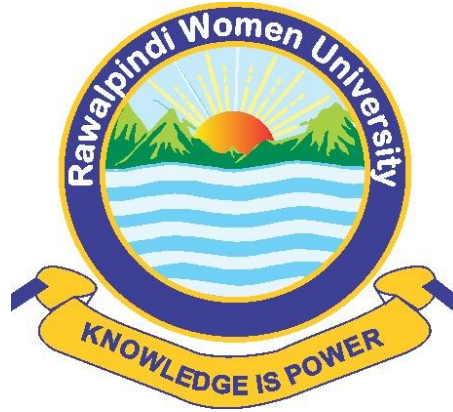


RAWALPINDI WOMEN UNIVERSITY



TENDER DOCUMENT

FOR

“SUPPLY & INSTALLATION OF I.T. EQUIPMENT (Wi-Fi EXPANSION) AND CCTV CAMERAS”

IFB No. RWU/P&S/2022-23/M&E/03

Tender Opening Date: April 05, 2023

Issue To:- _____



RAWALPINDI WOMEN UNIVERSITY (RWU)

INVITATION FOR BIDS

Sealed proposals are invited from reputed firms, registered with Sales Tax & Income Tax departments with active taxpayer profile and having adequate experience for supply/installation of followings.

Sr.	Tender	Bidding Procedure	Total Estimated Cost		2% Bid Security	Tender Fee Rs.
1	Supply & Installation of I.T. Equipment (Wi-Fi Expansion) and CCTV Cameras	Single Stage Two Envelope	Lot-I (Wi-Fi Campus)	12,951,100	259,022	2,000
			Lot-II (Wi-Fi Hostels)	5,395,560	107,911	
			Lot-III (CCTV Cameras)	6,000,000	120,000	
2	Supply of Server Machine, Photocopier, Copy Printer and Laptops		6,400,000	128,000	2,000	
3	Supply of Answer Books and Envelops for Examination Dept.	Single Stage One Envelope	8,700,000	174,000	2,000	

For participation in bidding process, documents can be obtained from the date of publication, on submission of a written request on company's letter head, from the office of Additional Director Purchase & Store, Rawalpindi Women University (RWU). Said request must contain **tender document fee** (as mentioned above) in the form of Pay Order/Demand Draft/CDR in favor of **Rawalpindi Women University**. For information only, bidding documents can be **downloaded from PPRA's website**.

Proposal (technical proposal in case of Single Stage Two Envelopes) must contain **bid security** in the form of CDR/Demand Draft/Pay Order of **2% of estimated cost, as mentioned in the tender documents**, in favor of **Rawalpindi Women University**. Sealed bids in conformity with bidding documents should reach the office of the Additional Director Purchase & Store, no later than **11:00AM on 05-APR-2023**. Proposals shall be opened on same day **at 11:30AM** in the presence of bidders or their representatives having valid authority letter from their respective organization.

Pre-bid meeting shall be held on 28-Mar-2023. Bids which are incomplete, unsigned & unstamped on bid form, unsealed, without bid security and late by specified time shall not be considered. University shall not be responsible for delays & non delivery caused by courier firms/post office etc. regarding issuance & receiving of bidding documents/proposals etc.

The University Management may reject all bids at any time prior to the acceptance of a bid, as provided under Rule-35 of Punjab Procurement Rules 2014.

Additional Director Purchase & Store
Room No. 204, BS Block,
Rawalpindi Women University
6TH Road, Satellite Town, Rawalpindi
Email: purchase@rwu.edu.pk



GENERAL INSTRUCTIONS FOR BIDDERS

1. Bidders are requested to read each & every clause of bidding documents carefully including instructions for bidder part.
2. Organization must be registered with Federal Board of Revenue for Income & Sales Tax Purposes with active taxpayer profile.
3. Bidding documents can be obtained from the date of publication on submission of a written request on company's letter head from the office of Additional Director Purchase & Store, Rawalpindi Women University. Request must be accompanied by **Bid Document Fee**, as prescribed in tender notice, in the form of Pay Order/Demand Draft/CDR in favor of **Rawalpindi Women University**.
4. **Technical Proposal** must contain **Bid Security** (2% of Estimated Cost as given in tender documents) in the form of **CDR/Demand Draft/Pay Order** in favor of **Rawalpindi Women University**.
5. Bidding procedure of **Single Stage Two Envelope** shall be applicable under Punjab Procurement Rule 38 (1) which implies; -
 - i. The bid shall be submitted in a single package consisting of two separate envelopes, containing separately the financial and the technical proposals;
 - ii. The envelopes shall be marked as, "*Financial Proposal*" and "*Technical Proposal*";
 - iii. In the first instance, the "*Technical Proposal*" shall be opened and the envelope marked as "*Financial Proposal*" shall be retained unopened in the custody of University;
 - iv. University shall evaluate the technical proposal and shall have right to reject proposals which does not conform to specified requirements;
 - v. After the evaluation and approval of technical proposals University shall open the financial proposals of technically acceptable bids for which time, date and venue shall be communicated to bidders in advance;
 - vi. The financial bids found technically not acceptable shall be returned un-opened to the respective bidders and;
 - vii. The lowest evaluated bidder shall be awarded contract within the original or extended bid validity period;
6. **Sealed bids** in conformity with bidding documents should reach at the address and not later than date & time, as prescribed in tender notice. Proposals shall be opened on the same **day & time as prescribed in tender notice** in the presence of bidders or their authorized representatives.
7. University shall not be responsible for delays & non delivery caused by courier firms/post office etc. regarding issuance & receiving of bidding document/ proposals.
8. **In case of holiday** or unforeseen situation resulting closure of the University on the date of opening, bids shall be submitted/opened on next working day at the same time & venue.
9. **Bids which are incomplete**, without signatures & stamp, unsealed, without bid security and late by specified time shall not be considered.
10. Bids proposing substandard, low quality or refurbished items shall be rejected. Documentary evidence showing genuineness of brand name, model, and country of origin of the product so offered should also be attached, if required.
11. **Flags** may be applied putting in order all necessary documents and particulars to these instructions. Page numbers should be written on entire proposal with sign & stamp of authorized officials.
12. Bidding organization is expected to quote **proposal in accordance to bid form**. In case it intends to use its own pattern of bid form then every component offered by bidding organization must be clearly identified about its matching/reference component number given in University's prescribed bid form.



13. Bidding organization should submit an **affidavit about its status about present blacklisting** by Govt. and its subsidiary organizations/ departments/ autonomous bodies.
14. Rates must be quoted in Pak Rupees including all relevant taxes and “**FOR RAWALPINDI WOMEN UNIVERSITY**” basis.
15. **One person may submit one bid** and if one person submits more than one bids, the procuring agency shall reject all such bids, as provided under Rule-36a of Punjab Procurement Rules, 2014.
16. Successful bidder shall have to enter into **contract agreement** on stamp paper, of **0.25% of order value/contract amount**, as per prevailing rules, on standard terms & conditions of bidding regarding items, technical specifications, their costs, delivery time, removal of defects, warranty, inspection & completion certification of qualitative and quantitative aspects, billing, payments, closing of contract and other necessary terms.
17. **Performance guarantee** in shape of CDR/Bank Draft/unconditional bank guarantee shall be submitted by successful bidder/contractor equivalent to **5% of contract amount**. Insurance guarantees/cheques or third-party undertakings shall not be acceptable.
18. **Quantity** of items may vary (increase/decrease) at the time of supply order, as per PPRA rules.
19. Proposals shall remain valid for at **least 90 days**, initially, w.e.f. opening date.
20. University Management may reject all bids at any time prior to the acceptance of a bid, as provided under Rule-35 of Punjab Procurement Rules, 2014.
21. "Under rule 21(1) of Punjab Procurement Rules 2014, University management may, for a specified period, debar a bidder or contractor from participating in any public procurement process, if the bidder or contractor has:
 - I. Acted in a manner detrimental to the public interest or good practices.
 - II. Consistently failed to perform his obligation under the contract.
 - III. Not performed the contract up to the mark.
 - IV. Indulged in any corrupt practice."
22. **Dispute Resolution:** Parties shall mutually settle disputes related to this contract. If attempts do not yield any results within a period of 30 days, the Vice Chancellor, Rawalpindi Women University shall be the Competent to resolve dispute(s) related to this contract and her decision shall be final.

SPECIFIC INSTRUCTIONS FOR BIDDERS

23. Conditional bids, if submitted, shall be rejected at any stage of procurement process by the Rawalpindi Women University.
24. **5% Performance guarantee** will be retained by the University for the period of warranty of products supplied as offered by the manufacturer or minimum one year.
25. **Pre-bid meeting** shall be held on **28-Mar-2023 at 10:30am**. Decisions of the pre-bid meeting shall be considered as part of tender documents and minutes shall be uploaded on the University's website (www.rwu.edu.pk).
26. Bidder must quote for whole lot(s) (i.e. for all items mentioned in a lot) and supply order will be issue based on lowest quoted price for whole lot.
27. Firm participating in tender must have sufficient technical and supporting staff at their disposal, having complete understanding of network and design.
28. The successful bidder shall be bound to deliver ordered items to the University within 4-6 weeks w.e.f. the date of issuance of supply order/award letter. However, bidder/firm may attach expected delivery schedule/plan with her technical bid.
29. **Force Majeure**
 - a. The Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its delay in



performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

b. For purposes of this clause, “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods and freight embargoes.

c. If a Force Majeure situation arises, the Supplier shall promptly (within one week) notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning “Force Majeure” may be decided through the Central Purchase Committee of Rawalpindi Women University.



1. **Evaluation criteria:**

The proposals will be evaluated based on the submitted documents as per following criteria.

a. Technical Evaluation Criteria

- I. Technical Specifications of quoted items must meet technical requirements mentioned in technical details of tender documents (Mandatory condition)
- II. **Qualifying marks** are **65** for following criteria.

Sr.	Criteria	Total
1	<u>Specific Experience</u> of undertaking 3 Similar Assignments with Government Agencies in last 3 years supply order equal to 33% of estimated cost of tender/lot = 15 Points supply order equal to 66% of estimated cost of tender/lot = 30 Points supply order equal to 100% of estimated cost of tender/lot = 45 Points	45
2	Financial Position (Copy of annual Income Tax Returns for last 3 years i.e. 2022, 2021, 2020)	30
3	Authorization/dealership/distributer certificates	10
4	MAL letter must be attached for quoted products	5
5	Product warranty (1 year = 5 marks, 2 years or more = 10 marks)	10
	Total	100

- b. **Financial bids of those bidders will be open whose technical bids are considered as qualified by the respective committee/office.**



Bidder's Profile

Firm Name			
Entity of Firm	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Company <input type="checkbox"/> Other		
Nature of Business			
Addresses / Branches			
Telephone / Fax			
Email			
Date & Place of Registration			
Company's NTN / Sales Tax Reg. No.	NTN _____ S.T.N. _____		
Owner's Detail	Name: _____ CNIC _____ Address _____		
No. of Employees			
Year of Establishment			
Annual Sales	2019-20	2020-21	2021-22
Five Major Clients	i) _____ ii) _____ iii) _____ iv) _____ v) _____		
Bank Details	Bank: _____ A/c # _____		

SIGNATURE



Check List for Required Documents

Name of Organization: _____

Sr.	Document	Attached Yes / No	Flag/ Page No.
1	Copy of CNIC of owner and/or authorized representative of the company along with authority letter.		
2	2% Bid Security to be attach with technical bid Lot-I = Rs. 259,022 Lot-II = Rs. 107,911 Lot-III = Rs. 120,000		
3	Certificate(s) of Registration with FBR (having NTN & GST numbers/detail) with active taxpayer profile		
4	Certificate of Professional Tax payment for current year		
5	Affidavit of Non-Black Listing (on stamp paper not less than Rs. 100)		
6	Authorization/Dealership/Distributor certificate (If required)		



TECHNICAL SPECIFICATIONS OF ITEMS

[As given below in Lot-I, II & III or equivalent]

LOT-I: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU CAMPUS

Sr.	Name of Equipment/Specifications or Equivalent	Qty.	Unit Cost	Total Cost
1	<p>Access Point Full Range (Cisco/Ruckus or Equivalent)</p> <ul style="list-style-type: none"> • Controller Based IEEE 802.11a/b/g/n/ac/ax • 2.4GHz & 5 GHz channels,4x4:4,1X2.5GE port • Min 1024 Concurrent users • Beam Flex Support • Channel Fly support • Antenna Patterns 4000 • Total Throughput 3500 Mbps • Channelization of 20MHz, 40MHz, 80MHz and 160MHz,1Pv4, 1Pv6 Support, WPA-PSK, WPA-TKIP, WPA2 AES, WPA3- Personal, WPA3-Enterprise, 802.11i, WIPS/WIDS • NAT DHCP support • 16 SSID per AP, User Based Rate Limiting, POE 802.3af and 802.3at support • PD-MRC support • Direct Multicast, Dynamic Pre-Shared Key Support • Smart Roam, GRE, Soft-GRE,3-year warranty • Support all environment Controller Based Controller less and cloud based, Must quote License if applicable 	1 Nos.	371700	371700
2	<p>Access Point High Range (Cisco/Ruckus or Equivalent)</p> <ul style="list-style-type: none"> • Controller Based IEEE 802.11a/b/g/n/ac/ax • 2.4GHz & 5 GHz channels,4x4 802.11ac/ax, Min 500 Concurrent users, Total Throughput 2800 Mbps • Channelization of 20MHz, 40MHz, 80MHz and 160MHz,1Pv4, 1Pv6 Support, WPA-PSK, WPA-TKIP, WPA2 AES, WPA3- Personal, WPA3-Enterprise, 802.11i, WIPS/WIDS • Beam Flex Support • Channel Fly support • NAT DHCP support • 16 SSID per AP, User Based Rate Limiting • 128 Antenna Pattern supported • POE 802.3af and 802.3at support • PD-MRC support • Direct Multicast, Dynamic Pre-Shared Key Support • Smart Roam, GRE, Soft-GRE,3-year warranty • Support all environment Controller Based Controller less and cloud based, Must quote License if applicable 	5 Nos.	342200	1711000
3	<ul style="list-style-type: none"> • Access Point Mid-Range (Cisco/Ruckus or Equivalent) 	50 Nos.	159300	7965000



	<ul style="list-style-type: none"> • 2.4GHz & 5 GHz channels 2x2:2 802.11ac/ax • Beam Flex Support • Channel Fly support • Min 200 Concurrent users • Throughput 2.4GHz support 500Mbps and 5GHz support 1200Mbps or Higher, Channelization of 20MHz, 40MHz, 80MHz and 160MHz, • Back Ground Scanning Based, 1Pv4, 1Pv6 Support • WPA-PSK, WPA-TKIP, WPA2 AES, WPA3- Personal, WPA3- Enterprise, 802.11i, Dynamic • PSK, OWE · WIPS/WIDS • NAT DHCP support • 15 SSID per AP, User Based Rate Limiting, POE 802.3af and 802.3at support • PD-MRC support • Dynamic Pre-Shared Key Support, Smart Roam • Access Point must be able to work without controller in case of any failure, L2TP, GRE, Soft-GRE, 3-year warranty, Support all environment Controller Based Controller less and cloud based, Must quote License if applicable 			
4	<ul style="list-style-type: none"> • Access Points Outdoor (Cisco/Ruckus or Equivalent) • Controller Based IEEE 802.11a/b/g/n/ac/ax • 2.4GHz & 5 GHz channels 2x2:2 802.11ac/ax • Beam Flex Support, • Channel Fly support • Min 200 Concurrent users, Throughput 2.4GHz support 500Mbps and 5GHz support 1200Mbps or Higher, Channelization of 20MHz, 40MHz, 80MHz and 160MHz, Back Ground Scanning Based • 1Pv4, 1Pv6 Support, WPA-PSK, WPA-TKIP, WPA2 AES, WPA3- Personal, WPA3- Enterprise, 802.11i, Dynamic • PSK, OWE · WIPS/WIDS, NAT DHCP support • PD-MRC support • 64 Antenna Pattern • 15 SSID per AP, User Based Rate Limiting, POE 802.3af and 802.3at support, Dynamic Pre-Shared Key Support • Smart Roam, L2TP, GRE, Soft-GRE, 3-year warranty • Support all environment Controller Based Controller less and cloud based, Must quote License if applicable 	2 Nos.	383500	767,000
5	<ul style="list-style-type: none"> • Network Cabinet • 6U Network Cabinet 	2 Nos.	18,290	36,580
6	<ul style="list-style-type: none"> • PDU (Power Distribution Unit) 	3 Nos.	7,080	21,240
7	<ul style="list-style-type: none"> • Patch Cord: (Schneider/Digitus or Equivalent) 1 Meter, Pure Copper (Branded) 	100 Nos.	944	94,400
8	<ul style="list-style-type: none"> • Network Patch panel: (Schneider/Digitus or Equivalent) Cat 6 Patch Panel 	3 Nos.	26550	79,650
9	<ul style="list-style-type: none"> • Cable Manager (Schneider/Digitus or Equivalent) 	3 Nos.	5900	17,700
10	<ul style="list-style-type: none"> • Rj45 Connector Box (100 Pc) (Baynet or Eqv.) 	5 Nos.	4956	24,780



11	Cat 6 Pure Copper Cable Roll (Schneider/Digitus or Equivalent)	15 Nos.	95816	1,437,240
12	LAN Networking/Power Work: Connectivity mounting and installation of all Access points with Switches existing and current purchase. Duct and PVC pipe for connectivity of Access point throughout the campus including Pure Copper Cat 6 Cable Roll Complete End to End Connectivity of network switches with Core switches and Wireless LAN controller with Access Points. Power Socket with Power Cable for Network Cabinets wherever Required	1 Job		0
13	Adam Jee DURA DUCT or Equivalent (Size 16 X 25 mm)	150 Nos.	590	88,500
14	Adam Jee DURA DUCT or Equivalent (Size 16 X 38 mm)	120 Nos.	826	99,120
15	Adam Jee DURA DUCT or Equivalent (Size 40X 40 mm)	110 Nos.	2124	233,640
16	Cage Nuts Assembly for Racks and Cabinets	50 Nos.	71	3,550
	Total cost of complete solution (Turnkey Basis)			12,951,100



LOT-II: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU HOSTELS

Sr.	Name of Equipment/Specifications or Equivalent	Qty.	Unit Cost	Total Cost
1	Access Point Full Range (Cisco/Ruckus or Equivalent) <ul style="list-style-type: none">• Controller Based IEEE 802.11a/b/g/n/ac/ax• 2.4GHz & 5 GHz channels,4x4:4• Min 500 Concurrent users, Total Throughput 1700 Mbps, Enable/Disable Wireless Radio, Captive Portal Authentication, User Based Rate Limiting• Rogue AP detection, SNMP support, Http/Https Support• Airtime Fairness, Transmit Power Control, GRE, Soft-GRE,1 year warranty,802.3at POE Support• Support all environment Controller Based cloud based, Must quote License if applicable	15 Nos.	84488	1267320
2	Access Point Full Range (Cisco/Ruckus or Equivalent) <ul style="list-style-type: none">• Controller Based IEEE 802.11a/b/g/n/ac• 2.4GHz & 5 GHz channels, Min 500 Concurrent users• Total Throughput 1700 Mbps, Multiple SSID• Enable/Disable Wireless Radio, Captive Portal Authentication, User Based Rate Limiting• Rogue AP detection, SNMP support• Http/Https Support, Airtime Fairness, Transmit Power Control, GRE, Soft-GRE,1 year warranty,802.3 af/at POE Support, Support all environment Controller Based cloud based, Must quote License if applicable	25 Nos.	58764	1469100
3	Layer-2 24 port POE Network Switch (Cisco/Ruckus or Equivalent) <ul style="list-style-type: none">• Layer 2 Fully Managed Access Switch should have 24xGE RJ-45 POE interfaces, Switch must have 4x10GE SFP ports for uplink, Switching Capacity 128Gbps.• Forwarding Rate 95Mpps, Minimum 370 Watt POE Budget,802.3 at/af Compliant, Spanning Tree Protocol• 1 years hardware replacement Warranty 24/7 support	4 Nos.	182900	731600
4	Layer-2 24 port POE Network Switch (Cisco/Ruckus or Equivalent) <ul style="list-style-type: none">• Layer 2 Fully Managed Access Switch should have 24xGE RJ-45 POE interfaces.• Switch must have 4x1GE SFP ports for uplink.• Switching Capacity 56Gbps, Forwarding Rate 41Mpps• Minimum 250 Watt POE Budget,802.3 at/af Compliant,1 year hardware replacement Warranty 24/7 support	2 Nos	147500	295000
5	SFP Transceivers 10GE Single Mode: Single Mode 10 GE SFP + Modules (Ruckus/ Brocade or Equivalent)	16 Nos.	21240	339840



6	Cat 6 Pure Copper Cable Roll (Schneider/Digitus or Equivalent)	10 Nos.	95816	958160
7	Network Cabinet (6U Network Cabinet)	2 Nos.	18290	36580
8	PDU (Power Distribution Unit)	2 Nos.	7080	14160
9	LAN Networking: Connectivity mounting and installation of all Access points with Switches existing and current purchase. Connectivity of access points throughout the Hostel, Complete End to End Connectivity of network switches with Core switches And Wireless LAN controller. Power Socket with Power Cable for Network Cabinets wherever Required.	1 Job		
10	Network Patch panel: (Schneider/Digitus or Equivalent) Cat 6 Patch Panel	2 Nos.	26550	53100
11	Cable Manager (Schneider/Digitus or Equivalent)	2 Nos.	5900	11800
12	Network Patch Cord 1 Meter	50 Nos.	944	47200
13	Adam Jee DURA DUCT or Eqv. (Size 16 X 25 mm)	115 Nos.	590	67850
14	Adam Jee DURA DUCT or Eqv. (Size 16 X 38 mm)	70 Nos.	826	57820
15	Adam Jee DURA DUCT or Eqv. (Size 40X 40 mm)	20 Nos.	2124	42480
16	Cage Nuts Assembly for Racks and Cabinets	50 Nos.	71	3550
Total estimated cost of complete solution (Turnkey Basis)				5,395,560

Scope of Work and Terms & Conditions for Lot-I & Lot-II

- Rawalpindi Women University is committed to attain the best network practice and Online and Wireless LAN infrastructure throughout the campus therefore we need Wireless network solution for our Campus.
- Our campus comprises of more than 20 building. We already have Fiber connectivity as per the standard for each existing building blocks.
- The Supplier shall be liable to install, check and commission of the Wireless equipment at the site.
- IP scheme with multiple VLANs to segregate and identify network traffic must be attached in Technical Proposal.
- Solution must provide Blanket Coverage of Wi-Fi Signal at each block to give maximum coverage to users through expansion of the existing Wi-Fi network.
- New LAN/WLAN equipment and design must be compatible and shall include the existing equipment integration and compatibility.
- Bidder must be responsible for provision/installation of power sockets/cables etc. required for newly installed Switches, Access Points, Uplinks and Cabinets etc.
- Bidder shall be responsible for complete end-to-end connectivity and network shall be fully converged.
- Wireless solution must be compatible and integrated with existing Wi-Fi solution and provide seamless roaming while users are moving anywhere in the campus.
- Lot-I** and **Lot-II** will be turnkey solutions i.e. the bidder must quote all items in these lots for supply, installation/commissioning and integration with existing network/switches/access points etc. Contract will be awarded to the lowest evaluated bidder for whole lot(s), instead of individual items of the lot.



LOT-III: SUPPLY & COMPLETE INSTALLATION OF CCTV CAMERAS

Sr.	Name of Equipment/Specifications or Equivalent	Unit	Qty	Unit Rate	Total
1	4MP POE Bullet Camera 4 MP IP BASED OUTDOOR/BULLET CAMERA Resolution: 4 MPX Lens: fixed focal, f=2.8 mm/4mm /F1.6 Human/Vehicle Object Classification D/N function- IR cut filter Video content analysis based on Deep Learning MicroSD support WDR with double scan sensor Min. Illumination:0.005 lx (0 lx, IR on) IR LED, range up to 30/50m, Surge Protection : IP TVS 4000V Degree of Protection : IP 67 (Dahua/Uniview/Hikvision)	Nos	96	15,894.45	1,525,867
2	4MP PTZ Camera 4MP PTZ CAMERA 25xZOOM LENS Resolution: 4MPX Lens: motorized varifocal, AL and AF function, optical zoom 25x, f=4.8 120mm/F1.65 3.8 D/N function - IR cut filter Auto Tracking, video content analysis based on deep learning, microSD card support, WDR with double scan sensor Min. Illumination from 0.002 lx (0 lx, IR on) IR LED, range up to 100 m (depends on current optical zoom value) Surge Protection : IP TVS 4000V Degree of Protection : IP 67 (Dahua/Uniview/Hikvision)	Nos	1	95,367.00	95,367
3	NVR 16 Ports Up to 32-ch IP camera inputs H.265+/H.265/H.264+/H.264 video formats Up to 2-ch@8 MP or 4-ch@4 MP or 8-ch@1080p decoding capacity 1 HDMI and 1 VGA interfaces, both interfaces support independent video output 2 SATA interfaces for HDD connection (up to 10 TB capacity per HDD) Up to 256 Mbps incoming bandwidth (Novus/Bosh/Honeywell/Hikvision)	Nos	6	36,067.67	216,406
4	Hard Drive 8TB Surveillance Hard Drive 3.5" SATA 6Gb/s	Nos	12	55,019.25	660,231
5	LED 43 Inch 4K HDMI, VGA and USB inputs, narrow front bezel, 24/7 operation	Nos	4	57,464.50	229,858
6	Network Keyboard Full-featured network keyboard Supports various cameras, NVRs, DVRs Flexible 4-axis joystick, Buttons can be used to perform powerful functions 128 x 64 screen displays all important information	Nos	1	55,019.00	55,019
7	Network Switch POE 8 Port L2 Un Managed POE Switch 8*10/100/1000 (Hikvision / D-link / TP-Link / D-netLink / Dahua)	Nos	19	22,618.42	429,750
8	Network Switch POE 24 Port L2 Managed POE Switch 24*10/100/1000 (Hikvision / D-link / TP-Link / D-netLink / Dahua)	Nos	5	175,500.00	877,500
9	UTP Cat-6 Cable 24 AWG 4 Pair 305 Meter Per Roll Required Brand (i-Connect or Equivalent)	Roll	8	111,150.00	889,200
10	Cabinet Box 4U	Nos	20	7,946.65	158,933
11	DP Connector	Nos	20	246.85	4,937
12	Electric Cable 7/29	Roll	6	16,505.17	99,031
13	4"x4" Box For CCTV(Local)	Nos	96	244.53	23,475
14	PVC Duct 16x38 Per length 10 Feet	Nos	192	239.85	46,051
15	PVC Duct 16x38 per length 10 feet	Length	192	793.26	152,306
16	PVC Duct 40x40 per length 10 feet	Length	40	1,649.70	65,988
17	Steel pole 2" for PTZ 10 Feet	Nos	1	30,566.00	30,566
18	Data Rack 27/U for control room	Nos	1	40,347.00	40,347
19	Installation	Job	1	300,887.00	300,887
20	RJ 45 Connectors Cat-6 (100 Pc Per Box)	Nos	4	7,020.00	28,080
21	SSTP Cat-6A Cable 24 AWG 4 Pair 305 Meter (i-Connect/Corning/3M or Equivalent)	Nos	1	70,200.00	70,200
Total estimated cost of complete solution (Turnkey Basis)					5,999,999



Scope of Work and Terms & Conditions for Lot-III

- Rawalpindi Women University is committed to attain the best security Monitoring Services throughout the campus, therefore, we need best Closed-Circuit television (CCTV) monitoring solution for our Campus.
- The University campus comprises of more than 20 building. We already have fiber connectivity as per the standard for each existing building blocks, therefore, network uplink can be used for CCTV Camera connection.
- The Supplier shall be liable to install, check and commission of the CCTV Camera at the site.
- Bidder must be responsible for provision/installation of power sockets/cables etc. required for newly installed LED, Switches, CCTV Camera's, Uplinks and Cabinets etc.
- Bidder shall be responsible for complete end-to-end connectivity with NVRs, LEDs and Cameras etc.
- **Lot-III** will be turnkey solutions i.e. the bidder must quote all items in this lot for supply, installation/commissioning. Contract will be awarded to the lowest evaluated bidder for whole lot, instead of individual items of the lot.



TECHNICAL BID FORM

(To be filled, signed, and stamped by the bidder)

LOT-I: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU CAMPUS

Sr.	Brand Name/Model of Offered Item with Detailed Specifications	Qty.	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____

Signature of Bidder with Date & Stamp: _____ (Page 16 of 21)



TECHNICAL BID FORM

(To be filled, signed, and stamped by the bidder)

LOT-II: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU HOSTELS

Sr.	Brand Name/Model of Offered Item with Detailed Specifications	Qty.	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____

Signature of Bidder with Date & Stamp: _____ (Page 17 of 21)



TECHNICAL BID FORM

(To be filled, signed, and stamped by the bidder)

LOT-III: SUPPLY & COMPLETE INSTALLATION OF CCTV CAMERAS

Sr.	Brand Name/Model of Offered Item with Detailed Specifications	Qty.	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____

Signature of Bidder with Date & Stamp: _____ (Page 18 of 21)



FINANCIAL BID FORM

(To be filled, signed, and stamped by the bidder)

LOT-I: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU CAMPUS

Sr.	Brand Name/Model of Offered Item	Qty.	Unit Rate with GST	Total with GST
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
Total Amount with GST				
Amount in Words: -				

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____



FINANCIAL BID FORM

(To be filled, signed and stamped by the bidder)

LOT-II: SUPPLY & COMPLETE INSTALLATION OF ACCESS POINTS & ALLIED MATERIAL ETC. FOR WIFI FACILITY AT RWU HOSTELS

Sr.	Brand Name/Model of Offered Item	Qty.	Unit Rate with GST	Total with GST
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
Total Amount with GST				
Amount in Words: -				

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____

Signature of Bidder with Date & Stamp: _____ (Page 20 of 21)



FINANCIAL BID FORM

(To be filled, signed, and stamped by the bidder)

LOT-III: SUPPLY & COMPLETE INSTALLATION OF CCTV CAMERAS

Sr.	Brand Name/Model of Offered Item	Qty.	Unit Rate with GST	Total with GST
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
Total Amount with GST				
Amount in Words:-				

Authorized Person

Name: _____ CNIC No: _____
Phone No. _____ Company Name: _____
Signature: _____ Date & Stamp: _____

Signature of Bidder with Date & Stamp: _____ (Page 21 of 21)