



**Government of Khyber Pakhtunkhwa
Ayub Teaching Hospital
Medical Teaching Institution, (ATH) Abbottabad**

Standard Bidding Document

FOR

Procurement of IT Equipment

Under National Competitive Bidding (NCB)

Tender (2025-26)

PREFACE

These Standard Bidding Documents have been prepared for use & prepared by the Ayub Medical & Teaching Institution Abbottabad, for procurement of IT Equipment, through National Competitive Bidding (NCB) Khyber Pakhtunkhwa via E-PADS.

The standard bidding documents for procurement of the said Bidding Documents are grouped in ~~five~~^{four} parts.

Part-I	Mandatory Documents
Part-II	Instructions to Bidders (ITB)
Part-III	Technical Evaluation Performa
Part-IV	List of IT Equipment with Specifications and required Warranty

PART - I

Mandatory Documents

- a) Registration Certificate for NTN, STRN.
- b) Active on ATL for NTN & STRN.
- c) 100% compliance to specification.
- d) Last one year bank statement.
- e) Last Year Tax return.
- f) Last year bank statement.
- g) Affidavit on judicial stamp paper duly attested mentioning following statements:
 - (i) 2% CDR is attached with financial bid.
 - (ii) The firm is not black listed.
 - (iii) Non-shareholder Certificate (That no employee of Ayub Teaching Hospital, Abbottabad is shareholder in the firm's business).
- h) Warranty as per bidding documents.
- i) Certificate of 100% compliance with purchaser's specifications shall be provided on Firm/Company letter head.

Note: Any Documents Missing in the mandatory documents will leads to disqualification.

PART - II

Instructions to Bidders (ITB)

(A) General:

1. Scope of Bid

AMTI invites bids for supply of IT Equipment Items specified in Schedule of Requirements along with Technical Specifications and related after sales services incidental thereto to meet the requirements AMTI Abbottabad with Bid Reference Number for the procurement activity as mentioned in Bid Data Sheet (BDS).

2. Source of Funds

AMTI Abbott bad

3. Eligible Bidders

3.1 This Invitation for Bidders (IFB) is open to all eligible registered manufacturers, registered importers and authorized dealers of IT Equipment. The Importer/Authorized dealer must possess valid authorization from the Principal origin. Furthermore, all the items quoted must be registered with the relevant forum.

3.2 Bidders under the declaration of ineligibility for corrupt and fraudulent practices issued by the Government (Federal, Provincial or Local) or a public sector organization are NOT ELIGIBLE.

4. Corruption and Fraud

4.1 The Government of Khyber Pakhtunkhwa defines Corrupt and Fraudulent Practices as, *"offering, giving ,receiving or soliciting of anything of value to influence the action of the public official or the supplier or the contractor in the procurement process or in contract execution to the detriment of the Procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of contract, collusive practices among bidder (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive and any request for or solicitation of anything of value by any public official in the course of the exercise of this duty"*.

4.2 Indulgence in corruption and fraudulent practices is liable to result in rejection of Bids, cancellation of contract, debarring and blacklisting of the bidder, for a stated or indefinite period of time.

5. Bidding for Selective Items

A Bidder, if he so chooses, can bid for selective items from the list of goods provided for the schedule of Requirements. A Bidder is also at liberty to bid for all

the goods mentioned in the Schedule of Requirements provided he fulfills the requirements.

However, a Bidder cannot bid for partial quantities of an item in the Schedule of Requirement. THE BID MUST BE FOR THE WHOLE QUANTITY OF AN ITEM REQUIRED IN THE SCHEDULE OF REQUIREMENT

(B) The Bidding Procedures:

1. The Governing Rules

The Bidding procedure shall be governed by the Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services KPPRA Rules, 2014.

2. Applicable Bidding Procedure

The bidding procedure is governed by thy Rule 06 Para (2) KPPRA Rules, 2014.

3. The bidding procedure is explained below:

Single Stage, Two Envelop Procedure (Rule 2(b) KPPRA 2014) via E-PADS KP-PPRA.

- i) The bid shall be submitted through E-PADS both the Technical Proposal and the Financial Proposal.
- ii) The files shall be marked as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" **FOR IT EQUIPMENT** in bold and legible letters to avoid confusion.
- iii) Initially the "TECHNICAL PROPOSAL" shall be downloaded; technical proposal is to determine the technical strength and consideration of the illegibility of the firm for the bidding process, which is to be carried out before the opening the financial bids.
- iv) The "FINANCIAL PROPOSAL" shall be only be downloaded and opened after the successful technical evaluation.
- v) The Technical Evaluation Committee (TEC) shall evaluate the technical proposal, without reference to the price and reject any proposal which do not conform the specified requirements.
- vi) During the technical evaluation no amendments in the technical proposal shall be permitted.
- vii) The financial proposals of bids shall be opened publicly at a time, date and venue to be announced and communicated to the Bidders in advance in accordance with KP-PPRA Rules through procuring entity website and E-PADS.
- viii) After the evaluation and approval of the technical proposal the Purchase committee shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only.
- ix) The bid found to be the lowest offered price shall be accepted.

Preparation of Bids

(A) The Bidding Documents:

1. Contents of the Bidding Documents

The Bidding Documents include

2. Language of Bids

2.1 All Correspondences, communications associated with preparation of Bids, clarifications, amendments, submissions shall be written in English/Urdu. Supporting documents and printed literature furnished by the Bidder may be in any language provided they are accompanied by an accurate translation of the relevant passages in English/urdu, in which case, for purpose of interpretation of the Bid, the said translation shall take precedence.

3. Bid Price

3.1 The Bidders should quote the prices of the goods according to the technical specifications the technical specifications of goods; different from the required specifications shall straightway be rejected.

3.2 The Bidder is required to offer a competitive price which must include all the taxes, levies, duties, prescribed prices.

If there is no mention of taxes, the offered/quoted price shall be considered as inclusive of all prevailing taxes/duties, etc.

3.3 The benefit of exemption from or reduction in the taxes and duties shall be passed as per Govt. rules.

3.3 Prices offered should be for the entire quantity of an item demanded in the Schedule of Requirement; partial quantity offered shall be straightway rejected. Conditional or alternate offer shall also be considered as non-responsive bid.

3.4 While making a price quote, trends/inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods or services shall be entertained.

4. Bid Currencies

Price shall be quoted in Pakistani Rupees.

5. Bid Validity

5.1 Bid Validity is for 90 days.

5.2 The TEC shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However, under exceptional circumstances and for reason to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period to the period of original bid validity.

5.3 Bidders who;

- a) Agree to the Competent Authority request for extension of bid validity period shall not be permitted to change the substance of their bids; and
- b) Do not agree an extension of the bid validity period shall be allowed to withdraw their bids without forfeiture of their bid securities.

6. Format and Signing of Bids

6.1 The bidder shall prepare and submit its bid and provide original documents bas appropriate. Copies of any documents must be stamped and signed by the bidders.

6.2 The Bid shall be accompanied by the original receipt for the payments made for the purchase of the bidding document. In an event where the Bidder has downloaded the bidding document from the web, they will require to get the original payment receipt of the prescribed fee from the Procuring cell well before the date of submission of bid.

6.3 The original bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to Contract. The person or person signing the bid shall initial all pages of the bid form.

6.4 Any interlinear actions, erasures or overwriting shall valid only if they are initiated by the person or persons signing the bid.

6.5 Any tempering, illegitimate inclusion or exclusion in any part of the Standard Bidding Documents shall lead to disqualification of the bidder.

Submission Of Bids

7. Submission of Bids

The "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" of Laboratory chemical On Regent Basis shall be uploaded on E-PADS according to the dates mentioned in the advertisement.

8. Late Bids

Any bid if not uploaded to portal before the end time shall Not be entertained later.

9. Withdrawal of Bids

9.1 The Bidder may withdraw its bid after the bid's submission and prior to the deadline prescribed for opening of bids.

9.2 No bid may be withdrawn in the period between deadline for submission of bids and the expiration of the period of bid validity specified. Withdrawal of a bid during this period may result in forfeiture of the Bid Security submitted by the Bidder

Opening and Evaluation of Bids

1. Opening of Bids by Procuring Agency

1.1 All bids received through E-PADS shall be opened by the Tender opening committee (Purchase Committee) publicly in the presence of the Bidders or their representatives on the date, time and venue prescribed in Advertisement.

1.2 All Bidders in attendance shall sign an attendance sheet.

1.3 The Purchaser shall open one bid at a time and read out aloud its contents which may include name of the Bidder, the presence or absence of requisite bid security CDR, and such other details as the Purchaser, at its discretion, may consider appropriate if not in conflict with Khyber Pakhtunkhwa Public Procurement of Goods, Works and Services Rule 2014 specifically Rule 37.

1.4 The Procuring cell shall have the minutes of the Bid opening (technical and when applicable financial) recorded.

1.5 No Bid shall be rejected at technical proposal/bid opening, except for late bids, Tender fee receipt & non submission of Original CDR and judicial stamp papers.

1.6 The uploaded bid without Bid Security CDR shall not be accepted. However, the Chairman of the Purchase/Procurement Committee shall record a statement giving reasons for not accepting such bid(s).

2. Clarification of Bids

During evaluation of the bids the TEC may, at its discretion, ask the bidder for a clarification and the response shall be in writing and no change in the prices or substance of the bid shall be sought, offered or permitted.

3. Examination of Technical BIDS

After opening of the bids by Purchase Committee, the bids will be forwarded to TEC FOR Technical Evaluations.

4. Examination of Financial BIDS

4.1 The firms achieved the qualified marks in technical evaluation against the quoted items so as its financial bids will be opened by Purchase Committee.

4.2 In the financial bids the arithmetical errors shall be rectified on the following basis.

- a) 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.
- b) If the Bidder does not accept the correction of the error, its bid shall be rejected, and its Bid Security may be forfeited.
- c) If there is a discrepancy between words and figures, the amount in words shall prevail.
- d) For the purpose of comparison of bids quoted in different currencies, the price shall be converted into Pak Rupees. The rate of exchange shall be the Selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan/National Bank of Pakistan on that day.
- e) A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the time of issue of notice for invitation of bids.
- f) The procurement cell prepared the comparative statements of the product and purchase committee approved the items

5. Announcement of Evaluation Report

The TEC may announce the results of the bid evaluation in form of a report through its website of the institution or display office notice board, giving justification for acceptance or rejection of bids at least ten days prior to the award of procurement Contract.

6. Re-Bidding

6.1 If the TEC has rejected all bids under Rule 47, it may call for a re-bidding Khyber Pakhtunkhwa Public Procurement of Goods, Works & Services Rules 2014 (Rule-48).

6.2 The TEC before invitation for re-bidding shall assess the reasons of rejection and may revise specifications, evaluation criteria or any other condition for Bidders as it may deem necessary.

Award of Contract

7. Acceptance of Bid and Award Criteria

The Bidder, whose bid is found to be most closely conforming to the Evaluation Criteria and having the lowest evaluated responsive bid, if not in conflict with any other law, rule, regulation or policy of the Government of Khyber Pakhtunkhwa, shall be awarded to the Contract within the original or extended period of bid validity.

8. Competent Authority Right to vary quantities at the time of Award

The competent Authority reserves the right at the time of the award of the Contract to increase or decrease, the quantity of goods originally specified in the Schedule of Requirements without any change in unit price or other terms or conditions

9. Notification of Award

9.1 Prior to the expiration of the period of the bid validity, the procurement cell shall notify to the successful Bidder in writing that its bid has been accepted Rule 46 in conformity with provision of Section 31 of the act in these rules.

9.2 The notification of the award shall constitute the formation of the Contract between the competent authority and the successful Bidder.

9.3 The enforcement of the Contract shall be governed by the Rule 50 of the Khyber Pakhtunkhwa Public Procurement of Goods, Works & Services Rules 2014.

10. Limitation on Negotiations

10.1 Negotiations that may be undertaken in finalization of the Contract shall not relate to the price or substance of bid specified by the Bidder but only to minor technical, contractual or logistical details.

10.2 Negotiations may relate to the following areas; (the list is being provided as guidance as only and under no circumstances be treated as exhaustive and final):

- Minor alternation to technical details, such as scope of work, the specification or drawings;
- Minor amendment to the Special Condition of Contract;
- Finalization of payment schedule and ancillary details;
- Mobilization arrangements;

- Agreement on final delivery or completion schedules to accommodate any changes required by the Procuring Agency;
- The proposed methodology or staffing;
- Inputs required from the Procuring Agency;
- Clarifying details that were not apparent or could not be finalized at the time of the bidding;
- The Bidder's tax liability in Pakistan, if a Bidder is a foreign company.

11. Negotiations shall not be used to:

- Substantially change the technical quality or details of the requirement, including the task and responsibilities of the Bidder or the performance of the goods;
- Substantially alter the terms & conditions of the Contract;
- Reduce unit rates or reimbursable costs;
- Substantially alter anything which formed a crucial or deciding factor in the evaluation of the bids or proposals;
- Alter the submitted financial bid.

12. Signing of Contract

- I. After the completion of Contract Negotiations, the Purchaser shall send the Bidder the Contract Agreement Form provided in Part-Two: Section IV of these Standard Bidding Documents, incorporating all agreements between the Parties.
- II. Within one week of the receipt of the Contract Agreement Form, the successful Bidder and the Purchaser shall sign the Contract in accordance with the legal requirements in vogue.
- III. Unless the procurement contract has already entered into force a contractor or supplier feeling aggrieved by the Order of a Purchaser accepting a bid may file an application for review.
- IV. If a successful Bidder, after completion of all codal formalities show an inability to sign the Contract then its Bid Security shall stand forfeiture and the firm may be blacklisted and de-barred from future participation, whether temporarily or permanently. In such situation the Purchaser may award the Contract to the next lowest evaluated Bidder or call for a new bid.
- V. The Contract shall become effective upon affixation of signature of the Purchaser and the selected Bidder on the contract document, shall be governed for the period of one year or till the finalization of new contract.

- a) All Goods and related Services to be supplied under the contract that are required to be imported in Pakistan shall have their origin in eligible source countries as prescribed by the commercial polices of Federal Government Of Pakistan and all expenditures made under the contract shall be limited to such goods and services.
- b) For purpose of this Clause "origin" means the place where the goods are produced, or the place where the related services are supplied. Goods are produced when, through manufacturing or processing.

PART - III

TECHNICAL EVALUATION PERFORMA FOR IT EQUIPMENT

(ATTACHED) Annex

NON-MEDICAL & TECHNICAL ITEMS (IT EQUIPMENT)

Mandatory	Registration Certificate for NTN, STRN.	
	Active status on ATL for NTN & STRN	
	Last 01 years Bank Statement	
	Last Year Tax Return	
	Affidavit on stamp paper duly attested mentioning following statements: (a) 2% CDR is attached with financial bid. (b) The firm is not black listed (c) Non-Shareholder Certificate (That no employee of MTI ATH Abbottabad is shareholder in the Firm's business	
	Warranty as per bidding documents	
	Certificate of 100% compliance with purchaser's specifications be provided on Firm/Company letter head	

S No	Parameters	Detail/Supporting Documents	Maximum Marks	Remarks
1	Additional Features in terms of Hardware, enhanced specifications	Additional Special Features NOT mentioned by the Purchaser (Maximum 05 marks depending upon the utility of additional feature offered)	05	
1	Physical resources	Established office within 600 Km from purchaser	01	Details with supporting documents must be attached.
		List of relevant and qualified employees	01	
		Official website of the Firm	01	
		List of spare parts available for quoted items	01	
		Availability of Technical Support (24/7)	01	
2	Past Performance of last five year	01 mark per institute. Maximum 10 marks (Only attach valid Purchase Orders reflecting financial effects of > 0.3 Mil)	10	Institutions include Govt, Semi Govt, Autonomous Bodies and renowned Private entities
3	Dealership Certification	1. Authorized Dealer: 10 2. General supplier : 02	10	

4	ISO Certification	Company ISO Certificate of Quality Management System 2 Marks per Certificate (Max 06)	06	
5	Last Year Turnover from Tax Return	Turnover 100Mil & above : 05 Turnover below 100 Mil : 02	05	
6	Warranty	01 years beyond asked warranty with parts: 03 02 years beyond asked warranty with parts: 06 03 years beyond asked warranty with parts: 09	09	
TOTAL MARKS			50	

**In Technical Evaluation 70% (35/50) marks will be passing marks
Lowest priced among technically qualified bids will be accepted**

for FID

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6/19/25

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06/19/25

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06/19/25

PART - IV

**LIST OF IT EQUIPMENT WITH SPECIFICATIONS
AND REQUIRED WARRANTY**

(Attached Annex)



MEDICAL TEACHING INSTITUTION
AYUB TEACHING HOSPITAL
IT Department

PART-IV
List of IT Equipment.
with Specifications and
Warranty required.

To

Senior Manager Material Management
MTI ATH, Abbottabad

Subject: Submission of Revised Hardware Items List – Annual IT Tender 2025–2026

Respected Sir,

Please find the enclosed list of revised hardware items for the Annual IT Tender 2025-2026.

List of Hardware item was already submitted along with the list of consumable items.

We have revised the list and included the up-to-date scanners for the patient file scanner therefore the list revised list is hereby submitted again for the tendering process.

J. Iqbal
Associate system engineer
MTI ATH Abbottabad

HoD(IM)

forwarded SMM
Sir Revised Specifications
FA 27/10/25

DDP: FNA
[Signature]
27/X/25

Supd PC PC Process as per procedure urgently
[Signature]
28/11/25

LIST OF HARDWARE ITEMS FOR TENDER 2025-2026

S.NO	NAME OF ITEM	SPECIFICATION AND WARRANTY PERIOD REQUIRED	MODEL QUOTED BY FIRM	RATE
1.	Laptop 14 inch core Ultra 7	14 inch core Ultra 7,155U 12 Core Processor G11 Turbo boost technology , 16GB, 512 GB NvMe, WUXGA FHD 300 nits, BKLT, Carring Case , Audio & Microphone .		
2.	Laptop Intel Core Ultra 5	14 inch core Ultra 5,155U 12 Core Processor G11 Turbo boost technology , 16GB, 512 GB NvMe, WUXGA FHD 300 nits, BKLT, Carring Case , Audio & Microphone .		
3.	Core i5 All-in-One PC (Branded)	Intel Core Ultra 7 155U (0.70 GHz, up to 4.80 GHz, 12 cores - 14th Generation) with Intel® Graphics and Intel® AI Boost (up to 11 TOPS) 16 GB 5600MT/s DDR5 (1X16GB) SODIMM 256 GB M.2 PCIe NVMe 2280 High performance integrated stereo speakers 5MP Camera ,AC Adapter: 90W Barrel Smart PFC High Efficiency External Power Supply C5 1.0m Sticker CNVTL 10/100/1000 NIC Realtek Wi-Fi 6 8852BE (2x2) and Bluetooth® 5.3 Wireless Technology TPM 2.0, pull-up camera (2) Type-A Hi-Speed USB 480Mbps signaling rate ports, (1) Type-A SuperSpeed USB 5Gbps signaling rate port, (1) Type-C USB 5Gbps signaling rate port, (1) Type-A SuperSpeed USB 5Gbps signaling rate port with Sleep and Charge, (1) HDMI 1.4 out connector, (1) RJ-45 (network) jack, (1) Microphone/Headphone Combo Jack, (1) Power connector , Genuine Keyboard & Mouse The equipment must be covered under a 3-Year Genuine Manufacturer Warranty , directly supported by the original manufacturer. Original Windows 11 Digital Licence .		

Handwritten signature

4.	LaserJet printer Printer (one side Print)	Type: Monochrome Laser Printer Print Speed: Up to 40 ppm (A4) Resolution: Up to 1200 × 1200 dpi Paper Capacity: 100-sheet multipurpose tray + 250-sheet tray (expandable to 900 sheets) Connectivity: USB, Ethernet Toner Yield: 3,000 pages (standard), 10,000 pages (high yield)		
5.	LaserJet printer Printer (Duplex Printer)	Duplex Printer Black Printer Print only, Dual-band Wi-Fi Print speed letter: Up to 40 ppm (black) Auto duplex printing: 2 paper trays (standard) Best-in-class security-detect and stop attacks.		
6.	LaserJet Printer Heavy Duty	Monthly duty cycle: Up to 275,000 pages Print Technology: Laser Processor speed: 1.2 GHz Connectivity: 1 Hi-Speed USB 2.0 Device; 2 Hi-Speed USB 2.0 Host; 1 Gigabit Ethernet 10/100/1000 Memory: 512 MB Display: Color Graphics Display (CGD) with touchscreen; rotating (adjustable angle) Paper trays: 3 With 2 cartridges		
7.	Thermal Printer	Internal Power Supply Throughput: Up to 250 mm/sec monochrome Printing Method: Direct Thermal Interface: USB & Ethernet (10M/100M) Printer sensor: Paper presence, Low paper, Antijam All Accessories Included		
8.	Barcode Label Printer	6-button LCD (advanced model) control panel Easily adjustable sensors Print head pressure adjustment knobs Min 400-meter ribbon capacity with Flexible firmware structure Min 203 dpi resolutions Up to 4 Gigabyte Flash memory expansion using SD Flash memory Fast label throughput		
9.	Scanner	Scan Speed: Up to 25 pages per minute (ppm) and 50 images per minute (ipm) at 300 dpi. Scan Resolution: Hardware resolution up to 600 x 600 dpi (color and mono, ADF) and up to 1200 x 1200 dpi (color). Input Tray Capacity: Holds up to 50 sheets of 75 g/m ² paper.		

		Dimensions: 145 mm (H) x 387 mm (W) x 460 mm (D) and weighs 5.58 kg (12.3 lb)		
10.	Scanner	Scanner Type: Sheet-fed, duplex scanner Scan Technology: CMOS Contact Image Sensor (CIS) Daily Duty Cycle: Up to 7,500 pages per day Scan Speed: Up to 65 pages per minute (ppm) Up to 130 images per minute (ipm) for duplex scanning Optical Resolution: 600 x 600 dpi Output Resolution: Up to 1200 dpi (enhanced) Automatic Document Feeder (ADF): 80-sheet capacity Supported Media Sizes: Minimum: 50.8 x 50.8 mm (2 x 2 in) Media Types: Plain paper, envelopes, cards, ID cards ADF Media Weight: 40 to 210 g/m ² Connectivity: USB 3.0 Support: Windows 7, 8.1, 10,11		
11.	Scanner	Scanner Type: Flatbed and sheet-fed duplex Scan Technology: CCD (Charge-Coupled Device) Daily Duty Cycle: Up to 3,000 pages per day Scan Speed: Up to 50 pages per minute (ppm) Up to 100 images per minute (ipm) for duplex scanning Optical Resolution: 600 x 600 dpi Output Resolution: Up to 1200 dpi (enhanced) Document Feeder (ADF): 100-sheet capacity Supported Media Sizes: Minimum: 68 x 148 mm Media Types: Plain paper, cards, ID cards Connectivity: Hi-Speed USB 2.0 Support: Windows 7, 8, 8.1, 10, 11		
12.	Heavy-Duty Label Printer	Industrial thermal printer Fast 536 MHz processor Faster print speed - up to 18 ips Available in 203 dpi, 300 dpi and 600 dpi resolutions 512 MB Flash and 512 MB SDRAM memory 600-meter ribbon capacity High quality label printing		
13.	Projector	Display: Full HD — 1920 x 1080 pixels Brightness: 5,000 ANSI Lumens (5500 center lumens) Connectivity: HDMI: HDMI, VGA inputs. Built-in speaker Lens Age: 20,000 hr Warranty: 1 Year manufacturer.		
14.	Projector Screen	Fine Quality, Easy to use 16:9 widescreen format <ul style="list-style-type: none"> • Aspect ratio of 16:9, Viewing width of 80 inches 		

		<ul style="list-style-type: none"> • Durable spring mechanism for easy rolling • Easy ceiling or wall mounting 		
15.	All-in-One PC Wall Mounts	<p>Mounting Type Wall Mount, movable and adjustable</p> <p>Material Aluminum</p> <p>Maximum Compatible Size 32 Inches</p>		
16.	LED for Computers 24 inches	<p>Supported 1,920 by 1,080 pixels</p> <p>24 inch led monitor FHD</p> <p>VGA - DVI PORT, 60 HZ</p>		
17.	85 Inch Interactive Display	<p>4K UHD Interactive Display for Education and Business Conferences. Flat Panel that integrates functions of computers, projectors, Interactive Display, sound boxes, cameras, Bluetooth & remote control</p> <p>Diagonal Size: 85 Inch Interactive Display</p> <p>Resolution: 3,840 x 2,160 (Landscape)</p> <p>Brightness (Typ.): 350 nits (without glass)</p> <p>Contrast Ratio (Typ.): 4700:1</p> <p>USB: 2 (For SoC, Rear / Front), 1 (for external 3.0×1 (Front)) Built-in Speaker (10W x 4)</p> <p>Apps: Document Viewer, Smartview+, Video Player, Web Browser, Workspace (RDP / VNC, Office365)</p> <p>Included: Power Cord, 3 years Warranty / Quick Start Guide</p>		
18.	LED 4K 60 inches	<p>Aspect ratio: 16:9, Diagonal screen size (inch): 60 inches</p> <p>Display: LED Full HD, Panel Resolution: Min:1920x1080p</p>		
19.	LED 4K Smart 55 inch	<p>Aspect ratio: 16:9, Diagonal screen size (inch): 55 inches</p> <p>Display: LED Full HD</p>		
20.	LED 4K Smart 46 inch	<p>Aspect ratio: 16:9, Diagonal screen size (inch): 46 inches</p> <p>Display: LED Full HD</p>		
21.	Wall Mount for 13 to 32 inch Smart Computers (Branded)	<p>Mounting Type Wall Mount</p> <p>Movement Type Rotate, Swivel, Tilt, Articulating</p> <p>Material Alloy Steel</p> <p>Compatible Size 17 Inches to 32 Inches</p> <p>Compatible Devices Smart computers & Monitors</p> <p>Full motion articulation & matte black finish</p>		
22.	Dual Mode Biometric Time and Attendance	<p>Dual Mode Biometric Time and Attendance Terminal</p> <p>1200 facial templates</p> <ul style="list-style-type: none"> • 2000 fingerprint templates • Up to 10,000 cards 		

K. Saw

		<ul style="list-style-type: none"> • Up to 100,000 stored punches 		
23.	Biometric Time and Attendance	<p>Capacity Users 10,000</p> <p>Face Template 10,000</p> <p>Fingerprints 10,000</p> <p>ID Cards 10,000</p> <p>Transactions 1,000,000</p> <p>Hardware High Performance Android Industrial CPU / 2GB DDR3 RAM / 16GB ROM / Z-ID Fingerprint Sensor / 7-inches Touch Screen, 1280*800 Pixel / 2NP Binocular Camera</p> <p>Communication TCP/ IP/USB Host /Wiegand Input / Wiegand Output</p> <p>Standard Functions</p> <p>ID Card / Work Code / ADMS/ DST / Schedule Bell / Automatic Status Switch / Record Query / Photo ID</p> <p>Optional Functions: 13.56MHz IC Card</p> <p>Additional Info Algorithms ZKFace V10.0 & ZKFinger</p> <p>Facial Recognition Speed ≤1s</p> <p>Facial Recognition Distance 0.5m~3m</p> <p>Power DC12V 3A</p> <p>Biometric Verification Modes</p> <p>Power Supply: 5V DC</p> <p>2 hrs. minimum power backup</p>		
24.	Kaspersky security center /License	<p>Kaspersky Security for Windows Server Enterprise-Grade Server Security Solution</p> <p>It supports Microsoft Windows Server 2012 R2, 2016, 2019, and 2022, including Standard, Datacenter, Core, and Virtual Environments. The solution is optimized for both physical and virtual servers to ensure continuous protection with minimal performance impact.</p> <p>The software includes cloud-assisted protection powered by the Kaspersky Security Network (KSN) for real-time threat detection and reputation analysis. The latest version features Exploit Prevention to protect system processes and memory from vulnerabilities, and System Hardening to enhance server resilience through process isolation and configuration integrity checks.</p> <p>Kaspersky Security for Windows Server ensures system integrity control, continuously monitoring changes to critical system files, folders, and registry entries. It provides dedicated protection for terminal servers in multi-user environments such as Remote Desktop and Citrix.</p>		

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		<p>The solution also introduces support for Microsoft Windows Server Containers, offering protection for containerized workloads.</p> <p>It includes External Traffic Security, enabling the inspection of inbound and outbound network traffic to detect and block malicious activity. With 'Always-on' multi-layered storage protection, it defends shared folders, file servers, and NAS environments from crypto-malware through its Anti-Cryptor technology.</p> <p>Administrators are given fine-grained control over privileges, helping to prevent misuse or unauthorized access to system resources. The integrated notification system provides real-time alerts and status updates on threats and policy enforcement.</p> <p>All deployment, updates, policy management, and reporting are handled through centralized management using Kaspersky Security Center. The solution follows a per-server or per-core licensing model (as per OEM policy) and complies with enterprise IT security and audit standards.</p> <p>least a 1-year license, OEM-level support, and full compatibility with Active Directory, clustered, and multi-session environments.</p>		
25.	Lenovo Think Centre Neo 30a All-in-One 22" Front Screen	Lenovo Think Centre Neo 30a All-in-One 22" Front Screen. vibrant 21.5" FHD display		
26.	2TB External HDD	Portable SSD 2TB USB 3.2 Gen 2, USB-C, 2 TB USB 3.2 Gen 2, Connector USB-C		
27.	16GB Server Ram DDR3 / DDR4	Max Speed: 1333MT/s (1600MT/s will clock down) Compatible with Dell Power Edge R710/R730/R740/R440/T440		
28.	32GB Server Ram DDR4	Max Speed: 1333MT/s (1600MT/s will clock down) Compatible with Dell Power Edge R710/R730/R740/R440/T440		
29.	64GB Server Ram DDR4	Max Speed: 1333MT/s (1600MT/s will clock down) Compatible with Dell Power Edge R710/R730/R740/R440/T440		
30.	128GB Server Ram DDR4	Max Speed: 1333MT/s (1600MT/s will clock down) Compatible with Dell Power Edge R710/R730/R740/R440/T440		

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31.	Dell Power Edge R730 CPU	Dell Power Edge R730 Processor E5-2699 v4 2.2 GHz 22 cores		
32.	DELL 8TB SAS 3.5inch	DELL 8TB SAS 3.5inch 10K RPM 12Gbps		
33.	DELL 8TB SAS 2.5inch	DELL 8TB SAS 2.5inch 10K RPM 12Gbps		
34.	Office 365 License	Email license for office 365		
35.	Win 11 Pro	Windows 11 Pro License (Digital) Automatically activated when the PC is connected to the internet, as the license is tied to the specific device. Linking the digital license to a Microsoft account enables easier reactivation in case of significant hardware changes, such as motherboard replacement. Users can perform clean installs of the same edition on the same machine, and it will activate automatically without the need for manual intervention.		
36.	Win 10 Pro	Windows 10 Pro License (Digital) Automatically activated when the PC is connected to the internet, as the license is tied to the specific device. Linking the digital license to a Microsoft account enables easier reactivation in case of significant hardware changes, such as motherboard replacement. Users can perform clean installs of the same edition on the same machine, and it will activate automatically without the need for manual intervention.		
37.	Window Server 2022	Windows Server 2022 Standard Digital License Windows Server 2022 Standard Digital License includes the following features: Next-Generation Security: Features Windows Defender Antivirus, Exploit Guard, BitLocker, and advanced threat protection for physical and virtual workloads. Hybrid Capabilities with Azure: Seamless integration with Azure services, including Azure Arc, backup, and cloud-based identity management. Storage and File Services: Full support for file and storage services, including SMB, ReFS, Storage Spaces Direct, and Storage Migration Service. Remote Desktop Services (RDS): Secure remote access and multi-session deployments for remote users. Hyper-V Virtualization: Create and manage virtual machines for optimized resource utilization.		

		<p>Active Directory and Group Policy Management: Comprehensive directory services and centralized policy management across the organization.</p> <p>Networking Enhancements: Includes Software-Defined Networking (SDN), enhanced firewall, and network encryption features.</p> <p>Server Core Option: Lightweight installation for reduced attack surface and optimized performance.</p> <p>Windows Admin Center Integration: Centralized, browser-based management interface for monitoring and administration.</p> <p>Lifetime Digital License: Once activated, the license remains valid for the lifetime of the server hardware and supports automatic reactivation after hardware changes or clean installs.</p>		
38.	External Hard Drive Rack / Enclosure	<p>Supports 3.5-inch SATA I/II/III HDD & SSD. 8Bays</p> <ul style="list-style-type: none"> • USB 3.0 interface (≈5 Gbps), backward compatible with older USB versions. • Made of aluminum alloy + plastic. • Power supply AC 100-240V, output 12V/5V 2A. • LED indicators. • Hot-swap capability. 		
39.		Leftover Items of networking		
40.	Fiber optic Cable 12-Core single mode	<p>12-core single-mode duct cable: loose-tube OS2 (G.652.D/G.657.A1), gel-filled with water-blocking yarn/tape, PE outer sheath (UV/rodent resistant) with optional corrugated steel tape armor.</p> <p>Typical performance: attenuation ≤0.35/0.21 dB/km @1310/1550 nm, crush ≥1000 N/10 cm, tensile 1000–1500 N short-term, min bend radius ≈10×OD (install) / 15×OD (operate).</p> <p>Environment & ID: -40 to +70 °C, 250 μm fibers in loose tubes,</p>		

		standard 12-color coding.		
41.	Patch Panel 48 ports	<p>Type: Rack-mountable patch panel</p> <p>Number of Ports: 48 (typically RJ45)</p> <p>Port Configuration: 2U (rack units) or 1U (compact models)</p> <p>Port Type: Unshielded (UTP) or Shielded (STP), depending on the model</p> <p>Mounting Standard: 19-inch rack mount compatible</p> <p>Category: Cat5e, Cat6, Cat6a, or Cat7 (based on model)</p> <p>Material: Cold rolled steel / Powder-coated finish</p> <p>Jack Material: Gold-plated contacts (usually 50μ inch)</p> <p>Cable Management: Rear cable support bar (optional or included)</p> <p>Labeling: Port numbering and writable label space</p> <p>Color: Typically black</p> <p>Data Transmission: Supports 10/100/1000 Mbps and 10G Ethernet (Cat6a+)</p>		
42.	48 port PoE switch	<p>Port Configuration</p> <p>48 \times 10GBASE-T RJ-45 ports (auto-negotiation: 100M/1G/2.5G/5G/10G)</p> <p>PoE+ / PoE++ support (802.3at / 802.3bt)</p> <p>Backward compatible with Cat5e/6/6a cables (for 1G–10G)</p> <p>4 to 8 \times SFP+ or SFP28 uplink ports</p> <p>10G or 25G fiber (optional combo ports)</p> <p>1 \times Console port (RJ-45 / USB-C)</p> <p>1 \times Out-of-band management port (optional)</p>		

		<p>✂ PoE Specifications</p> <p>PoE Standards: IEEE 802.3af, 802.3at (PoE+), 802.3bt (PoE++) Maximum PoE power per port: Up to 30W (PoE+) or 60–90W (PoE++) on select ports</p> <p>Total PoE Budget: 740 W – 1,880 W typical Power Management: Port prioritization Per-port power scheduling Dynamic PoE allocation</p> <p>Performance & Throughput</p> <p>Switching capacity (backplane): 960 Gbps to 1.2 Tbps (depending on uplinks) Forwarding rate: 714 Mpps and above Latency: Sub-microsecond (varies by mode: cut-through/store-and-forward) MAC address table: 32K – 64K entries Packet buffer memory: 8 MB – 16 MB Jumbo frame support: up to 9,600 bytes</p> <p>Layer 3 Features</p> <p>IPv4 / IPv6 dual stack Static and dynamic routing: RIP v1/v2, OSPF v2/v3, BGP4, IS-IS VRRP / VRF / Inter-VLAN routing Policy-Based Routing (PBR) Multicast Routing: IGMP Snooping v1/v2/v3 PIM-SM / PIM-SSM Route summarization, redistribution, ECMP</p> <p>Security Features</p>		
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		<p>802.1X (port-based / MAC-based) RADIUS / TACACS+ authentication DHCP Snooping / ARP Inspection IP Source Guard / MAC Filtering Access Control Lists (L2-L4 ACLs) MACsec Encryption (802.1AE) on RJ-45 ports (optional) Control Plane Policing (CoPP) Quality of Service (QoS)</p> <p>8 Hardware Queues per Port DSCP / 802.1p classification Traffic shaping / policing Priority queuing / congestion avoidance Management & Monitoring</p> <p>Management Interfaces: CLI (via SSH/Telnet/Serial) Web GUI SNMP v1/v2c/v3 REST API / NETCONF / gNMI (modern switches) Telemetry / Monitoring: sFlow / NetFlow / IPFIX RMON, SNMP, Syslog Zero-touch provisioning / auto-config Firmware update over TFTP/HTTP/SFTP High Availability & Stacking Redundant hot-swappable power supplies Field-replaceable fans with front-to-back airflow Stacking Support: Up to 4-8 switches in a stack Virtual Chassis or StackWise (vendor-specific) Fast convergence: sub-second</p>		
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		failover using protocols like BFD, MSTP, LACP		
43.	48 port SFP core switch	<p>48-Port 10G Stackable L3 Managed Aggregation Switch with 4 100G Slots</p> <p>PORT: 48× 10G SFP+ Slots, 4×100G QSFP28 Slots, RJ45/Type C USB</p> <p>Console Port, Management Port, 2× USB3.0 Ports</p> <p>SPEC: 1U 19-inch Rack-mountable Steel Case</p> <p>FEATURE: Integration with SDN Controller, Stacking, RIP, OSPF, BGP, IS-IS, VRRP, ECMP, PIM-SM/DM/SSM, Secure Boot, Static Routing, DHCP Server, DHCP Relay, ERPS, RSPAN, QinQ, OAM, sFlow, DDM, 802.1Q VLAN, STP/RSTP/MSTP, IGMP Snooping, 802.1p/DSCP, QoS, ACL, 802.1x, BFD, NETCONF, GRE Tunnel, RADSEC, Radius/Tacacs+ Authentication, LACP, CLI, SNMP, Dual Image/Configuration, IPv6, Dual Redundant Power Supplies (Hot-swappable with dual PSU 550W)</p> <p>Core Switch Warranty 5 years</p> <p>1 Meter 100G QSFP28 Direct Attach Cable</p> <p>SPEC: Up to 1 m Distance, Support data rate of 100Gbps and 40Gbps, Compatible with 100G QSFP28 Slot and 40G QSFP+ Slot, Plug and Play</p> <p>DAC Cable Warranty 2 Years</p> <p>Quoted brand should be in Gartner Magic Quadrant for</p>		

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		<p>Wired and Wireless LAN Access Infrastructure since 2019</p> <p>Warranty should be 5 years</p> <p>Manageable by controller cloud free, free software and hardware controller , management through APP</p> <p>MAL -should be authorized business partner</p> <p>OEM Should have office in Pakistan</p> <p>Distributor of OEM should be present in all major cities</p> <p>Quoting Partner should have offices in Karachi, Lahore, Islamabad and Peshawar</p>		
44.	24 Port-L3 Multigig Switch for EAP	<p>24-Port 2.5G Stackable L3 Managed PoE++ Switch with 4 25G Slots</p> <p>PORT: 24× 2.5G PoE++ RJ45 Ports (up to 60W/port), 4× 25G SFP28 Slots, RJ45/Type C USB Console Port, Management Port, 2× USB2.0 Ports</p> <p>SPEC: 802.3bt/at/af, max 1440 W PoE Power (depend on power supply module), 1U</p> <p>19-inch Rack-mountable Steel Case</p> <p>FEATURE: Integration with Pro SDN Controller, Stacking, RIP, OSPF, BGP, IS-IS, VRRP, ECMP, PIM-SM/DM/SSM, MACsec, Secure Boot, Static Routing, DHCP Server, DHCP Relay, ERPS, RSPAN, Fast PoE, Perpetual PoE, QinQ, OAM, sFlow, DDM, 802.1Q VLAN, STP/RSTP/MSTP, IGMP Snooping, 802.1p/DSCP, QoS, ACL, 802.1x, BFD,</p>		

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		<p>NETCONF, GRE Tunnel, RADSEC, Radius/Tacacs+ Authentication, LACP, CLI, SNMP, Dual Image/Configuration, IPv6, Dual Redundant Power Supplies (Hot-swappable, dual PSU500W)</p> <p>Quoted brand should be in Gartner Magic Quadrant for Wired and Wireless LAN Access Infrastructure since 2019</p> <p>Warranty should be 5 years</p> <p>Manageable by controller cloud free, free software, management through APP</p> <p>MAL -should be authorized business partner</p> <p>OEM Should have office in Pakistan</p> <p>Distributor of OEM should be present in all major cities</p> <p>Quoting Partner should have offices in Karachi, Lahore, Islamabad and Peshawar</p>		
45.	SFP's LR for Core switches	<p>Type SFP28 (Small Form-factor Pluggable)</p> <p>Speed 25 Gbps (IEEE 802.3by compliant)</p> <p>Connector Type LC duplex</p> <p>Transmission Medium Single-mode fiber (SMF)</p> <p>Max Distance Up to 10 km over SMF</p> <p>Wavelength 1310 nm</p> <p>Cable Type OS2 single-mode fiber (recommended)</p> <p>DDM (Digital Monitoring) Supported</p> <p>Power Consumption < 1.5W typical</p> <p>Temperature Range 0°C to 70°C (commercial) or extended</p>		

		<p>ranges for industrial modules</p> <p>Compatibility Cisco, Arista, Juniper, etc. (if vendor-locked, use certified modules)</p> <p>Standard Compliance MSA-compliant, IEEE 802.3cc/by</p>		
46.	Patch Cord	<p>Connector type to SC-LC</p> <p>Length:1m and 3m both (Quote Separately)</p>		
47.	LC-LC-DSM	<p>Connector type: RJ45-RJ45</p> <p>Length:1m and 3m both (Quote Separately)</p>		
48.	10GBASE-LR SFP + Module	<p>10GBASE-LR SFP+ Module</p> <p> Type SFP+ (10G) </p> <p> Speed 10 Gbps </p> <p> Distance Up to 10 km over SMF </p> <p> Wavelength 1310 nm </p> <p> Connector LC duplex </p> <p>Single-mode, MiniGBIC, LC Interface, Up to 10 km Distance</p>		

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