

# SUKKUR IBA UNIVERSITY

Merit – Quality - Excellence



TENDER # PROC/238

**Tender documents for Supply, Installation, Testing, Configuration, Training of Networking (Active & Passive) Equipment and Fire Detection System for Benazir Bhutto Shaheed Institute of Management Sciences, Dadu**

Last Date for Submission April 07, 2021 @ 2:00 pm  
Tender Opening Date April 07, 2021 @ 2:30 pm

## **BBSIMS CAMPUS DADU**

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## **1. Background**

As Sukkur IBA University intends to get the work done of Supply, Installation, Testing, Configuration, Training of Networking (Active & Passive) Equipment and Fire Detection System for Benazir Bhutto Shaheed Institute of Management Sciences, Dadu (detail in BOQ), so a tender is called for execution of said work.

## **2. General Terms and Conditions**

The following General Terms and Conditions apply to all equipment/ works under this tender:

- 2.1.** The last date of receipt of Bids is 07th April 2021 at 1400 hours
- 2.2.** Detail of repair and maintenance facilities.
- 2.3.** Structure /Organizational Chart.
- 2.4.** An affidavit to the effect that the firm has not been blacked listed by any Government /semi government organization.
- 2.5.** The Bidder indemnify Sukkur IBA against all third-party claims of infringement of patent, trademark industrial design rights arising from use of the goods or any part thereof in Pakistan.
- 2.6.** Sukkur IBA University or its representative shall have the right to inspect and/or to test the equipment to confirm their conformity to the contract specifications.
- 2.7.** The Technical Specifications shall specify what inspections and Tests Sukkur IBA requires and where they are to be conducted. Sukkur IBA shall notify the Contractor, in writing, of the identity of any representatives entrusted for this purpose.
- 2.8.** It is mandatory that the Bidders provide the following documents and information with respect to its relationship with Principal.
  - 2.8.1.** Name and contact details of Principal/Manufacturer representative who is authorized to verify Vendor's local partnership.
  - 2.8.2.** Duration and scope of association in the current capacity with the Principal.
  - 2.8.3.** Copy of Principal's certification (along with its validity period), authorizing the Vendor as local partner / representative in Pakistan to offer/ Bid Principal's equipment and services.
- 2.9.** The Bidder shall provide following information with respect to its Company Profile.
  - 2.9.1.** Number of Vendor's offices and addresses, thereof, phone and fax numbers and email address as well as names and designations of responsible persons.
  - 2.9.2.** Number of Engineers and Technical Staff in Vendor's Office.

- 2.9.3. Profiles of Technical Staff with relevant experience, resume and number of customers and sites looked after / supported by each.
- 2.9.4. Problem reporting procedure and fault response time in hours for fault rectification, escalation procedures with response to turnaround time in hours.
- 2.10.** The Bidder shall provide following information with respect to its Setup in Pakistan:
- 2.10.1. Registered Name of the Organization.
- 2.10.2. National Tax Number, Sales Tax Number and GST number.
- 2.10.3. Head Office address.
- 2.10.4. Management structure & organization Chart.
- 2.10.5. Name, Address with Telephone/ Telex and Fax numbers of the contract person.
- 2.11.** Financial status of the Bidders Organization with supporting documents and last two years annual reports.
- 2.12.** Provide a certificate from your bank certifying your sound financial position and credit limits from the bank.
- 2.13.** List of clients and their Acceptance of deliverables, showing separately the items provided and value thereof.
- 2.14.** Company incorporation Certificate and Company Profile.
- 2.15.** The Bidder shall furnish a comprehensive list of reference sites where the likewise tender work has completed already.
- 2.16.** Sukkur IBA University, reserves the right to reject any or all Bids/ Offers without assigning any reason or cancel the process at any time.
- 2.17.** Sukkur IBA University reserves the right to increase/ decrease the quantity of items / scope of the work. Bidder has no right to challenge the decision in Court.
- 2.18.** Documentary evidence of claims made in proposal regarding experience, relationship with principal etc.

### **3. Proposal Submission Requirements**

- 3.1.** For this tender PPRA's Single stag-two envelope Procedure as per clause 36 (b) for open competitive bidding is adopted. The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- 3.1.1. The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion;

- 3.1.2. Initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened;
- 3.1.3. The envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of the procuring agency without being opened;
- 3.1.4. The procuring agency shall evaluate the technical proposal, without reference to the price and reject any proposal which do not conform to the specified requirements;
- 3.1.5. During the technical evaluation no amendments in the technical proposal shall be permitted;
- 3.1.6. The financial proposals of bids shall be opened publicly at a time, date and venue announced afterwards technical assessment and evaluation is completed.
- 3.1.7. After the evaluation and approval of the technical proposal the procuring agency, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders.

### **3.2. Technical Proposal**

- 3.2.1. Technical proposal must include the complete solution proposed by the Bidder.
- 3.2.2. If the specification sheets ask for any detail, those should be provided as attachment to the Technical Proposal.
- 3.2.3. Technical proposal shall comprise the valid Registration certificates of PEC and taxation departments, details of Equipments and material available with the company, details of supervisory technical staff, Completed works details and works in hand of similar nature, Bank statements, enlistment list if with any other department etc. so that a fair scrutiny shall be done.
- 3.2.4. Description of material and equipment specific for this work.
- 3.2.5. Completion schedule on Bar chart, Primavera or other software.
- 3.2.6. Technical proposal shall provide the details of company, its office location, numbers etc.
- 3.2.7. After review of the Technical proposal, promising Vendor will be selected and will be asked to give demonstration/ presentation on their solution.
- 3.2.8. Based on Technical proposal and the presentation, Vendors will be selected in order of preference and their Technical Solution will be rated on a scale of 100. The criteria considered will be compliance with equipment specification, capability of integration, references, after sales support etc.

3.2.9. Financial Proposal of only those Bidders will be considered who's Technical Proposal qualify.

3.2.10. Bidders must possess the valid PEC license in such category in which the total bid cost falls, if not than his financial proposal will be rejected.

### **3.3. Financial Proposal**

3.3.1. Financial proposal will include the quoted prices for each item (Active and Passive) including Supply, Installation, Testing, Commissioning, and Configuration.

3.3.2. For each category the quoted prices must include all taxes, customs and freight charges for delivery at the required locations at own risk and cost of material required for the work.

3.3.3. These Equipment are required for educational institution "Sukkur IBA", therefore expects significant educational and volume discount.

3.3.4. Financial proposal of the bidders found technically non responsive will be returned unopened.

3.3.5. The Bidder shall furnish **earnest money** equivalent to **2%** of the total value of bid in the form of Pay/Bank Draft issued by a scheduled bank of Pakistan in favor of "**Sukkur IBA University**" valid for **at least one year** and enclosed along with financial proposal. **No Bid shall be entertained without earnest money**. Earnest money of the successful bidder will be released at the time of submission of Ten percent (10%) Performance Guarantee of the Total Contract Value.

3.3.6. Bid Security is required to compensate Sukkur IBA against the consequences of:

3.3.7. Subsequent unauthorized variations and/or modifications of the terms of Bid.

3.3.8. Pre-mature withdrawal of the Bid before the completion of Bid Evaluation.

3.3.9. Failure of the Bidder to sign the resultant Contract, in the event of such contract being awarded to it.

**3.4.** Successful Bidder is required to deposit **Ten Percent (10%)** of Total Contract Value as **Performance Guarantee** in the form of **Pay Order/Bank Draft** issued by a scheduled Bank of Pakistan in favour of "**SUKKUR IBA UNIVERSITY**" at the time of signing of Contract agreement and will be released at the time of delivery of equipment at Site.

**3.5.** Proposals sent to Sukkur IBA University by fax or email will not be accepted.

**3.6.** An effort by a Bidder to influence Sukkur IBA University, directly or indirectly THROUGH UNFAIR MEANS may result in the rejection of Bidder's Proposal and blacklisting for any future tender of Sukkur IBA University.

**3.7.** Prices quoted will be firm for the entire period of contract. All prices to be quoted in Pak Rupees, and must clearly state all applicable taxes which must be included in quoted price.

#### **4. Hardware and Service Requirements**

Following are the minimum requirements which the Bidder / Vendor for the equipment:

- 4.1.** The Vendor must install all equipment and components and must ensure that the proposed equipment is fully operational and function properly at all variables.
- 4.2.** Vendor must furnish components, wires, connectors, materials and parts, equipment for the complete installation of the system (including testing and configuration), in accordance with recommendations of the equipment manufacturer. Installation shall follow standard broadcast wiring and installation practice and shall meet or exceed industry standards for such work.
- 4.3.** Vendor must ensure that all systems are in first class working condition and free of short circuits, ground loops, video noise and excessive system noise or any fault affecting its efficiency / quality / life.
- 4.4.** At the time of installation, Vendor must provide owner's manuals, manufacturer's data sheets, and a complete equipment list.
- 4.5.** At the time of installation, Vendor must provide comprehensive system schematics, labelling and showing detailed connections to all equipment.

#### **5. Selection Procedure**

- 5.1.** Sukkur IBA University intends in issuing this RFP to award a contract to the lowest and best responsive Vendor / Bidder who meets required standard of specifications and other factors. The Vendor's past performance, cooperation, and ability to provide service and training are general factors that will be weighed in the selection process.
- 5.2.** All Vendors will provide Demo (Proof or Concept) to verify the claims in the Technical Specifications of the Brochures. This would also determine the quality and specifications of the equipment.
- 5.3.** Bids will be evaluated as per evaluation criteria mentioned below:

## 6. Evaluation Criteria

### 6.1. Technical Evaluation Criteria (Weightage 70%)

S.NO	Description	Maximum Score	Score Obtained	Remarks
1	Meeting Specifications	40		
2	Relevant Experience(Years)	5		
3	Experience with Academic Institutions	5		
4	Relationship with Principal	10		
5	Quoted Product Origin	5		
6	International Quality Certifications	5		
7	Warranty / Guarantee	5		
8	Complaints Response Time	5		
9	After Sale Service ( Local Expertise)	5		
10	Lead Time (Order to delivery time)	5		
11	Company Profile	5		
12	Cliental Served Profile	5		
Total		100		

Note:

Please attach documentary evidence in support of your claim in technical proposal.

### 6.2. Financial Evaluation Criteria (Weightage 30%)

## 7. Delivery and Installation

Delivery and installation should be at the Sites/Locations at the risk and cost of successful Bidder.

## 8. Warranty

Following Warranty Clauses are applicable:

- 8.1. The successful Bidders shall warrant the equipment and its components to be free from any sort of defects in material and workmanship for a minimum period of 01 year from the date of completed installation and shall repair or replace on a timely basis any defective component, assembly or portion free of cost.
- 8.2. Technical support should be available on call basis.
- 8.3. Competent staff of the Bidder will attend each and every call within 3-4 hours of its notification either on phone or in writing during Business Hours (9am – 5pm).
- 8.4. Delay in attending the call and delay in rectification of fault will lead to consequential financial damages to the Vendor/Bidder.

## 9. Services

Sukkur IBA shall promptly notify the supplier in writing of any claims arising under this warranty and the Vendor/Supplier will repair / replace the defective stores at reasonable speed but within the specified period and time and without any additional cost, specifications, and/or other Contract commitments.

## 10. Liquidated Damages

Liquidated damages shall be applicable as under:

- 10.1. Delay of one week to handover the equipment as per specifications: = **0.5 %**  
of the total Cost.
- 10.2. Delay of two weeks to handover the equipment as per specifications: = **1.0**  
% of the total Cost.
- 10.3. Delay of three weeks to handover the equipment as per specifications: = **2.0**  
% of the total Cost.

**10.4.** Delay of four weeks to handover the equipment as per specifications: = **4.0 %** of the total Cost.

**Note: In case of delay beyond four weeks, Sukkur IBA University reserves the right to cancel the order and impose penalty up to 10% of the ordered Value.**

## **11. Terms of Payment**

Payment of contract price shall be made in the following manner:

**11.1.** Sukkur IBA University, being an educational Institute, is exempted from GST and whole of Custom duty as per S.R.O 362(I)/2000 in case of imports therefore prefers to open LC directly in favour of Principal to avail GST and Custom Duties exemption but sometimes if the equipment is required urgently and import time wait is not operationally feasible then Sukkur IBA University opt to buy on availability basis.

**11.2.** Please quote the rates on C & F (Cost & Freight) till Karachi port in US \$ or Euro, for in case Sukkur IBA open LC. Please clearly mention mode by Air or By Sea.

**11.3.** Please also quote rates in Pak Rupees in case Sukkur IBA opts to buy on availability basis.

**11.4.** Payment will be within 30 days after satisfactory supply, Installation, Testing of items and submission of Bill.

**Note: Please quote rates for above both cases, it will be entirely Sukkur IBA discretion to opt whatever option (Open LC or buy on availability basis) as per requirement and situation.**

## **12. Other Terms & Conditions**

**12.1.** Warranty/ Guarantee and Product Origin must be mentioned clearly.

**12.2.** Installation and Transportation must be clearly mentioned.

**12.3.** Sukkur IBA reserves the right to increase or decrease the quantities at the time of order placement.

**13. Important Note.** Wherever in BOQ brand name is mentioned, please read with “or equivalent” after brand name.

## INTEGRITY PACT

### DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS

Contract Number: \_\_\_\_\_ Dated: \_\_\_\_\_

Contract Value: \_\_\_\_\_ Contract Title \_\_\_\_\_

- [Name of Supplier/Contractor/Consultant] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.
- Without limiting the generality of the foregoing, [Name of Supplier/Contractor/Consultant] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from Procuring Agency (PA), except that which has been expressly declared pursuant hereto.
- [Name of Supplier/Contractor/Consultant] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.
- [Name of Supplier/Contractor/Consultant] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.
- Notwithstanding any rights and remedies exercised by PA in this regard, [Name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier/Contractor/Consultant] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

Procuring Agency

Supplier/Contractor/Consultant

## **DRAFT AGREEMENT**

THIS AGREEMENT is made on date \_\_\_\_\_ between:

**M/s** \_\_\_\_\_ (**vendor name**) having presently its office at \_\_\_\_\_  
\_\_\_\_\_ (vendor's address) (hereinafter referred to as the "Vendor" which expression shall unless repugnant to the context so deemed to mean and include his heirs, general representatives and assigns) of the one part,

**AND**

**SUKKUR IBA UNIVERSITY (CLIENT)**, a chartered institute established under the laws of Pakistan, and having its head office at Nisar Ahmed Siddiqui Road ,Sukkur (hereinafter referred to as the "Client" which expression shall where the context so requires or permits include its successors and assigns) of the other part. Hereinafter collectively referred to as the "**Parties**";

WHEREAS the Vendor is in the business of awarded work along with fittings and fixtures (hereinafter referred to as "business set up"),

**AND WHEREAS** the Client is in the service of providing quality education and is desirous to get awarded products/works/services as per details given in Bill of Quantity (BOQ)/purchase / work order along with quality, economy and value for money.

AND WHEREAS the Vendor has agreed to provide the Products /Works/Services to the Client on the terms and Conditions contained in this Agreement and in the tender document issued for this task.

### **NOW THIS AGREEMENT WITNESSES AS FOLLOWS:**

1. The agreement will be valid for a period commencing from \_\_\_\_\_ and ending on completion of Warranty/Guarantee period.
2. As per this agreement "Client" may give an advance as mentioned in the payment terms and conditions ("Advance") to Vendor against Bank Guarantee for the advance equivalent amount in rare cases if agreed by the client.
3. Vendor will start the work immediately of Sign of this agreement or from receipt of Purchase Order whichever comes first, otherwise client will claim for advance repayment from bank against bank guarantee. Vendor will complete the work within specified time communicated through emails & handover and obtain the satisfactory completion certificate from the client.
4. All payments to be made by the Client to the Vendor under this agreement shall be subject to deduction of all prevailing taxes, duties, charges, liquidated damages etc and as per terms and conditions mentioned in this agreement.

5. The Vendor shall pay and discharge at all times during the period all assessments, taxes, penalties, fines and charges of every description including tests charges etc. which are now or may at any time hereafter during the period, be assessed, imposed or charged upon the Vendor by Sukkur IBA University, any Local, Provincial or Federal Government Agency, Department or Authority.
6. One calendar month notice in writing shall be given by either party to terminate this agreement earlier than the expiry of the period. In case of an early termination under this clause, the Vendor undertakes to refund the advance paid for the agreement immediately on demand along with any penalty imposed by the client against provision of Bank Guarantee submitted by Vendor.
7. Vendor shall exercise reasonable care and diligence to prevent any actions or conditions, which could result in a conflict with CLIENT's best interests. This obligation shall apply to the activities of the employees and agents of Vendor in their relations with the employees and their families, of CLIENT's vendors and third parties arising from this agreement and accomplishing services hereunder. Vendor's efforts shall include, but not be limited to establishing precautions to prevent its employees or agents from making, receiving, providing or offering substantial gifts, entertainment, payments, loans or other consideration for the purpose of influencing individuals to act contrary to CLIENT best interest.
8. Dispute Resolution
  - a. Any dispute or difference arising out of or in connection with this Agreement, or the implementation of any of the provisions hereof which cannot be settled amicably, shall be referred to arbitration under the provision of the Pakistan Arbitration Act, 1940 as amended or substituted from time to time, of two arbitrators, one to be nominated by CLIENT and the other by Vendor and the two arbitrators shall appoint an umpire before entering upon the reference. The unanimous decision of the two arbitrators, or, in the case of difference between them, the decision of the umpire, will be final and binding on the parties. The venue of the arbitration proceedings shall be Sukkur, Pakistan. Notwithstanding the reference of any dispute to arbitration, CLIENT and Vendor shall be obliged to fulfill their respective obligations under this Agreement.
  - b. Subject to the above, should any recourse to Courts of Law become necessary, the parties hereto submit to the jurisdiction of the Courts of law at Sukkur, Pakistan which courts shall have exclusive jurisdiction to settle any claims and/or dispute arising out of this Agreement or any acts done in pursuance thereof regardless of the location or place of business of parties hereto. However, CLIENT may at its own option also proceed against Vendor in the court of law for any claims it may have.
  - c. Notwithstanding any disagreement, dispute, protest, request for arbitration, or arbitration proceeding arising out of or in connection with this Agreement or its performance, at all times, Vendor shall proceed with the Services, unless CLIENT agrees otherwise in writing.

9. This agreement can be amended at any time during the subsistence/continuance/ period of the agreement, subject to mutual consent and the terms and conditions then agreed upon between the Parties.
10. The Vendor hereby warrants that the terms of the agreement has been read to him and understood by him.
11. The vendor shall conduct his business in a professional ethical manner. The vendor shall be responsible for compliance with all laws, rules and regulations for the time being in force on its own behalf and with regard to his employees.
12. Nothing in this agreement shall be deemed to create an agency or an employer/employee relationship between the vendor (his employees) and the client. The vendor shall at all times remain solely responsible for all responsibilities and liabilities whatsoever with regard to his employees.
13. Vendor shall hold in strict confidence any information provided by CLIENT to Vendor to perform the Services and stated by CLIENT to be confidential information. Such information shall be given to employees of Vendor strictly as needed to discharge their responsibilities in respect of the performance of the Services by Vendor. CLIENT may require employees of Vendor to sign a separate secrecy agreement to protect its interests in such confidential information. Vendor shall be liable for disclosures of any such information, which is not in accordance with the provisions of this Agreement or with the prior written approval of CLIENT.
14. The vendor agrees to indemnify and keep indemnified the client against all claims, damages, costs, expenses and/or liabilities which arise due to any direct or indirect act or omission either by the vendor or his employees/representatives.
15. The Vendor indemnify Sukkur IBA University against all third-party claims of infringement of patent, trade mark industrial design rights arising from use of the goods or any part thereof in Pakistan.
16. Sukkur IBA University or its representative shall have the right to inspect and/or to test the equipment to confirm their conformity to the contract/agreement specifications. The Technical Specifications shall specify what inspections and tests Sukkur IBA University requires and where they are to be conducted. Sukkur IBA University shall notify the Vendor, in writing, of the identity of any representatives entrusted for this purpose.
17. Problem reporting procedure and fault response time in hours for fault rectification, escalation procedures with respect to response or turnaround time in hours.
18. An effort by a Vendor to influence Sukkur IBA University, directly or indirectly THROUGH UNFAIR MEANS may result in the termination of the agreement and vendor black listing for any future tender of Sukkur IBA University.
19. The value of agreement will be firm for the entire period of Contract for the scope of work defined in the agreement. The agreement amount includes all applicable taxes.

## **20. SERVICE REQUIREMENTS**

Following are the minimum requirements which the vendor/vendor for the equipment:

21. The Vendor must ensure that the work assignment is done as per requirement of the client and must ensure timely delivery with accuracy, secrecy, confidentiality, and quality at all stages from beginning to end of the assigned work.

## **22. DELIVERY & INSTALLATION**

23. Delivery and Installation should be at the Sites/Locations at the risk and cost of vendor.
24. Delivery period will be as communicated through emails to the vendor by client.

## **25. WARRANTY, MAINTENANCE AND ASSURANCE**

26. The Vendors shall warrant that the assigned work will be done as per timelines given by the client through email(s) with accuracy, secrecy, confidentiality, and quality at all stages from beginning to end of the assigned work.

## **27. SERVICES**

28. Sukkur IBA University shall promptly notify the supplier in writing of any claims arising under this warranty and the Vendor/Supplier will repair/replace the defective stores at reasonable speed but within the specified period and time & without any additional cost.

## **29. LIQUIDATED DAMAGES / PENALTIES FOR VIOLATIONS.**

Sukkur IBA University may cancel the purchase order/ work order and may impose penalty as liquidating damages up to 10% of the contract/purchase order where it deems fit in case of violations by vendor in case of delay in delivery/completion of the ordered items/works/services or supply of substandard/ inferior quality items/ works/ services.

## **30. FORCE MAJEURE**

Vendor will not be considered to be in default in the execution of their contractual obligations or any of them to the extent that the execution of such obligations or any of them is delayed or omitted by cause of Force Majeure. The term Force Majeure employed herein shall mean acts of public enemy, wars (whether declared or not) invasion, hostilities, revolution, epidemics, riots, fires, floods, earth quake, and other causes similar in kind to those herein mentioned, not under the control of either party, which makes the performance of this agreement unfeasible and which by the exercise of due diligence the party seeking excuse from performance is unable to overcome.

## **31. TERMS OF PAYMENT**

Payment of contract price shall be made in the following manner.

Payment will be made as agreed.

32. Following Documents will be part of this agreement and will be bounding on the vendor.

Tender Notice, Tender Documents issued, Technical & Commercial Proposal submitted by the vendor and agreed by the Client, Purchase Orders, Emails by the client to the vendor etc.

33. Above conditions are General Conditions, Actual Agreement will have some more Work specific conditions.

34. **IN WITNESS WHEREOF** the Vendor and Client have signed this Agreement at Sukkur on the day, month and year first above mentioned, in the presence of the following witnesses: -

\_\_\_\_\_  
**Vendor :**  
**CNIC #** \_\_\_\_\_  
**Address:** \_\_\_\_\_

\_\_\_\_\_  
**Client: For and on behalf of**  
**Sukkur IBA University**

**Witnesses:**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
CNIC # \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
CNIC # \_\_\_\_\_

**Benazir Bhutto Shaheed Institute of Mangement Sciences, Dadu**  
**BOQ of Cost for Networking, CCTV, Wifi, Telephone and Fire Detection System**

Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
1	Router	<p><b>Model: Fortinet/ Huawei/Cisco or Equivalent</b></p> <p>6 x GE ports(can be configured as WAN interfaces)</p> <p>Power redundancy,Power voltage, AC: 100 VAC to 240 VAC @ 50 Hz/60 Hz</p> <p>WAN ports 2 x GE combo ports</p> <p>Flash 64 GB , MPLS,</p> <p>IP application, Ping, Tracert, ICMP, DHCP server, DHCP relay, DHCP client, DNS client, DNS proxy, DDNS, NTP, and SNTP</p> <p>IPv4 routing Static routing, Dynamic routing: RIPv1/v2, OSPFv2, BGP, IS-IS, Policy routing</p> <p>Security Portal, 802.1X, Local authentication, RBAC, RADIUS, TACACS+</p> <p>ARP attack prevention, IKE, IPsec,</p> <p>High availability, Bandwidth-based load balancing and backup, IP address-based load balancing and backup</p> <p>The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year</p>	1		
2	Smart Reck	<p><b>Model : Attom, Hawaii or Equvalant</b></p> <p>The overall dimension of micro data center indoor unit is: 600mm(width) * 1100mm(depth) * 2000mm(height).</p> <p>The power input is: 220V/1Phase/50Hz-60Hz.</p> <p>The available space is 26U</p> <p>The available power is 6kVA.</p> <p>The available cooling is 3.5kW.</p> <p>The loading capacity of the cabinet is 1500kg.</p> <p>The size of each cabinet is 600mm(width) * 1100mm(depth) * 33U(height).</p> <p>The color is RAL9005.</p> <p>The locking of cabinet is 3in1 Access Control</p> <p>The UPS capacity is 6kVA high frequency type with unity factor</p> <p>The UPS mounting type is rack mount, and height is 2U.</p> <p>The UPS power input is 220V/1Ph/50Hz-60Hz.</p> <p>The PDU is basic type. The power output sockets are C13*10Pcs + C19*6Pcs</p> <p>cooling is packaged DX type, and total cooling capacity is 3.5kW.</p> <p>The cooling power input is 220V/1Ph/50Hz-60Hz.</p> <p>The cooling system indoor unit is Top mount packaged with evaporator and condenser.</p> <p>The compressor system is hermetic rotary type.</p> <p>The cooling capacity is adjustable by HGBP(hot gas by pass) technology</p> <p>The evaporator fan is EC fan type. The condenser fan is EC fan type.</p> <p>The cooling unit shipped with refrigerant charged. The refrigerant is R410A</p> <p>Emergency ventilation method is opening front door &amp; rear door of cabinet during high temperature.</p> <p><b>Monitoring System</b></p> <p>The display of monitoring system is 10" touch type</p> <p>The management of UPS includes display of UPS working mode, UPS alarms, UPS input power parameters, UPS output power parameters.</p> <p>Product should be CE Certified</p> <p>The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year</p>	1		

**Benazir Bhutto Shaheed Institute of Mangement Sciences, Dadu**  
**BOQ of Cost for Networking, CCTV, Wifi, Telephone and Fire Detection System**

Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
3	Core Switch	<b>Model:C9300-48T or Equivalent</b>	1		
		48 x 10G/1G SFP+ ports, 2 x QSFP ports, 2 x expansion slots, 2 x fan tray slots, and 2 x power module slots.			
		Layer 3 Support for INVLAN Connectivity with IP Routing function			
		Large table size for next generation campus network			
		Open application architecture			
		High-density 10GE forwarding			
		leading 40 G uplink switch			
		1+1 power module redundancy and 1+1 fan tray redundancy.			
		Hot-swappable interface modules.			
		Distributed device management			
		Distributed link aggregation			
		Distributed resilient routing			
		Port-based VLAN (up to 4094 VLANs)			
		ARP anti-attack			
		OSPFv1/v2/v3			
		IPv4/IPv6 static routing			
		VRRP			
		BGP			
802.1X,AAA authentication, RADIUS authentication					
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					
3.1		SFP+ Single mode Support OM3	40		
4	Network Managmer Software	<b>Model: NMS, SolarWinds, PRTG or Equivalent</b>	1		
		End-user Intelligent Access			
		Wireless Service Manager			
		Network Traffic Analyzer			
		Intelligent Analysis Report			
		Application Performance Manager			
		graphically monitor the health of services based on quality indicators			
		User Behavior Auditor with potential security threats from internal users.			
		Quality of Service Manager			
		1 year Licance + techical support			
		VM requirements, VMware ESXi 5.5, Hyper-V			

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
5	Layer 2 48 Port Switch	<b>Model: Cisco 9300 or equivalent model support with 740 PoE Power Supportor Equivalent</b>	13		
		48 10/100/1000Base-T Ethernet ports POE+ 740W and 4 port 10 Gbps SFP+			
		Switch capacity 170 Gbps			
		Port-based VLANs (4,094 VLANs)			
		QinQ and selective QinQ			
		Voice VLAN			
		Protocol-based VLANs			
		static routes			
		BPDU Guard			
		MSTP protocol			
		IPv6 multicast VLAN			
		IPv4/IPv6 addresses			
		Supports maximum frame size of 9 KB			
		Port mirroring			
		AAA authentication			
		RADIUS authentication			
		IP Source Guard			
		Port-based and MAC address-based authentication			
		Configuration through CLI			
Remote configuration through Telnet					
Configuration through Console port					
Training 2 person					
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					
5.1	SFP+	SFP+ Single/ Multimode Support OM3	13		

**Benazir Bhutto Shaheed Institute of Mangement Sciences, Dadu**  
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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
6	Layer 2 24 port	<b>Model: Cisco C9300-24T or Equivalent</b>	26		
		48 10/100/1000Base-T Ethernet ports POE+ and 4 port 10 Gbps SFP+			
		Switch capacity 170 Gbps			
		Port-based VLANs (4,094 VLANs)			
		QinQ and selective QinQ			
		Voice VLAN			
		Protocol-based VLANs			
		static routes			
		BPDU Guard			
		MSTP protocol			
		IPv6 multicast VLAN			
		IPv4/IPv6 addresses			
		Port mirroring			
		AAA authentication			
		RADIUS authentication			
		IP Source Guard			
		Port-based and MAC address-based authentication			
		Configuration through CLI			
		Remote configuration through Telnet			
Configuration through Console port					
Training 2 person					
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					
6.1		SFP+ Multimode Support OM3	26		
7	Wireless Solution	<b>Model: Cisco Catalyst 9800-L or Equivalent</b>	1		
		8 GE+SFP combo			
		1 console			
		1+1 redundant Power Support backup			
		Maximum number of managed Aps 500			
		Multi-SSID (Per RF)			
		Auto AP serial number entry			
		CAPWAP			
		Roaming Intra-AC, Inter-AP L2 and L3 roaming+ Inter-AC, Inter-AP L2 and L3 roaming			
		Portal authentication			
		802.1X authentication			
		Local authentication, 802.1X, Portal, MAC authentication			
		LDAP authentication+ 02.1X and Portal			
		EAP-GTC and EAP-TLS supported by 802.1X login			
		AAA server selection based on SSID and domain			
		Licances 90			
		TACACS+			
		Auto channel and power configuration			
		RF management +Load balancing + AP load balancing group			
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
8	<b>Indoor Access point</b>	<b>Model: Cisco Catalyst 9120 or Equivalent</b>	82		
		Port 1: 100M/1000M/2.5G/5G, RJ-45			
		Port 2: 10/100/1000M, RJ-45, IoT			
		Working frequencies 802.11ax/ac/n/a: 5 GHz			
		Operating frequencies: 2.4GHz and 5GHz,			
		802.3af/802.3at compatible power supply			
		CAPWAP tunnel management			
		(intelligent Analysis Report			
		support 500 Users Par AP			
		IoT Extension, BLE, RFID			
		Mixed login for WPA, WPA2 and Pre-RSNA users			
		5GHz, 4x4:4 MU-MIMO, 2.4GHz, 2x2:2 MU-MIMO, 20MHz/40MHz/80MHz bandwidth			
		DHCP assigned IP(option 60)			
		Load balancing			
		User bandwidth management			
		Wi-Fi Certified IEEE 802.11a/b/g/11n/11ac, 11ax WMM			
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					
9	<b>Outdoor Access Point</b>	<b>Model: Cisco Aironet or Equivalent</b>	4		
		802.11ax Outdoor AP			
		Built-in GPS			
		Internet of Things (IoT) expansion			
		RF Optimizing Engine (ROE)			
		Local forwarding			
		Intelligent AP load balancing			
		Unified management of wired and wireless networks			
		Ethernet port (2)			
		IOT port (1)			
		11ax Supported Outdoor triple band AP, Streams 10			
		Operating frequency 5GHz			
		11n Supported Streams 2, Operating frequency 5GHz/2.4G			
		Transmit Beamforming			
		Maximum users per channel 512, Radius Client			
		Multiple-domain authentication server			
Wi-Fi Certified IEEE 802.11a/b/g/11n/11ac					
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year					

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
10	Firewall / Network Security	<p><b>Model: Fortinet/Palo Alto/Cisco or Equivalent</b></p> <p>The bidder must propose 3 x NGFW hardware-based appliance with 3 Year 24x7x365 Support along with necessary licenses</p> <p>The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 3 Year</p> <p>The proposed product should have Intrusion Prevention System Inspection license for 1 Year</p> <p>The proposed product should have Web Content Filtering license for 1 Year</p> <p>The proposed product should have Anti-Virus license for 1 Year</p> <p><b>Firewall rating:</b></p> <p>The Vendor of proposed product should be ICSA certified.</p> <p>Must Propose Hardware Appliance Solution</p> <p>Minimum 2.1 Gbps NGFW Firewall Throughput (Firewall + IPS Throughput)</p> <p>Support Unrestricted Concurrent User</p> <p>Minimum 1,200,000 Number of Concurrent Session</p> <p>Minimum 30,000 Number of New Session Per Second</p> <p>Minimum 6 Ethernet RJ45 Ports, 1G Fiber SFP Ports</p> <p>Must Supports Site-to-Site VPN &amp; IPsec VPN</p> <p>All Licenses for Application Control, Anti-Virus, Anti-Malware, Intrusion Prevention System, File Blocking, Web URL Filtering, Security Sandbox and Email Security Protection.</p> <p>Controlling application categories (i.e. P2P, Proxy Avoidance, Video)</p> <p>Routing (BGP, OSPFv2, OSPFv3, RIP, Static, Multicast)</p> <p>IPv6 Dual Stack Support</p> <p>NAT (Static, DIPP, Source, and Destination)</p> <p>Policy Based Forwarding (Based on Source, Destination, Application and URL)</p> <p>QoS (Marking and Traffic Shaping) based on application</p> <p>Ability to control traffic from/to countries (Geo-location control)</p> <p>Support LACP</p> <p>Must be able to deploy in multiple network deployment modes simultaneously including Layer 2, Layer 3 and passive transparent.</p> <p>Must be able to perform SSL decryption inbound and outbound for threat inspection without additional device.</p> <p>Must be able to selectively identify which SSL traffic is decrypted to address privacy concerns</p> <p>Blocks application vulnerabilities on all NGFW models</p> <p>Blocks spyware and malware on all NGFW models</p> <p>The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year</p>	1		

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
11	<b>User Management Network, System internet User Report</b>	<b>Model: Fortinet/Sangfor/Cisco or Equivalent</b>	1		
		Must Have Role-Based Administration with Permission Control			
		Must Have IPv4 & IPv6 Environment Traffic Monitoring and Control			
		Must Have More than 5 Deployments in Pakistan Local Customer to Prove the Product Maturity			
		Must Have User Identification Base on IP Address, MAC Address, Hostname			
		Must Have User Binding Base on IP Address and MAC Address			
		Must Have Identification of Endpoint such as Mobile, PC and etc.			
		Must Have SMS Authentication, Captive Portal and etc.			
		Must Have Captive Portal Integration with Microsoft Active Directory			
		Must Have Customizable Captive Portal HTML Page			
		Must Have URL Redirection After Captive Portal Authentication			
		Must Have Single Sign-On (SSO) Authentication Base on Active Directory, Radius, POP3 and other Database Servers			
		Must Have QR Code Authentication with Self-Registration Capability			
		<b><u>Application Control &amp; Identification</u></b>			
		Must Have More Than 6000+ Application Signatures			
		Must Have to Block HTTPS Application and HTTPS Traffic without Install SSL Certificate			
		Must Have to Display Warning Message for Blocked URL			
		Must Have Application Control Policy with Application Based, Service Based, User Based and Schedule Based Policy			
		Must Have Punishment Policy for User Internet Violation (Block Internet Access for Certain Period, Limit Bandwidth Speed for Certain Period and etc.)			
		Must Have to Differentiate Local Pakistan Traffic & International Traffic in Live Graph Display			
		Must Have Anti-Proxy Module Effectively Block Proxy Application / VPN Application such as TOR Browser, Browsec, Ultrasurf, FreeGate			
		<b><u>Bandwidth Management:</u></b>			
		Must Have Quota Based Bandwidth Management (Daily and Monthly)			
		Must Have Limited Bandwidth Channel and Priority Bandwidth Channel			
		Must Have Dynamic Bandwidth Management			
		Must Have Per User Based Bandwidth Management			
		Must Have Bandwidth Management Policy with Application Based, Service Based, User Based and Schedule Based			
Must Have Built-In Internal Report Center for Minimum 6 Months Logs					
Must Support External Report Center Hardware OR Software for Longer Report Logs Storage					
Must Support Generating Overall Network Information such as Maximum Concurrent User, Maximum Bandwidth Utilization, Network Peak Hour and etc.					
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year / Taning 2 peron					

**Benazir Bhutto Shaheed Institute of Mangement Sciences, Dadu**  
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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
12	Server	<b>Model: DELL/HP or Equivalent</b>	1		
		Intel Xeon Silver 4210 2.2G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2400, 16*8GB RDIMM, 2 x 480 GB SSD with Raid1, 2933MT/s, Dual Rank			
		4*4TB 7.2K RPM NLSAS 12Gbps 512n 3.5in Hot-plug Hard Drive			
		*960GB SSD SATA Mix Intensive 6Gbps 512e 2.5in Hot-plug,3.5in HYB CARR			
		Chassis with up to 8 x 3.5" SAS/SATA Hard Drives for 2CPU Configuration			
		2U Standard Bezel			
		Riser Config 2, 3 x8, 1 x16 slots			
		PERC H730P RAID Controller, 2GB NV Cache, Adapter, Low Profile			
		Hot Swappable Fans			
		Standard 1U Heatsink			
		DVD+/-RW,SATA,Int			
		Dual, Hot-plug, Redundant Power Supply (1+1), 750W			
		Long Jumper Cord, C13-C14,4m,10a (APCC except ANZ)			
		2 x 10G SFP+ ports (including connectivity equipments)			
		4 x 1G ports Base-T			
		Power Saving Active Power Controller			
		ReadyRails Sliding Rails With Cable Management Arm			
RAID Configured					
<b>Warranty:</b>					
Next Business Day 36 MONTHS and Pro Support Next Business Day Onsite Service, 36 Month(s)					
13	IP Phone	<b>Model: Fortinet/Cisco or Equivalent</b>	200		
		SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDPMED, LDAP, TR-069, 802.1x, TLS, SRTP, CDP/SNMP/RTCP-XR			
		Dual switched auto-sensing 10/100 Mbps Ethernet ports, integrated PoE			
		132 x 48 (2.95") LCD display			
		Telephony Features Hold, transfer, forward (unconditional/no-answer/busy), 3-way conferencing, call park/pickup, downloadable phone book (XML, LDAP, up to 1000 items), call waiting, call history (up to 200 records), off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones, server redundancy & fail-over			
		HD handset and speakerphone with support for wideband audio			
		Layer 2 QoS (802.1Q, 802.1P) and Layer 3 (ToS, DiffServ, MPLS) QoS Support for G.711µ/a, G.722 (wide-band), G.723,G.726-32, G.729 A/B, iLBC, in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC			
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year / Taning 2 peron					

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
14	IP PBX	<b>Model: ZTE/Avaya/Cisco or Equivalent</b>	1		
		supports up to 800 users and 100 concurrent calls			
		Auto Discovery and Zero Configuration of SIP endpoints			
		Integrated 2/4/8 PSTN trunk FXO ports, 2 analog telephone FXS ports with lifeline capability and up to 50 SIP trunk accounts			
		Gigabit network ports with Integrates PoE, USB, SD card			
		Supports up to a 5-level IVR (Interactive Voice Response)			
		Built-in call recordings server; recordings accessible via web user interface			
		Built-in Call Detail Records (CDR) for tracking phone usage by line, date,			
		Strongest possible security protection using SRTP, TLS and HTTPS encryption			
		Supports any SIP video endpoint that uses the H.264, H.263 or H.263+ codecs			
The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year / Taning 2 peron					
15	4MP IR Eyeball Network Camera	<b>Model: Hikvision/ D-link or Equivalent</b>	85		
		H.265&H.264 triple-stream encoding			
		25/30fps@4Mp(2688×1520)			
		WDR(120dB), Day/Night(ICR), 3DNR,			
		Multiple network monitoring: Web viewer			
		IR Distance Distance up to 50m (164ft)			
NAS Local PC for instant recording Mirco SD card 128GB					
16	PTZ	<b>Model: Hikvision/ D-link or Equivalent</b>	4		
		Powerful 45x optical zoom			
		Max. 25/30fps@4MP			
		Face detection			
		Deep-learning-based auto tracking and perimeter protection			
		SMD Plus			
		IR distance up to 250m			
		IP67 , IK10			
Tripwire, Intrusion. Support alarm triggering by target types(human and vehicle)					
17	Network Keyboard Controller	<b>Model: Hikvision/ D-link or Equivalent</b>	2		
		Four Dimensional Joystick PTZ Control			
		Main Processor Dual-core Processor			
		Screen 10.1" TFT LCD touch screen (1280*800)			
		Stream Type H.265, H.264, MPEG , Support 4K decoding live view			
		Support video-wall display control, reset position, Auto Scan, Auto Pan, Auto Tour & Pattern Control			
		Support snapshot and recording to U-disk			
		Max Number of PTZ (IPC)			

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
18	Network Video Recorder	<b>Model: Hikvision/ D-link or Equivalent</b>	2		
		32 Channel IP video access			
		Max bandwidth 320MBPS			
		Main Processor Multi-core embedded processor			
		Smart H.265+/H.265/Smart H.264+/H.264/MJPEG			
		Resolution 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.			
		Up to 16 Channel perimeter protection			
		Up to 4 Channel video stream face recognition			
		Up to 24 face pictures/sec processing			
		Up to 20 face databases with 100,000 face images in total			
		Database Management Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture			
19	Vehicle Recognition Box Camera	<b>Model: Hikvision/ D-link or Equivalent</b>	2		
		2MP Long Range Access ANPR Camera			
		Vehicle Detection			
		Vehicle capture rate ≥99%			
		Vehicle Recognition: Supports recognizing vehicle type, vehicle logo, vehicle color, license plate, and vehicle without plate. Vehicle recognition rate ≥90%			
		Intelligent Track Frame, Intelligent frame display. Supports displaying vehicle plate and vehicle path			
		Bracket 3-dimensional universal mounting bracket			
20	Face Detection Camera	<b>Model: Hikvision/ D-link or Equivalent</b>	4		
		Image Sensor "4Megapixel			
		IVS (Perimeter Protection) accurate detection human			
		Illumination Distance 60 m (196.9 ft)			
		Heat Map			
		Face Detection technology Face detection; track; optimization			
		deep learning algorithm			
		The proposed product should be covered for 24x7 Advance Replacement Hardware Warranty for 1 Year / Taning 2 peron			
21	Racks 27U Loaded	<b>Model : Attom, D-link or equivalnt</b>	4		
		Racks 27U Loaded With Cable Manager			
		(2 Fix & 1 Sliding Tray)			
		2 Fans Options,			
		Front Tinted Glass Door with Lock			
		Wheels with Lock,			
		Black Color			
22	Racks 27U Loaded	Racks 27U Loaded With Cable Manager	6		
		(2 Fix & 1 Sliding Tray)			
		2 Fans Options,			
		Front Tinted Glass Door with Lock			
		Wheels with Lock,			
		Black Color			

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
23	<b>Racks 12U Loaded</b>	<b>Model : Attom, D-link or equvalnt</b>	20		
		Racks 12 U Loaded With Cable Manager			
		(2 Fix & 1 Sliding Tray)			
		PDU with 4 Scket			
		Front Tinted Glass Door with Lock			
		Black Color			
24		<b>Make: D-link , 3M or Equivalent</b>			
	<b>Fiber Cable</b>	12 Core Fiber RFT	4000		
		Indoor Fiber Cables			
		Single mode OM3			
	<b>Fiber ODF</b>	12 Core Fiber ODF with Splicing	2		
	<b>Fiber Patch</b>	LC to LC UPC Duplex Single Mode or Multi Mode OM3 2.0mm PVC Fiber Patch Cable, 1 M	100		
	Patch Cord	Patch Cord Cat 6 1 Mtr	700		
		Patch Cord Cat 6 3 Mtr	200		
	Face Plate	Schneider or 3M or equvlant Digilink Dual Shutter Facplate & Back box , and connector	900		
	<b>Cable</b>	Cat6 cable (RFT)	100000		
	<b>Duck patty</b>	Duck patty 16*25 Andam Jee / PVC pipe or equivalent	200		
	<b>Cable Tie</b>	Cable Ties 6 Inch (per packet)	8		
	<b>Cable Tie</b>	Cable Ties 8 Inch (per packet)	8		
	<b>Cable Tie</b>	Cable Ties 10 Inch (per packet)	8		
	<b>Tags</b>	Alphabetic Cable Tags (per packet)	20		
	<b>Tags</b>	Numeric Cable Tags (per packet)	20		
	<b>Tags</b>	Paper Sticker Tags (per sheet)	40		
	<b>Tape</b>	Nitto Tapes (per tape)	5		
	<b>Back Box</b>	Back Box For I/O	20		
	<b>Patch Panel</b>	Patch Panel, 24 ports, black aluminum (Loaded)	42		
	<b>Cable Manager</b>	Cable Manager Single Sided	84		
	<b>Cable try</b>	Cable try (RFT)	50		
	<b>ODF 8 Port</b>	8 Port ODF Rack-Mount with SC Couplers, SC Pigtail	20		
	<b>ODF 48 Port</b>	ODF 48 port loaded Rack mount with SC Couplers, SC Pigtail	2		
Dadex	Conduit (per Rft)	30000			
Pole	L Shap Pole 15 Feet with Umbrilaze	4			

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Sr. No.	Product	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
25	Installation	Installation with testing cost (1 Job Each network Cable or Fiber / Device connect	1		
	1	Instalrtion & bulding Pulling work Cat6	120000		
	2	Installtion ODF 48	2		
	3	Installtion ODF 28	20		
	4	Installtion Fiber cableing with polling in bulding (RFT)	4000		
	5	Fiber Splling	400		
	6	Intalltion L Shap Pole 15 Feet with Umbrilaze	4		
	7	Installtion Face plate with I/o with Tagging	900		
	8	Rack & UPS installtion	26		
	9	Fiber cable Testing Point to Point	200		
	10	Cat6 point to poit testing ( Report ) shared	900		
	11	indoor Access point Installtion	86		
	12	Outdoor Access point instaltion	4		
	13	<b>indoor Cammars Installtion</b>	89		
14	<b>Outdoor Cammars Installtion with poles</b>	4			
26	Smart LCD	<b>TCL / Samsung or Equivalent</b> LCD 55' For the network monitoring Refresh rate 50Hz, 1920x1080, FHD LED TV	4		
27	APC Smart UPS/ Emerson or equivalent				
	UPS	UPS 6KVACold-start capable - Provides temporary battery power when the utility power is out Green mode - Bypasses unused electrical components in good power conditions to achieve very high operating efficiency without sacrificing any protection High online efficiency - Reduces utility costs, generates less heat LCD Status Display Emerson/APC/libert With Installation 1 year Warranty	4		
	UPS	UPS 3k Online 3kva UPS With Installation 1 year Warranty	6		
	UPS	UPS 1k Online 1kva UPS With Installation 1 year Warranty	20		
	Projector/Multi-Media	OPTOMA or Equivalent MULTIMEDIA PROJECTOR X402 Brightness: 4200 ANSI Lumens, Contrast Ratio: 20,000:1, Display Technology: Single 0.55, XGA DC3 DMD TexasInstrument, Native Resolution: XGA 1024 x 768, AspectRatio: 4:3 Native, 16:9 Compatible, Inputs: HDMI x1, VGAx2, LAN, S-Video x1, USB, Image Size: 30.8 to 307inches (4:3), Lamp Type: 260W watt user-replaceable lamp, Lamp Life: Up to 7000 hours (ECO mode), Speaker: 10W, 3D Supported 1080p.	10		
		Nyrex or Equivalent Motorized Electric Wall Screen Matte White 6'x8' (72"x96")	5		
	Mounting Kit with Installation & Cabling HDMI & Power50ft.	5			

