

# **Invitation to Bid**

## **Purchase of Equipment /Hardware & Allied Items for Telephone Exchange under the Project Title “Strengthening of University of Peshawar”**

### **Single Stage – Two Envelope Process**

<b>Last date for submission of Bid Documents:</b>	<b>November 08, 2019 upto 10:00 AM</b>
<b>Pre-Bid Meeting and Survey of Zones:</b>	<b>November 01, 2019 upto 10:00 AM</b>
<b>Technical Bid Opening Date:</b>	<b>November 11, 2019 at 11:00 AM</b>



# **UNIVERSITY OF PESHAWAR**



**PROJECT DIRECTORATE,  
'STRENGTHENING OF UNIVERSITY OF PESHAWAR'  
Basement Academic Block-2, Opposite College of Home  
Economics, University of Peshawar, Ph#091-9222195,  
Email:[nooralam@uop.edu.pk](mailto:nooralam@uop.edu.pk)**

**Invitation to Bid 'Single Stage Two Envelopes Procedure'**

Sealed bids on prescribed Bidding Documents are hereby invited for the Purchase of Equipment/Hardware & Allied Items for Telephone Exchange under the Project title "Strengthening of University of Peshawar" from well reputed firms having minimum 5-years of experience in supplies/installation of similar equipment & installation of PBX at government/semi-government/private company/department, registered with FBR for Income Tax & Sales Tax (Active Taxpayers), registration with KPRA for Sales Tax purposes. The schedule is given below:

<b>Activity</b>	<b>Date, Time&amp; Venue</b>
Issuance of Bidding Documents	Upto 7 <sup>th</sup> November, 2019 8:00am to 4:00pm
Submission of Bidding Documents	Upto 8 <sup>th</sup> November, 2019 till 10:00am in the Office of undersigned
Pre-Bid Meeting and survey of Zones	1 <sup>st</sup> November 2019 at 10:00am in Committee Room No.2, Administration Block, UOP
Opening of Technical Proposals	11 <sup>th</sup> November, 2019 at 11:00am in Committee Room No.3, Administration Block, UOP

1. Complete Set of bidding documents may be obtained from this office upon submission of bank draft/pay order of Rs.2000/Set in favor of the Treasurer, University of Peshawar.
2. Sealed bids, complete in all respects, must reach this office as per schedule given above.
3. The bid shall invariably be accompanied with CDR of Earnest Money @2% of the quoted bid in favor of the Treasurer, University of Peshawar; otherwise the bid will be straight away rejected.
4. The University of Peshawar reserves the right to reject any or all bids in accordance with procurement rules in vogue.

**Project Director  
Strengthening of University of Peshawar**

**Purchase of Equipment/Hardware & Allied Item for Telephone Exchange under the Project title "Strengthening of University of Peshawar"**  
**[ALL PAGES OF THESE CONDITIONS, PRODUCT SPECIFICATION AND PRICE SCHEDULE ARE MANDATORY TO BE SIGNED AND STAMPED BY THE BIDDER AND SUBMITTED ALONGWITH THE BID, FAILING WHICH THE BID MAY BE REJECTED]**

These documents comprise following Parts:

1. Part-I: Information to Bidders
2. Part-II: Selection Procedure
3. Part-III: Conditions of Contract
4. Part-IV(A): Scope of Work
5. Part-IV(B): Specification of the Product
6. Part-V: Bidder Profile
7. Part-VI: Technical Proposal
8. Part-VII: Financial Proposal

**Part-I Information to Bidders:**

Bidders must follow below requirements while preparing their proposals/ bids proposal and submission:

1. For this tender PPRA's Rule number 36(b) 'Single stage - Two Envelope' procedure of open competitive bidding shall be adopted
2. Bids shall comprise of single envelope containing two separate envelopes, i.e. Technical and Financial Proposals, and clearly marked Technical and Financial proposals on the respective envelopes. Envelopes must also be labelled with the name, address and contact number of the bidding company, and also the Title of the Tender for which the bid is being submitted.
3. Bidders shall submit one copy each of Technical Proposal and Financial Proposal.
4. Technical proposals shall contain Company profile, location of offices, company experience in related field and project completed as per the format given in Part-VI.
5. Bidders are required to fill and sign all the pages of the bid document including Technical and Financial Proposals.
6. Bidders are required to submit their financial proposals in Pak Rupees(PKR).
7. No change in price shall be permissible on account of variation in change in Forex rates to any of the components/modules/services.
8. A bank draft equal to 2% of the bid Cost must accompany the bid as part of financial proposal as earnest money drawn in favor of Treasurer University of Peshawar. The bid shall not be considered without earnest money or less than the 2%value.
9. Bidder must quote for complete solution as given in the Part-IV(A) 'Scope of Work' and Part-IV(B) 'Product Specification'. Any item(s) if missed out and not quoted may lead to rejection of bid.

**Part-II Selection Procedure:**

The objective of this section is to define the steps and procedure which shall be followed during the course of tender process and till the tender is awarded to Selected Bidder. Following are the steps/ procedures which will be followed for the Selection of successful bidder.

1. In first stage, only Technical proposals will be opened in the presence of bidder's representatives who choose to attend.
2. Technical evaluation of the firms shall be based on information required in Technical Proposals as per Part-VI.
3. On the basis of technical evaluation, the financial proposal of only technically responsive bidders (qualified bidders),who have met the entire mandatory requirement and secured

- 70% score in Technical Evaluation, will be opened in the presence of their representatives who choose to attend.
4. For qualifying in Technical Proposal, bidders must fulfil all the requirements as laid out in "Mandatory Requirements" of Technical Proposal and secure at least 70% marks in Technical Evaluation.
  5. If any of the mandatory requirements is not met by the bidder or the bidder failed to secure 70% in Technical Evaluation, the bid will be cancelled straightaway and no further consideration will be given.
  6. For this tender, weightage of Technical Proposal is limited to screening purposes. Financial Proposal of only technically qualified bidder shall be opened. Financial Proposal shall carry 100% weight.
  7. Financial Proposal shall be submitted in the Form given at Part-VII
  8. Financial proposals of bids found technically non-responsive shall be returned un-opened.
  9. The bid found lowest evaluated bid or highest scorer for the cumulative value of both Technical and Financial Scores will be accepted for the award of tender.
  10. After the approval of tender award, a Contract on the stamp paper (the worth of stamp paper shall be determined as per the rules defined) shall be executed by the University of Peshawar with selected bidder within 15 days.

**Part -III        Conditions of Contract:**

1. Any addition, deletion or modification of any clause of these conditions is not acceptable and may lead to rejection of the bid. By submitting the bid, the bidder/vendor declares to abide by and bound by the conditions laid down in the advertisement together with those mentioned hereunder:
2. The firm / bidder shall clearly provide the proof of Registration for GST / NTN on their printed letterheads.
3. Tender number/title and date/time of its opening shall be clearly marked at the face of envelope.
4. Bid for each tender shall be submitted in separate sealed envelope.
5. Tender received after the closing date / time will not be entertained.
6. In case of closed/forced holidays, tender opening time/date will be considered as the next working day.
7. Certificate must be attached showing that the firm has not be blacklisted or debarred by any Government Department.
8. Certificate must be attached showing that the equipment/supplies quoted by the firm are imported through legal channel/(s) and no grey channel/smuggled product is quoted. In case any product provided by the firm was found to be imported otherwise, the University reserves the right to initiate legal/disciplinary action against the firm, including, but not limited to, penalizing/blacklisting the said firm.
9. Successful bidder will have to present the complete import documents of all the quoted items (active) as and when required by the University.
10. Successful bidder will have to present an original note (on manufacturer's letterhead signed and stamped) regarding the purchase of all the quoted equipment with serial number as a proof of genuine purchase from the manufacturer(s) – Manufacturer Authorization Letter
11. The scope of work/product specifications of the items to be supplied is given in Part-IV.
12. The material must be according to specifications. The bidders shall completely fill the Technical Specification Sheet.
13. The Bids/Offer shall remain valid for 90 days from the date of opening. The bidders shall quote their prices inclusive of all duties / Taxes / Packing / Petrol / Transportation /

Installation / Demonstration etc. and all other expenses on delivery to consignee at University of Peshawar, Jamrud Road, Peshawar.

14. Advance payment is not allowed and shall not be asked for.
15. The sealed bids complete in all respect must reach the office of the Project Director, Strengthening of University of Peshawar, Office: New Academic Block-II, Opposite Home Economic College, Office No.05 & 09, Basement Floor, University of Peshawar alongwith earnest money 2% in shape of CDR to be attached with the financial proposal. The earnest money will be released after 3 months of supply subject to the satisfactory report. No bid will be accepted with earnest money.
16. The sealed tenders, complete in all respects, must reach the undersigned at the time and date notified in the advertisement. Late receipts shall not be entertained, whatsoever the reason may be.
17. The tenders shall be opened in accordance with the schedule given in the advertisement. The bidders or their representatives can be present if they so desire.
18. Only those tenders will be entertained which are absolutely clear/unambiguous, unconditional and legible. Any unavoidable cutting/overwriting must be signed and initial.
19. The offered items must be brand new and free from any defect.
20. The University reserves the rights to inspect the working facilities and equipment of the supplier at any stage.
21. The items shall be delivered/installed at the designated locations within 90-days of issuance of the Work Order.
22. A penalty of 0.25% of the total cost of order can be imposed per day upto 10 days for delay on the part of the bidder. A penalty of 0.5% of the total cost of order will be imposed for delay beyond 10 days.
23. In case of failure in the supply, the University Purchase Committee will have the right to cancel the supply order and forfeit the earnest money and black list the firm.
24. The University has the right to increase or decrease the quantum of work according to its requirement/available budget. No additional cost will be paid for such increase or decrease.
25. The payment will be processed after successful installation and commissioning of complete project after the satisfactory report given by the Technical Committee.
26. The successful bidder / contractor will deposit Performance Security amounting to 10% of the Contract Value in the form of Bank Guarantee from a scheduled bank for the warranty period of the said component.
27. Bids will be evaluated in line with the Selection Procedure given in Part-II.
28. The following documents must be attached with the bid:
  - i. Valid NTN and STRN Certificates
  - ii. Duly signed and stamped copy of conditions, product specification and price schedule issued by the University
  - iii. Declaration on Stamp Paper that the firm has never been Black Listed
29. The successful bidder shall have to sign a prescribed agreement on the Stamp Paper of Rs. 100/- duly attested from notary public.
30. The University Purchase Committee may reject, in part or as a whole, any one or all the bids in accordance with the rules in vogue.
31. As required under PPRA rules, the bidder will submit dully filled and attested Integrity Pact

on judicial stamp paper.

32. The successful bidder / contractor will get approved the Optical Fiber Cable from the technical committee before laying.
33. The successful bidder will submit complete work plan wit in seven days after receiving work order for the subject work.
34. The bidder must quote their rates on BOQ issued from the Project Office.

**Signature and Stamp of Bidder:** \_\_\_\_\_

## **Part IV(A): Scope of work**

### **A. Provision and installation IPT network**

- i. Fiber and UG Infrastructure
- ii. Service Platform and Call Control
- iii. Trunk Gateway
- iv. Integrated Access Device (Analog Gateway)
- v. IP Phones
- vi. Analog Phone

<p><b><u>NOTE: SCOPE OF WORK AT S.NO. I, II, III, IV, V, AND VI ABOVE SHALL BE CONFIGURED AND INTEGRATED AS FOLLOWS:</u></b></p> <ul style="list-style-type: none"><li>i. Supply, installation, configuration and integration of active infrastructure Hardware and/or Software for centralized LAN and IPT network with other active solution as per client requirement.</li><li>ii. Supply, installation, and integration of passive infrastructure that is required as a back-bone for centralized cable Network LAN with IPT system to work properly.</li><li>iii. The vendor must complies all the hardware and/or software features given for all active components Switches, call control server(s), trunk gateway, analog gateway and IP Phones, and with network architecture and voice numbering plan.</li><li>iv. The vendor will be solely responsible for evaluating existing telephone Analog and VOIP network environment, understanding the requirements, propose a comprehensive LAN and IPT solution, supply all required hardware and software, installation/implementation and integration of the solution.</li><li>v. Complete technical requirements are explained further in the document which is the integral part of this bid and must be complied by the bidder with respect to product/solution being quoted.</li><li>vi. Scope of services includes installation, configuration and integration, maintenance of hardware and/or software (When and as required) on Turn-Key basis. The vendor/contractor will be responsible of providing all the hardware/software equipment that may be required to setup the complete system.</li></ul>
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**Signature and Stamp of Bidder:** \_\_\_\_\_

1. Supply and installation of network access layer Switches with Optical fiber ports and SFP modules at each zones.
2. Provision and installation of Core Switch for Telephone Network at University of Peshawar.

**Notes:**

1. Warranty Support and services (including hardware/software/Power Supplies) for a minimum period of 3 years must be part of the proposal/solution.
2. Vendors are required to provide a complete project implementation plan with schedule time and diagram for Optical Fiber, IPT core system and Phones and Electrical installation
3. **All of quoted prices should be mentioned clearly in tabular form with respect to the Active/Passive item wise.**

**A. Training**

A technical level detailed training (1-2 weeks) of the Telephone/IT staff must be carried out by manufacturer or its authorized training partner for required systems/products/features. This will include embedding of 1-5 members of the Telephone/IT team in the successful vendor implementation teams. Proper mentoring of these embedded members of the Telephone/IT team will be the responsibility of the successful vendor implementation teams.

1. Training on Network Switching, IPT Core system and IP Phones etc.

**Signature and Stamp of Bidder:** \_\_\_\_\_



**Part IV(B): Product Specification for Purchase of Equipment/Hardware & Allied Item for Telephone Exchange under the Project title “Strengthening of University of Peshawar”  
(to be submitted alongwith Technical Bid)**

**Note:**

**A. Hybrid IP PABX with Telephone Set**

No.	Items Description
1	<p><b><u>Hybrid IP PABX</u></b>  Hybrid IP PABX with Trunk Gateway(Voice Trunk Gateway require 4 E1 ports and expanded up to 8 E1 ports. 30 FXO trunk ports and expanded up to 48 ports of USA, Europe or huawei brand only  Supports up to 800 Analog endpoint registrations provision for 2000 future expansion, Minimum up to 100 concurrent calls  Integrated T1/E1 interface with support to connects trunk gateway using SIP. Gigabit network ports.  Call Logging Facility (System should provide call Logs data)  Comprehensive security protection using SRTP, TLS and HTTPS with hardware encryption accelerator  IVR, Auto attendant, Call queue, System backup, Voicemail to email, Fax to email, Cli Facility, Phonebooks, SIP video  Extension to extension CLI facility, Dual Power supply, Complete in all necessary licenses and parts.  3 years Warranty and Support, installation, commissioning and test run.</p>
2	<p><b><u>Operator Console</u></b>  Must be of the same brand as the call control, media processing, and service platforms.  Operator Console with 20 programmable dual-color buttons per module, 2 pages per module ( upto 40 contacts total), BLF/speed dial, Daisy-chain up to 4 modules for up to 100 contacts/extensions or more  Transfer, Speaker, Redial, Phone Book keys  SIP, 6 Lines, 2x 10/100/1000 Gigabit, RJ9 headset, 2x USB, G.711μ/a, G.729AB, G.722, G.722.1, iLBC  Provides PoE and complies with the IEEE 802.3af standard  CLI Display on Operator Console of all incoming calls &amp; transferable to any ordinary CLI set  3 years Warranty and Support</p>
3	<p><b><u>Integrated Access Device (224 Lines Analog Gateway): USA, Europe or Huawei brand only</u></b>  Centrally connects analog phones. A signal gateway shall support at least 200 analog phones.  Supports local switching, which means that users under the same IAD shall be able to call each other even when the IAD does not register with or is disconnected from the PABX.  Uses the SIP (IETF RFC 3261–3265) protocol.  Supports diverse voice codecs including G.711 a-law/μ-law, G.729, and iLBC  Provides a POTS phone line that supports a transmission distance of at least 5000 meters.  Supports dual-homing and can check the status of the active/standby PABX(preemption support) , AC with dual power modules and DC Support.</p>

4	<b><u>32 ports analog interface boards:</u></b> 32 ports analog interface board along with subscriber cable to connect to MDF.
5	<b><u>IP Phones</u></b> Is of the same brand as the call control, media processing, and service platforms Provides an at-least-2-inch or higher LCD color screen. Provides at least two 10/100/1000 Mbit/s Ethernet ports. Provides the RJ9 port. Provides PoE and complies with the IEEE 802.3af standard. Supports multi-registration. Supports common voice codecs, including G.711a, G.711μ, G.729AB, G.722, iLBC, AAC-LD, G.722.1, G.722.2, Provides TLS-based SIP signaling encryption. Supports TCP/IP, SIP, SDP, UDP, RTP, RTCP, DHCP, DNS, PPPoE, HTTP, HTTPS, SNTP
6	<b><u>Core Switch</u></b> USA, Europe or huawei brand only 24 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+ ports, Currently require 12 single mode 10 KM GE optical transceiver per each switch Support AC Power Supply.
7	<b><u>Access Switch 01</u></b> USA, Europe or huawei brand only 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP port Currently require 2 single mode 10 KM optical transceiver per switch. AC power supply, PoE+
8	<b><u>Access Switch 02</u></b> USA, Europe or huawei brand only 8 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports Currently require 2 single mode 10 KM optical transceiver per switch. AC power supply, PoE+
9	<b><u>SFP Modules</u></b> OpticalTransceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)
10	<b><u>3KVA Branded UPS</u></b> 3KVA UPS with External battery Bank (Qty=1) Eaton, APC or Emerson only
11	<b><u>1KVA Branded UPS:</u></b> 1KVA Branded UPS with 2x 200VA Dry Batteries for each Zone, Eaton, APC or Emerson only
12	5 Personnel local training(Active Hardware/Software IP PABX/IAD) from authorized training center with OEM certifications
13	Installation/Commissioning and Integration of all Active/Passive solution and services testing with support of 3 years on commissioned services User acceptance Testing is also included such as : OTDR and Fluke testing .

**Note for Bidders:**

- i. The successful bidders would provide Three Year Complete Warrantee of the Products/Service and shall replace the part free of cost in case of any defect found during the warrantee period. The successful bidder shall also provide Three Year free of cost after sales service.

**Signature and Stamp of the Bidder:** \_\_\_\_\_

**Part-V: Bidder Profile:**

**Bidder Profile**  
**(To be filled by the Bidder and Submitted with Bid)**

1. Name of the Bidder: \_\_\_\_\_
2. Address of the Head Office: \_\_\_\_\_
3. Address of the Peshawar Office: \_\_\_\_\_
4. Year of Establishment: \_\_\_\_\_
5. National Tax Number: \_\_\_\_\_
6. Sales Tax Registration Number: \_\_\_\_\_
7. Contact Person (Name with Designation and Cell No.): \_\_\_\_\_
8. Company Phone Number (Landline): \_\_\_\_\_
9. Company Fax Number: \_\_\_\_\_
10. Company Email: \_\_\_\_\_
11. Company Website: \_\_\_\_\_
12. Authorized Signature: \_\_\_\_\_
13. Name & Designation: \_\_\_\_\_
14. Company Seal: \_\_\_\_\_

**Part-VI: Technical Proposal**

**NOTE:** Bidders are advised to carefully read the Evaluation Criteria and provide complete information in each category with page numbers in their Technical Proposal. In-complete or partial information will not be weighed up.

**A. Mandatory Requirement:**

Mandatory Requirement																
S.No.	Requirement				Response (Yes/No)	Documentary Proof/ Page No.										
1	Brief Company Profile															
2	Active Taxpayer with Federal Board of Revenue															
3	Sales Tax Registration															
4	A Certificate from the Principal to the effect that the bidder is technically competent to successfully complete the project and in case of failure the Principal will make good the work															
5	Technical expertise available (complete list of technical manpower to be provided indicating position, qualification and experience)															
6	Project Management Organization with Roles & Responsibilities															
7	Certificate must be attached showing that the firm has not be blacklisted or debarred by any Government Department.															
8	Certificate must be attached showing that the equipment/supplies quoted by the firm are imported through legal channel/(s) and no grey channel/smuggled product is quoted.															
9	<p>At least 5 Years' Experience in supplies/installation of similar equipment to government/semi-government/ private company/ department (Documentary Proof in form of Work Order/Satisfactory Report must be attached).</p> <p>Detail as per following proforma be attached:<b>The Vendors should fill the table given below as mandatory requirement.</b></p> <table><tr><td>S.No.</td><td>Name of Customer</td><td>Number of Telephone Lines</td><td>Amount</td><td>Year of Job</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>				S.No.	Name of Customer	Number of Telephone Lines	Amount	Year of Job							
S.No.	Name of Customer	Number of Telephone Lines	Amount	Year of Job												
10	Verifiable presence of the principal or Authorized Distributor at Pakistan with ability to provide rapid/prompt support at University of Peshawar															
11	The Bidder must submit Manufacturer Authorization Letter/Certificate for participating in this tender from manufacturer of Active Hardware and Software															
12	Bidder must be ISO 9001/2008 or 9001/2015 certified															
13	Upon request, bidder must arrange onsite visit where cable network and PABX solution is deployed															
14	Quoted Brands of Active Hardware and Software must be in the business globally for a minimum period of 5 years															
15	CDR @ 2% of bid cost attached with Financial Proposal															

**Signature and Stamp of the Bidder:** \_\_\_\_\_

**B. Non-Mandatory/Scoring Requirement/Criteria**

<b>S.No</b>	<b>Criteria List</b>	<b>Description</b>	<b>Max. Marks</b>	<b>Response of Bidder w.r.t Criteria</b>	<b>Documentary Proof/ Page No.</b>
1	Firm's years of service	Minimum 5 Years (Mandatory); 1 Mark for each year beyond 5 years	10		
2	Value of Similar Telephone Projects	Similar PABX projects in last ten years. Each project will be vetted as follows: Below 10 Mn.PKR = 0 marks Above 10 and below 15 Mn = 2 marks Above 15 and below 20 Mn = 3 marks Above 20 Mn = 4 marks	20		
3	Hardware Experience	Authorized reseller/distributor of quoted hardware. Please attach certificates maximum five (2) reseller certificates. Each reseller certificate carries 5 marks	10		
4	List of certified/Trained staff in the specified domain issued by the Principal Vendor	2 points each for every member, Maximum score 10	10		
5	Support Offices within the Country having helpdesk support and UAN/toll free number	Company having Peshawar office will get 4 points and 2 points each for every support office Maximum score 10	10		
6	Overall solution and presentation	Please propose your solution keeping the following points in consideration a) IP PABX, Trunk Gateway, IAD design and deployment b) Project completion timeline details c) detail with different vendor switches. d)Support service plan  (To be awarded by the Committee after presentation)	10		
	Total Marks		70		

**Signature and Stamp of the Bidder:** \_\_\_\_\_

**Part-VII: BOQ for Purchase of Equipment/Hardware & Allied Item for Telephone Exchange**

Name of Bidder:

S#	Description	Unit	Qty	Rate (Rs.)	Amount in Figures(Rs.)	Amount in Words
<b>(A) Store Item:</b>						
1	UG Cable 200/0.4 Jelly Filled L/A	Meter	2659			
2	UG Cable 100/0.4 Jelly Filled L/A	Meter	1045			
3	UG Cable 50/0.4 Jelly Filled L/A	Meter	1265			
4	UG Cable 30/0.4 Jelly Filled L/A	Meter	695			
5	UG Cable 20/0.4 Jelly Filled L/A	Meter	2283			
6	UG Cable 10/0.4 Jelly Filled L/A	Meter	3178			
7	CT Box 100 Pair with Sealing Compound	No	10			
8	CT Box 50 Pair with Sealing Compound	No	10			
9	CT Box 10/20 Pair with Sealing Compound	No	15			
10	DP Box (TIP or Equilant)	No	79			
11	A4BC Pole with Complete Accessories	No	51			
12	Jointing KIT 200 Pair Br	No	13			
13	Jointing KIT 100 Pair Br	No	7			
14	Jointing KIT 50 Pair Br	No	10			
15	Jointing KIT 10,20, 30 Pair Br	No	15			
16	Steel Box 100/50/30/20 Pair with Paint, Numbering.	No	20			

17		Modular Connector 25 Pair (3M USA)	No	140			
18		UY Connectors	Meter	700			
19	1455-a	GI Pipe 2" dia ( 10 ' each)along with sockets & accessories	Meter	105			
20	1454-a	GI Pipe 1" dia ( 10 ' each)along with sockets & accessories	Meter	210			
21		RCC Joint /Route Indicator with UOP Marking	No	50			
22		Steel Cabinet 300/400 with eathing rod, numbering, paint, etc and other complete Accessories	No	3			
23		Warning Tape	Meter	9404			
24		Indoor PVC 10P	Meter	1000			
25		Indoor PVC 20P	Meter	1000			
26		Indoor PVC 30P	Meter	500			
27		Indoor PVC 50P	Meter	200			
28		MDF 100 Ports with Tag Blocks	No	10			
29		Optical Fibre Cable, SM Duct Burried, 48 Fiber, single mode G.652-D Compliant.	Meter	5,600			
30		48 Fiber joint Enclosure with complete accessories	Nos.	8			
31		OFDF- Preloaded for 4 Fiber Pre-loaded with SC/SC, FC/LC,FC/PC, FC/SC adopter & pigtails complete in all respect.	Nos.	8			

32		Optical Patch Cord with connectors 10 M SC/SC, FC/PC, FC/SC, FC/LC	Nos.	32			
33		Corrugated Plastic Pipe 1" dia	Meter	10			
34		HDPE Pipe 2" dia Thickness 3mm	Meter	9,500			
35	14-55-d	GI Pipe 1" diameter alongwith fixing / installation material	Meter	15			
36	15-79-d	DUCT Patti 2"	Meter	2,000			
37	15-79-b	DUCT Patti 1"	Meter	3,000			
38		RCC Route / Joint Indicator with Pinting& UOP Marking	No	30			
39		Warning Tape	Meter	4,753			
		(A)Total Amount in Rs. (Store)					
(B) Service Item:							
1	03-46-a + 10-03-a + 03-06-a	Marking & excavation of Kacha trenches measuring depth 3', width 40 cm(1.5'), back-filling, disposal of surplus soil, dressing & compacting in normal soil. Testing of Cable, laying of 10 cm thick sand layer below cable in trench, laying of 10 cm sand laye	RM	9500			



2	03-07-c + 10-03-a + 03-06-a	Marking & excavation of Pacca trenches measuring depth 3', width 40 cm(1.5'), back-filling, disposal of surplus soil, dressing & compacting in normal soil. Testing of Cable, laying of 10 cm thick sand layer below cable in trench, laying of 10 cm sand layer	RM	453			
3		Repair of Pacca	RM	550			
4		Laying & Pulling of UG Cable	RM	11125			
5		Fitting of steel boxes/ CT Boxes/DP Boxes at wall or provision of base where required etc with fixing of its GI Pipe i/c required accessories/material wall drilling etc	No	109			
6		Termination of Cable on Minidigital Strip/ Cabinet/CT Box/DPs/ Jointing Kits	Pairs	8026			
7		Preparation of Base for Cabinet Complete with Steel Band, Earth Rods, hooks, locks, painting, numbering, & Painting.	No	3			
8		Road boring( at depth of 5' beneath road)	Meter	237			

9	03-46 +10-03-a + 03-06-a	Excavation in Kachaarea, 4ft x 1.25ft trench dimensions, Making sand bed, laying of cable, providing, back filing, compaction and disposal of surplus material.	RM	2,314			
10	03-7-c +10-03-a +03-06-a	Excavation in Paccaarea, 4ft x 1.25ft trench dimensions, Making sand bed, laying of cable, providing, back filing, compaction and disposal of surplus material or Boaring .	RM	125			
11		Repair of Pacca	Meter	125			
12		Splicing and termination of OF cable on ODFs and joint Box	Fiber	168			
13		Fixing of Duct Pati, GI Pipe etc, in Foot Path & Wall with Civil Works	Meter	85			
14		Installation of OFDF	No	10			
15		Construction of Man Hole (4'x4'x5') complete as per Drawing/Specification.	No	10			
16		Road /footpath boaring along with Tuff Tile Repair in original Position.	Meter	112			
17		Pulling of OFC Cable in HDPE Pipes/GI Pipe/ Carrugated/ Duct Pattis.	Meter	5,600			
		<b>(B)Total Amount in Rs. (Services)</b>					

<b>(C)Active Equipment</b>							
1	Hybrid IP PABX:	<p><b><u>Hybrid IP PABX</u></b></p> <p>Hybrid IP PABX with Trunk Gateway(Voice Trunk Gateway require 4 E1 ports and expanded up to 8 E1 ports. 30 FXO trunk ports and expanded up to 48 ports )of USA, Europe or huawei brand only</p> <p>Supports up to 800 Analog endpoint registrations provision for 2000 future expansion, Minimum up to 100 concurrent calls</p> <p>Integrated T1/E1 interface with support to connects trunk gateway using SIP. Gigabit network ports.</p> <p>Call Logging Facility (System should provide call Logs data)</p> <p>Comprehensive security protection using SRTP, TLS and HTTPS with hardware encryption accelerator</p> <p>IVR, Auto attendant, Call queue, System backup, Voicemail to email, Fax to email, Cli Facility, Phonebooks, SIP video</p> <p>Extension to extension CLI facility, Dual Power supply, Complete in all necessary licenses and parts.</p> <p>3 years Warranty and Support, installation, commissioning and test run.</p>	No	1			
2	Integrated Access Device	Centrally connects analog phones. A signal gateway shall support at least 224 analog phones.	No	7			
3	32 ports analog interface boards	32 ports analog interface board along with subscriber cable to connect to MDF.	No	14			

4	2 Lines IP Phones	Provides an at-least-2-inch or higher LCD color screen. 2 Line IP Phones. Provides at least two 10/100/1000 Mbit/s Ethernet ports.	No	12			
5	6 Lines IP Phones	Must be of the same brand as the call control, media processing, and service platforms. Operator Console with 20 programmable dual-color buttons per module, 2 pages per module ( upto 40 contacts total), BLF/speed dial, Daisy-chain up to 4 modules for up to 100 contacts/extensions or more Transfer, Speaker, Redial, Phone Book keys SIP, 6 Lines, 2x 10/100/1000 Gigabit, RJ9 headset, 2x USB, G.711µ/a, G.729AB, G.722, G.722.1, iLBC Provides PoE and complies with the IEEE 802.3af standard. CLI Display on Operator Console of all incoming calls & transferable to any ordinary CLI set 3 years Warranty and Support	No	4			
6	Core Switch	USA, Europe or huawei brand only 24 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+ ports, Support AC Power Supply.	No	2			
7	Access Switch 01	USA, Europe or huawei brand only 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP port.AC power supply, PoE+	No	2			
8	Access Switch 02	USA, Europe or huawei brand only 8 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports .AC power supply, PoE+	No	7			

9	SFP Modules	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)	No	28			
10	3KVA Branded UPS	3KVA UPS with External battery Bank (Qty=1) Eaton, APC or Emerson only	No	1			
11	1KVA Branded UPS:	1KVA Branded UPS with 2x 200VA Dry Batteries for each Zone, Eaton, APC or Emerson only	No	7			
12	Training	5 Personnel local training (Active Hardware/Software IP PABX/IAD,) from authorized training center with OEM certifications	Job	1			
13	Commissioning Services	Installation/Commissioning and Integration of all Active/Passive solution and services testing with support of 3 years on commissioned services User acceptance Testing is also included such as : OTDR and Fluke testing .	Job	1			
	<b>Total Amount in Rs. (A+B+C)</b>						
	<b>Note: CDR amounting to 2% of Total Bid Cost to be attached</b> <b>CDR No. _____</b> <b>Amount: _____</b> <b>Bank: _____</b>						

**Note:** In case of discrepancy between unit price and total price, the unit price shall prevail.

Prof. Dr. Shah Khusro, (Convener) Chairman, Dept. of Computer Science, UOP	Dr. Yorid Ahsan Zia, ( Member) Principal QCC College, UOP	Mr. Engr. Muhammad Sajjad, Member Director of Works, UOP
Prof. FalakNaz Khalil, (Member) Chairman, Deptt. of Electronics, UOP	Dr. Engr. Muhammad Asif, (Member) Dept. of Electronics, UOP	Mr. Shafat Raza, Member Network Administrator, CITS, UOP.
Mr. Irfanullah Khan, Member/Secretary Deputy Director, CITS, UOP	Mr. Ishtiaqullah Khan/Nominee, Director P & D, UOP	Malik Nazar Hussain Project Director-SOUOP

**Signature and Stamp of the Bidder: \_\_\_\_\_**