Customer Contact Person Name and Phone No.</b>
1						
2						
<b>Total Value of Five Projects (Rs)</b>						

### **Annexure- D                      AFFIDAVIT/BIDDER'S UNDERTAKING ON THE STAMP PAPER**

Ref: **Tender No. LCWU/Tender/2020-2021/05 published on PPRA on**

1. We have examined the Tender/Bid Document and we undertake to meet the requirements regarding supply of Items, warranty and services as required and are prescribed in the Tender Document.
2. It is certified that the information furnished here in and as per the document submitted is true and correct and nothing has been concealed or tampered with.
3. We have read the provisions of Tender/Bid Document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our

response shall not be given effect to.

4. We agree to unconditionally accept all the terms and conditions set out in the Tender/Bid Document
5. We undertake, if our Bid is accepted, to supply the items within the delivery period mentioned in the Tender Document.
6. We understand that no document regarding evaluation criteria will be accepted after opening of the Technical Bids and we are bound to provide all the documentary proofs regarding evaluation criteria or any other supporting document at the time of opening of Technical Bids.
7. We agree that the Purchase Committee of Lahore College for Women University is not bound to accept the lowest or any of the bids received. We also agree that the Purchase Committee reserves the right in absolute sense to reject all the products/ services specified in the Bid Response without assigning any reason whatsoever under PPRA Rules 2014.
8. We also declare that our Company/Organization is not blacklisted by any of the Federal or Provincial Government in Pakistan.

*[Name and Signatures of authorized Person along with stamp]*

**Annexure- E      Financial Proposal Covering Letter  
(to be attached with Financial Proposal)**

To

Chairperson Purchase Committee

Lahore College for Women University,

Lahore

Dear Sir,

With Reference to your Tender No. LCWU/Tender/2020-2021/05 for *(title of the Tender)*.

Please find attached our Financial Proposal for the sum of Rs. *(insert amount in words and figures)*\_. This amount is inclusive of all taxes.

We have attached the Bid Security of amount Rs. *(insert amount in words and figures )* having CNo. along with our Financial Bid.

Yours sincerely,

Authorized Signature

**Annexure-F                      Contract Agreement Form**

THIS AGREEMENT made the *[day]* day of *[month]* *[year]* between *[Lahore College for Women University]* (hereinafter called "the University") of the one part and *[name and address of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the University invited Tenders for certain goods and related services, viz, *[brief description of goods and related services]* and has accepted a Tender by the Supplier for the supply of those goods and related services in the sum of Rs. *[Contract Price in figures and in words]* (hereinafter called "the Contract Price").

NOW THEREFORE the parties hereby agree as follow:

- 1- The following documents attached shall be deemed to form and integral part of this Contract:
  - i- Tender/Bid Document
  - ii- Letter of Acceptance
- 2- The Terms and Conditions of Supply Order/Contract given in the Tender/Bid Document will be applicable.
- 3- The mutual rights and obligations of the University and the Supplier will be preserved in the light of Terms and Conditions mentioned in the Tender /Bid Document.

IN WITNESS where of the parties have caused this Contract to be executed in accordance with the laws of Pakistan on the day, month and year written above.

**For Lahore College for Women University:**

**For the Supplier:**

Signature

Print Name



# LAHORE COLLEGE FOR WOMEN UNIVERSITY

Jail Road, Lahore – Pakistan. Tel: 042-99202014, 99203801-09, Ext: 212 Fax: 042-99203130

## SECURITY REFUND FORM

Name of the vendor / supplier: \_\_\_\_\_  
 Name of items supplied: \_\_\_\_\_  
 Supply order number: \_\_\_\_\_  
 Date of delivery of items: \_\_\_\_\_  
 Gross amount of bill pre-audited by the Resident Auditor: \_\_\_\_\_  
 Security amount deducted from the bill: \_\_\_\_\_  
 Warrantee period: \_\_\_\_\_  
 Warrantee expired on: \_\_\_\_\_

**VENDOR / SUPPLIER**

### **FOR PURCHASE OFFICE USE ONLY:**

Certified that the performance of the item supplied by the Vendor / Supplier remained satisfactory during warrantee period. As per request of the Vendor / Supplier, the security may be refunded.

**CONVENOR PHYSICAL INSPECTION COMMITTEE:** \_\_\_\_\_

**HEAD OF DEPARTMENT:** \_\_\_\_\_

**DEPUTY DIRECTOR PURCHASE:** \_\_\_\_\_

**PURCHASE OFFICER:** \_\_\_\_\_

### **FOR TREASURER OFFICE USE ONLY:**

The amount of security for Rs. \_\_\_\_\_ Deducted from bill of the Vendor / Supplier, duly pre-audited by the Resident Auditor, was deposited into Security Account No. \_\_\_\_\_ on \_\_\_\_\_ vide cheque No. \_\_\_\_\_ dated \_\_\_\_\_ at NBP Jail Road, Lahore. The amount of security may be released to the Vendor / Supplier through cheque as per recommendation of the Purchase Department.

**Submitted for approval please.**

**DEALING ASSISTANT**

**ADDITIONAL TREASURER**

**TREASURER**

**VICE CHANCELLOR**

(For approval exceeding Rs.100,000/-)

**Note: The Security shall be refunded to the Vendor / Supplier within six months of its becoming due. In case refund is not claimed, the security shall stand forfeited as un-claimed deposits.**