

KHYBER COLLEGE OF DENTISTRY MTI PESHAWAR



Procurement of IT Equipment and Computer Accessories For Khyber College of Dentistry (MTI) Peshawar

Standard Bidding Documents (SBD)

Preface:

Note: The prospective bidder is expected to examine the Bidding Documents carefully, including all Instructions, Terms & Conditions, and Specifications etc. Failure to furnish all information required by the Bidding documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect would result in the rejection of the Bid.

INTRODUCTION:

Medical Teaching Institution (MTI)/ Khyber College of Dentistry, Peshawar invites. Sealed bids from eligible bidders for KCD under Open Competitive Bidding under rule 6(2) (a) "Single Stage Single Envelope" bidding procedures of Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Rules 2014.

1) INSTRUCTIONS TO BIDDERS:

1. This Bidding procedure will be conducted in light of Khyber Pakhtunkhwa Public Procurement Regulatory Authority (KPPRA) Laws, Rules made there under, along with Standard Bidding Documents.
2. The bids will be opened on 05-06-2023 in presence of the bidders/representatives who choose to attend
3. Any bid received after the deadline for submission of bids shall not be entertained and shall be returned unopened to the Bidder.
4. The bid should be complete in all respect and must be signed by the bidder.
5. All prices quoted must be in Pak Rupees (PKR) and should include all applicable taxes. If not specifically mentioned in the Quotation, it will be presumed that the prices include all the taxes. GST shall be included where applicable
6. Bidders are essentially required to provide correct and latest postal/email/web addresses, phone/mobile/fax numbers for actively and timely communication.
7. For any query, clarification regarding Services / Bid Solicitation Documents, the applicants may send a written request at least one day prior to the opening date.
8. The Bidder may after its submission withdraw its bid prior to the expiry of the deadline prescribed for submission of bids. Withdrawn bids will be returned unopened to the Bidders.
9. Any bid not received as per terms and conditions laid down in this document are liable to be ignored. No offer shall be considered if:
 - a. Received without earnest money;
 - b. It is received after the date and time fixed for its receipt;
 - c. The offer is ambiguous;
 - d. The offer is conditional i.e. advance payment, or currency fluctuations etc.;
 - e. The offer is from blacklisted firm in any Federal / Provincial Govt. Deptt:
 - f. Only typed tender on original prescribing letter pad, sealed & signed should be submitted, the quoted Price must be pre printed and hand written quoted price will not be acceptable. The tenders must be according to hospital specification; alternate rates (Double rates for single Items) will not be accepted.
10. Usage of correction fluid & corrections are strictly prohibited unless duly initialed.
11. Any erasing / cutting etc. appearing on the offer, must be properly signed by the person signing the tender.
12. Bids will be rejected if the Bid is in some way connected with bids submitted under names different from his own.
13. In case of Bid Tie, the decision will be taken by making toss/draw/Recall sealed quotation in front of the bidders.
14. Any direct or indirect effort by a bidding firm to influence this institution during the process of selection of a bidder or award of contract may besides rejection of its bid result into its disqualification from participation in the KCD Peshawar's future bids.

2) ELIGIBILITY CRITERIA:

- Bidders must give compliance to the below mentioned clauses as these are mandatory to being eligible for the bidding process. Relevant certificates must be attached.
- The bidder must be registered with Income / Sales Tax Department, reflected as Active Tax Payer on the list of FBR.NTN and for services KNTN.
- The bidder shall provide an undertaking that the bidder has not been declared black listed by any Governmental/ Semi-Governmental institutions.
- Bidders shall not be eligible to bid if they are under a declaration of Ineligibility for corrupt and fraudulent practices issued by any government organization in accordance with the Section 44(1) KPP Rules 2014.

3) TERMS & CONDITIONS

01. The rates should be valid upto 30th June 2024.
02. By hand/quotation and hand written tenders will not be accepted, Original brochure will be attached with Bid.
03. Call Deposit must be attached with the tender documents otherwise tender document will not be received.
04. The successful bidder will supply the items within 30 days after the receipt of confirm supply order. If the supplier failed to supply the items within stipulated period of time then 02% penalty will be charged, 05% penalty will be charged for delivery more than 15 days.
05. All Government Taxes i.e Income Tax @4.5%, Sales Tax @ 18% and 1% Stamp Duty or **as per Government rules** will be deducted from the demand bill of the successful bidder.
06. The supply will be treated canceled if the suppliers supply wrong item or not according to specification and Call deposit will be forfeited.
07. Full particulars with specification, of each item with the country origin (ml/gm/kg, lit, No etc) should be mentioned with the tender/quotation against each item.
08. The supplier will be responsible for any loss during the transit and will have to replace the damage or lost items.
09. The firm (approved supplier) will be responsible for free service/repair/replacements of spare parts free of cost during the guarantee period which should be mentioned in the quotation and should not be less than one year.
10. The payment will be released on the receipt of complete supply. Security/Call deposit will be released after the expiry of the bid validity period of selected firms.
11. Security will be deducted as per applicable rules on each supply order of Equipments and will be released after warranty period.
12. THE DEAN KCD MTI Peshawar may accept or reject any or all of the bids under Rule 47 of KPPRA Rules, 2014.
13. The successful bidder will sign an agreement on Judicial Stamp Paper of Rs.100/- accepting all the terms and conditions mentioned above.

14. Any supplier who quotes/supplies substandard items/materials will be penalized with not only call deposit being forfeited but also firm will be blacklisted.

4. GENERAL CONDITIONS: -

1. KCD Peshawar shall evaluate the bid in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements.
2. Alternative bid shall not be considered and shall be rejected by the Competent Authority.
3. At any time prior to the deadline for submission of bids, KCD Peshawar may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.
4. If a bid is not substantially responsive, it will be rejected by the Procuring Entity and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
5. KCD MTI Peshawar may accept or reject any or all of the bids under Rule 47 of KPPRA Rules, 2014

5. BID Security

Bid security Rs-100,000/- in shape of Call Deposit Receipt (CDR) refundable drawn in favor of "DEAN KCD"

The bid security may be forfeited:

- i. If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- ii. In the case of a successful Bidder, if the Bidder fails to sign the contract
- iii. If a successful Bidder unable to supply the items after issuance of 3 reminders, order will be placed to the next lowest bidder.

6. BID VALIDITY:

- i) The bids should be valid for a period of 90 Days.
- ii) In exceptional circumstances, KCD Hospital may solicit the Bidder's consent to an extension of the period of validity reasons shall be recorded in writing. The request and the responses there to shall be made in writing. The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in the bidding document.

7. BID VALIDITY: Rates approved will be valid till 30-06-2024

#	Name of item	Component
1	Windows 10 and Windows 11	Windows 10&11 professional Academic License
2	55" 4K Smart TV (Sony, Samsung,LG,TCL)	OS: Android / Google TV
		Resolution: 3,840 x 2,160
		HDR10+
		HDMI: 3 Warranty: One Year
3	65" 4k Smart Tv (Sony, Samsung,LG,TCL)	OS: Android / Google TV
		Resolution: 3,840 x 2,160
		HDR10+
		HDMI: 3 Warranty: One Year
4	RAM DDR3 4GB	
5	CONVERTORS	DVI-D TO VGA HDMI TO VGA MICRO HDMI TO HDMI Type C to VGA/HDMI D-Port to VGA/HDMI Mini D-Port to VGA/HDMI
6	WIRELESS MIKE (CARD LESS/ WITH STAND)	Branded
7	WIRELESS MOUSE & KEYBOARD	Branded
8	CAMERAS	1) WIRELESS WIDE ANGLE CAMERA FOR VIDEO CONFERENCING 2) DSLR With WIFI and multiple Lenses 30mm 55mm 300mm can be used for broadcasting as well 3) IP Based Security Camera compatible with HIK vision NVR
9	Multimedia Projectors High Quality	Projection System : DLP Resolution :4K UHD (3840×2160) Brightness (ANSI lumens) : 4000 or high Contrast Ratio (FOFO) : 30000:1 Display Color: 1.07 billion colors Native Aspect Ratio : 16:9 Light Source life : A. Normal 4000 hrs, B. ECO 10000 hrs, C. SmartEco 15000 hrs Resolution Support :VGA(640 x 480) to WUXGA_RB(1920 x 1200) Zoom Ratio: 1.3x Speaker: (x2),5W Chamber
10	Multimedia Projector Medium quality	4000 lumens or high Contrast Ratio 12000:1 Resolution : 1280x800

11	Sound system	With universal wireless mics connectivity 4 mics inputs multiple output options Aux supported Speakers Amplifier
12	RAM DDR4 4GB	
13	RAM DDR4 8GB	
14	INTERNAL SSD 128 GB	
15	INTERNAL SSD 256 GB	Branded
16	INTERNAL SSD 500 GB	
17	INTERNAL SSD 1 TB	
18	INTERNAL SSD M2 64 GB	
19	INTERNAL SSD M2 128 GB	
20	INTERNAL SSD M2 256 GB	
21	INTERNAL SSD M2 500 GB	
22	INTERNAL SSD M2 1 TB	
23	INTERNAL HARD DRIVE 1 TB SATA	
24	INTERNAL HARD DRIVE 2 TB SATA	
25	INTERNAL HARD DRIVE 4 TB SATA	
26	External SSD 500 GB branded usbplugable	
27	External SSD 1 TB branded usbplugable	
28	External SSD 2 TB branded usbplugable	
29	External SSD 4 TB branded usbplugable	
30	External SSD 8 TB branded usbplugable	
31	KEYBOARD USB	Branded
32	PCI LAN card	
33	LAN card external	
34	M607 printer replacement display screen	

35	LED 20" INCH VIEW 19.5" WIDE SCREEN	
36	LED 24"	
37	LED 32"	
38	MOUSE USB	Branded
39	PORTABLE HARD DRIVE 2TB	
40	POWER CABLE (2METERS) (2 PIN + 3 PIN)	
41	Male to Female power cable	
42	PRINTER CABLE USB	
43	STICKY MOUSE PADS	
44	USB drive 16 GB	
45	USB drive 32 GB	
46	USB drive 64 GB	
47	USB EXTENSION CABLE (2 METERS)	
48	USB TO RJ-45 CONSOLE CABLE (10 FEET)	
49	USB TO RJ-45 ETHERNET PORT	
50	WINDOWS 2019 STANDARD SERVER ACADAMIC LICENSE	
51	WINDOWS 2021 STANDARD SERVER ACADAMIC LICENSE	
52	8/12 WAY SOCKET PDU (POWER DISCRIBUTION UNIT)	
53	BARCODE READER SUPER LEAD 83MMX 80MMX 147MM MESH/ MULTILINE	
54	Desktop Barcode scanner	
55	EXTENSION BOARDS FOR COMPUTERS STANDARD SIZE 3 WAY SOCKET OR ABOVE	
56	HDMI TO VGA CONVERTER	Branded
57	1 KVA ONLINE UPS	Branded With external battery bank Standard battery backup
58	1 KVA OFFLINE UPS	Branded With internal dry batteries Standard battery backup

59	2 KVA ONLINE UPS	Branded With external battery bank Standard battery backup
60	2 KVA OFFLINE UPS	Branded With internal dry batteries Standard battery backup
61	CPU SECURITY LOCK FOR DESKTOP PC - 4 digit numbering pad	
62	DISPLAY CABLE (HDMI) 10 METER 3D 4K SUPPORT	
63	DISPLAY CABLE (HDMI) 5 METER 3D SUPPORT	
64	DISPLAY CALBE (HDMI) STANDARD SIZE LED TO CUPU 3D SUPPORT	
65	DISPLAY CABLE (VGS) LET TO CPU	
66	6th GENERATION INTEL CORE i7 Processors and board	
67	11 GENERATION INTEL CORE i5 Processors and board	
68	DPORT to DPORT CABLE	
69	DPORT to VGA CABLE	
70	DISPLAYPORT MALE TO FEMALE EXTENSION CABLE	
71	DISPLAYPORT CABLE DP 1.6M MALE TO MALE CABLE	
72	LCD touch screen 24"	
73	10M Active Display Port Cable	
74	RJ45 PCI Wired Network LAN Adapter Card	
75	QR CODE READER with stand	
76	Multimedia speaker for desktop PC	Branded min 15 watt
77	Cable holder organizer 25mm Diameter	
78	Flexible spiral tube cable	
79	Smart cable organizer desktop and workstation cord clips	
80	Power Supply for Corei3, i5 and i7 branded	
81	10M Active Display Port Cable	

82	Plier	
83	Screwdriver set	
84	Needle-nose plier and Screwdrivers	
85	Heavy duty blower	
86	Solder	
87	Sata bay	
88	USB to SSD adapter	
89	Printed PVC Cards for patient registration (double sided)	
90	Display ribbon for HP 607 printer	
91	Pressure roller for Canon 226 printer	
92	Pressure roller for Canon 325 printer	
93	Pressure roller for HP P1102 printer	
94	Pressure roller for HP 102A printer	
95	Pressure roller for HP M400 printer	
96	Pressure roller for HP605 printer	
97	Pressure roller for HP607 printer	
98	USB data port for Canon 226	
99	Lamp for Canon 226 printer	
100	Lamp for Canon 325 printer	
101	Lamp for HP P1102 printer	
102	Lamp for HP 102A printer	
103	Lamp for HP M400 printer	
104	Lamp for HP605 printer	
105	Lamp for HP607 printer	
106	Sleeve for Canon 226 printer	
107	Sleeve for Canon 325 printer	

108	Sleeve for HP P1102 printer	
109	Sleeve for HP 102A printer	
110	Sleeve for HP M400 printer	
111	Sleeve for HP605 printer	
112	Sleeve for HP607 printer	
113	Conferencing Camera	
114	CCTV Cameras 4MP	
115	DGI Drone Mavic-3	
116	DSLR Camera with micro lens ,35mm lens , 55mm lens and 300mm lens	
	Networking Items / Accessories	
117	IO	Branded Cat 6A IO module
118	IO	Branded Cat 6 IO Module
119	Faceplate	Branded Single Shutter/Gang faceplate 1 port
120	Faceplate	Branded Dual Shutter/Gang faceplate 2 port
121	Back box	PVC Back box
122	Cable Joiner	Branded LAN Cable Joiner
123	Cable Roll	Branded Cat6A cable roll (500 Meters)
124	Cable Roll	Branded Cat6 cable roll (305 Meters)
125	Crimping Tool	Branded Multipurpose Network Crimping Tool
126	Stripper	Network Cable Stripper
127	Tag machine	Cable Tag Gun/Tagger, with cartridge/rolls
128	Tag machine cartridge/rolls	Compatible with tag machine provide
129	Connectors	Branded RJ45 connectors for CAT6A cable
130	Connectors	Branded RJ45 connectors for CAT6 cable
131	Rubber Cap	Protective rubber cap for cat6A connectors
132	Rubber Cap	Protective rubber cap for cat6 connectors
133	Patch Panel	Branded Patch Panel loaded with Cat6A IO modules
134	Patch Panel	Branded Patch Panel loaded with cat6 IO modules
135	Cable Manager	Branded cable manager 48 slot 19 inch
136	Cable Tray	Straight section 2"H x 4"W 10 feet length with ceiling mount kit
137	Cable Tray	Straight section 2"H x 6"W 10 feet length with ceiling mount kit
138	Cable Tray	Straight section 2"H x 8"W 10 feet length with ceiling mount kit
139	Cable ties	Cable zip ties small size
140	Cable ties	Cable zip ties large size

141	Console Cable	USB TO RJ45 Serial Console Cable (Single piece)
142	Cabinet	Branded 4U single section wall mounted cabinet 600x600 with 2 Fans and rack mounted PDU
143	Cabinet	Branded 6U single section wall mounted cabinet 600x600 with 2 Fans and rack mounted PDU
144	Cabinet	Branded 12U single section wall mounted cabinet 600x600 with 2 Fans and rack mounted PDU
145	Cabinet	Branded 15U single section wall mounted cabinet 600x600 with 2 Fans and rack mounted PDU
146	Cabinet	22U branded Floor Mounted Standard cabinet with Fans and mounted PDUs
147	Cabinet	42U Branded Rack with dual fans and two side mounted PDUs with KVM
148	Cabinet	42U Branded Rack with dual fans and two side mounted PDUs without KVM
149	PDU	19 inch rack mounted PDU with 8 standard sockets
150	Fiber optic cable	Branded Fiber Optic Cable 12 core Single mode
151	Fiber optic cable	Branded Fiber Optic Cable 24 core Single mode
152	Fiber Patch cord	Fiber Patch Cord(SC-LC) Single Mode 3 Meters length
153	Fiber Patch cord	Fiber Patch Cord(SC-LC) Single Mode 5 Meters length
154	Fiber Patch cord	Fiber Patch Cord(LC-LC) Single Mode 3 Meters length
155	Fiber Patch cord	Fiber Patch Cord(LC-LC) Single Mode 5 Meters length
156	Fiber Patch cord	Fiber Patch cord(SC-SC) Single Mode 3 Meters length
157	Fiber ODF	Branded 16 Port with Single mode pigtails and couplers
158	Fiber ODF	Branded 24 Port with Single mode pigtails and couplers
159	Nails	1 inch steel nails box
160	Nails	1.5 inch steel nails box
161	Nails	2 inch steel nails box
162	Flexible Pipe	1 inch (1 bundle = 150 Feet length)
163	Flexible Pipe	1.5 inch (1 bundle = 100 Feet length)
164	Flexible Pipe	3/4 inch (1 bundle = 150 Feet length)
165	Flexible Pipe	2 inch (1 bundle = 100 Feet length)
166	PVC Pipe	1 inch (One length = 10 Feet with 3 steel clips)
167	PVC Pipe	1.5 inch (One Length = 10 Feet, with 3 steel clips)
168	PVC Pipe	2 inch (One Length = 10 Feet) with 3 steel clips)
169	Duct	PVC duct size 16x25 10 feet each length
170	Duct	PVC duct size 16x38 10 feet each length
171	Duct	PVC duct size 40x40 10 feet each length

172	Duct	PVC duct size 60x60 10 feet each length
173	Screws	1 inch black screws with rowel plug box
174	Screws	1.5 inch black screws with rowel plug box
175	Screws	2 inch black screws with rowel plug box
176	Drill Machine	Cordless driver drill machine small size with complete accessories
177	Drill Machine	Heavy duty cordless driver drill machine large size with batteries and charger.
178	Drill Machine	Industrial drill machine with LT set
179	Screw Driver	Cordless screw driver with complete set
180	Cage Nuts	High quality cage nuts for Server/switches racks
181	Fiber Splicing	Single mode fiber splicing (per core)
182	Fiber Cable laying	Fiber optic cable lying charge (Per meter)
183	Cat6 Patch Cord	Cat6 Branded Patch Cord 1 Meter
184	Cat6 Patch Cord	Cat6 Branded Patch Cord 3 Meter
185	Cat6 Patch Cord	Cat6 Branded Patch Cord 5 Meter
186	Network Cable Tester/Scanner	Branded Network Cable tester with scanner
187	Batteries for Network Cable Tester/Scanner	Batteries set compatible with Network cable tester quoted

Mandatory Documents for the below quoted items (failing to any of below will lead to disqualification)		
	Bidder must be Authorized Dealer of the Manufacturer for the quoted items and must provide a certificate	Mandatory
	Sales Tax Registration Certificate	Mandatory
	NTN Registration Certificate	Mandatory
	Registration with Khyber Pakhtunkhwa Revenue Authority	Mandatory
	Most recent Sales Tax Return from FBR last one year	Mandatory
	Income Tax Returns of last one year	Mandatory
	Bank Statement of the Firm Last 1 years	Mandatory
	At least 3 purchase orders for the quoted items	Mandatory

IT Related Equipment and Computer Accessories 2022-23		
1	International Branded Desktop Computers Core-i7	10 th Gen Intel Core i7-10700 8GB DDR4 Memory (1x8GB) Storage: 512GB high speed SSD Drive Graphics: Integrated Graphics (Supports PAC's DICOM images) Wireless: Wireless Card + Bluetooth Speaker USB Keyboard, USB Mouse 24" LED Monitor HDMI, VGA, DP Ports Warranty: 03 Years comprehensive warranty including parts and Onsite support
2	International Branded Desktop Computers Core-i5	10 th Gen Intel Core i5-10500 (1 x 8 GB) 8GB DDR4 Memory Storage: 512GB high speed SSD Drive Graphics: Integrated Graphics (Supports PAC's DICOM images) Wireless: Wireless Card + Bluetooth +Speaker USB Keyboard, USB Mouse 24" LED Monitor HDMI, VGA, DP Ports Warranty: 03 Years comprehensive warranty including parts and Onsite support

3	International Branded Desktop Computers Core-i3	10 th Gen Intel Core i3-10500 (1 x 8 GB) 8GB DDR4 Memory Storage: 512GB high speed SSD Drive Graphics: Integrated Graphics (Supports PAC's DICOM images) Wireless: Wireless Card + Bluetooth +Speaker USB Keyboard, USB Mouse 24" LED Monitor HDMI, VGA, DP Ports Warranty: 03 Years comprehensive warranty including parts and Onsite support
4	International Branded Core i7 Laptop	Intel Core i7-10510U 1x16 GB DDR4 Memory 1TB or above High-speed Solid-State Drive No Optical Drive 13.3" FHD 1920x1080 Display, Multi Touch 720p HD Camera, Intel UHD Graphics, Intel 9560 ac Wireless + Bluetooth, Backlit Keyboard 4 Cell Li-Pol 60Wh Battery Carry Case: Standard according to size Windows 10 Professional Warranty: 03 Years comprehensive warranty including parts and Onsite support
5	Light Duty Printer Laser Printer	Print speed: Up to 38 ppm Print resolution (dpi): 600 x 600 Print quality: Up to 1200 x 1200 dpi Memory: 512 MB or Higher Monthly Duty Cycle: 80,000 Pages Wireless Connectivity Additional toner price should be quoted separately Warranty: 01 Year comprehensive warranty including parts and Onsite support
6	Medium Duty Printer Laser Printer	Print speed: Up to 43 ppm (A4) Print resolution (dpi): 600 x 600 Print quality: Up to 1200 x 1200 dpi Memory: 1GB or higher Monthly Duty Cycle: 125,000 Pages Wireless Connectivity (Optional) Additional toner price should be quoted separately Warranty: 01 Year comprehensive warranty including parts and Onsite support

7	Laser Jet Heavy Duty Printer	Print Speed: Up to 55 ppm Print Resolution: 600x600 DPI Print Quality: 1200x1200 DP Standard Memory: 1GB or higher Processor 750 or higher Wireless Connectivity (Optional) Additional toner price should be quoted separately Warranty: 01 Year comprehensive warranty including parts and Onsite support
8	Antivirus solution	Antivirus solution for 500 pc's further extendable. Academic license
9	3 in 1 printer	Print, Scan, Copy with ADF Printer speed: 38 ppm Scan speed: upto 38 ppm WiFi connectivity Network connectivity Additional Toner Price should be quoted separately Warranty: 01 Year comprehensive warranty including parts and Onsite support
10	Color LaserJet printer	Print Speed: Upto 38 ppm Print Resolution(dpi): 600x600 Wireless connectivity enabled Additional Toner Price should be quoted separately Warranty: 01 Year comprehensive warranty including parts and Onsite support
11	Heavy Duty Photocopier	Speed upto 80-Copies per minute speed Single/Dual Component TPD System Printing Resolution 1200 x 1200 dpi Memory 4 GB or higher 999 Continuous Copying or higher Digital Memory Sorting Max. Copy Size A-3 Built In Duplex Copying & Printing Built In Network Color Scanner A3 Size Built In Network Printer A3 Size Built in send feature (Scan to email) Built in DADF Trolley Warranty: One Year Warranty and availability of parts in market. Additional toner price should be quoted separately

12	Medium Duty Photocopier	<p>Speed 45-Copies per minute speed Printing Resolution 1200 x 1200 dpi RAM 2 GB or higher Paper Support 550+550 Sheets 50 Sheet stack by pass 999 Continuous Copying or higher Digital Memory Sorting Max. Copy Size A-3 Built In Duplex Copying & Printing Built In Network Color Scanner A3 Size Built In Network Printer A3 Size Built in send feature (Scan to email) Built in DADF Trolley Additional toner price should be quoted separately Warranty: One Year Warranty and availability of parts in market.</p>
13	Light Duty Photocopier	<p>Speed 18-Copies per minute speed Single/Dual Component TPD System Printing Resolution 600 x 400 dpi Memory 64 MB or higher Paper Support 200 or Higher 50 Sheet stack by pass 999 Continuous Copying Digital Memory Sorting Max. Copy Size A-3 Built In Duplex Copying & Printing Zoom Range 25%-400% Built In Network Color Scanner A3 Size Built In Network Printer A3 Size Built in send feature (Scan to email) Built in DADF Trolley Additional toner price should be quoted separately Warranty: One Year Warranty and availability of parts in market.</p>
14	Server for Information Library System	<p>Intel Xeon Processor W-2223 (4C 3.6Ghz 3.9GHz Turbo HT 8.25MB 120W DDR4-2666) or Higher Precision 5820 Tower 950W PCIe Flex Chassis CL Slim ODD bezel, 100% tie with slim ODD 16GB (2x8) DDR4 2933 MHz RDIMM ECC Memory M.2 Carrier, M.2 512GB PCIe NVMe Class 40 Solid state drive 1 TB SATA 3.4inch 7.2K RPM Hard Drive 8 x DVD-Rom 9.5mm Optical Disk Drive NVIDA Quadro P1000, 4GB, 4 mDP to DP adaptor (5820T) Integrated NIC included, wired mouse black, wired keyboard KB216 English</p>

15	Firewall	<p>Firewall Throughput: 5 Gbps or more</p> <p>NGFW Throughput: 2 Gbps or more</p> <p>WAF Throughput: 2 Gbps or more</p> <p>Concurrent Connections (TCP): 1,800,000 or more</p> <p>New Connections (TCP): 50,000 or more</p> <p>IPSec and SSL VPN</p> <p>URL Filtering</p> <p>Bandwidth Management</p> <p>RAM 4 Gb or more HD Capacity: 64 GB SSD or more Interfaces:</p> <p>At least 4x10/100/1000 Base-T</p> <p>At least 2x1G SFP</p> <p>License :3 years of fully functional license with all features enabled</p>
16	Core/Distribution Switch	<p>General Specification:</p> <ul style="list-style-type: none"> - 24 x 1/10G SFP+ Ports - Switching capacity: 2 Tbp or higher - Port Switching Capacity: 700 Gbps or higher - Forwarding rate: 500 Mpps or higher <p>Layer 2 Features</p> <ul style="list-style-type: none"> - Support more than 32K MAC address tables - STP/RSTP/PVST+/RPVST+ - Port based VLAN upto 4K Vlans - Voice VLAN - Port Aggregation <p>Layer 3 Features</p> <ul style="list-style-type: none"> - IPV4/IPV6 Static routing - Dynamic Routing RIP v1/2, RIPng, Policy Routing, OSPF v1/2/3, BGP <p>ARP</p>

		<ul style="list-style-type: none"> - 16K ARP entries or more - Dynamic ARP inspection - ARP Anti-attack - ARP Flood suppression - ARP Source suppression <p>DHCP</p> <ul style="list-style-type: none"> - DHCP/DHCPv6 Client - DHCP/DHCPv6 Snooping - DHCP/DHCPv6 Relay - DHCP/DHCPv6 Server - DHCP Snooping Option 82 and IP/MAC Static binding entries <p>MPLS</p> <p>Login through Telnet, SSH and Console Port</p>
17	Access Switch	<p>General Specification:</p> <ul style="list-style-type: none"> - 24 x 10/100/1000Base-T Ethernet POE+ Ports - 4x1/10G SFP+ Ports - Switching capacity: 300 Gbps or higher - Port Switching Capacity: 100 Gbps or higher - Forwarding rate: 90 Mpps or higher <p>Layer 2 Features</p> <ul style="list-style-type: none"> - Support more than 32K MAC address tables - STP/RSTP/PVST+/RPVST+ - Port based VLAN upto 4K Vlans <p>Security Features</p> <ul style="list-style-type: none"> - User management and password protection - Port Isolation - Port Security <p>Layer 3 Features</p> <ul style="list-style-type: none"> - IPV4/IPV6 Static routing - Dynamic Routing RIP v1/2, RIPng, Policy Routing, OSPF v1/2/3, BGP <p>ARP</p> <ul style="list-style-type: none"> - 16K ARP entries or more

		<ul style="list-style-type: none"> - Dynamic ARP inspection - ARP Anti-attack - ARP Flood suppression - ARP Source suppression <p>DHCP</p> <ul style="list-style-type: none"> - DHCP/DHCPv6 Client - DHCP/DHCPv6 Snooping - DHCP/DHCPv6 Relay - DHCP/DHCPv6 Server - DHCP Snooping Option 82 and IP/MAC Static binding entries MPLS <p>Login through Telnet, SSH and Console Port</p>
18	WLAN Controller	<p>General Specification:</p> <ul style="list-style-type: none"> - Must include License to manage 160 access points. - Must be capable of managing at least 250 APs for future expandability <p>Wireless Throughput: 2 Gbps or Higher Interfaces:</p> <ul style="list-style-type: none"> - 2xGE WAN Ports or more - 2xGE SFP ports or more <p>Features</p> <ul style="list-style-type: none"> - 802.11 protocols - 11G protection - VLAN based wireless users 2-layer isolation - SSID Based wireless user 2-layer isolation - Inter AP L2 and L3 roaming - Open system, shared key - WEP-64/128 dynamic WEP - Portal authentication, local and LDAP authentication - Guest Access Control - Layer 2 protocol 802.1p, 802.1q, 802.x - RF Ping, RealTime Spectrum Guard
19	Wave-2 Controller Based Access Points	<p>General Specification:</p> <ul style="list-style-type: none"> - Enterprise Class Dual Radio Access Point IEEE 802.11a/b/g/n/ac wave2 <p>Throughput</p> <ul style="list-style-type: none"> - Support minimum data rates of 800Mbps in the 5GHz band and 400Mbps in the 2.4GHz band

		<p>Interfaces</p> <ul style="list-style-type: none"> - Minimum 2 x Network interface: 2GE Base-T, Power - Compatible with 802.3af/802.3at power supply <p>MIMO</p> <ul style="list-style-type: none"> - 2 x 2 MIMO with up to 2 Spatial Streams in 5GHz band and 2 x 2 MIMO with up to 2 Spatial Streams in 2.4GHz band Features - Support 256 associated client devices per radio - Support WEP-64/128, dynamic WEP, WPA, WPA2, TKIP, CCMP encryption - Support Wireless Intelligent Application Aware (wIAA), wIDS/wIPS, 802.11w, discover and suppress counterfeit APs based on SSID - Support IPv4 / IPv6 dual native protocol stack, support IPv6 Portal, IPv6 SAVI - Support different SSID/VLAN mapping different QoS policies - Support user amount and traffic load balance - Supports user isolation between Layer 2 forwarding suppression and virtual AP (multiple SSID) - Support Remote probe analysis - Support WEB, SNMP v1/v2/v3, RMON management & configuration
20	SFP Transceiver	<p>SFP 1Gig Single mode optical/LX Transceiver</p> <p>Wavelength1310 nm</p> <p>Max Distance2-20 km</p> <p>Transmitter Power-9 ~ -3 dBm</p> <p>Receiver Sensitivity< -22 dBm</p> <p>ConnectorDuplex LC</p>
21	SFP Transceiver	<p>SFP 10Gig Single mode optical/LX Transceiver</p> <p>Wavelength1310 nm</p> <p>Max Distance2-20 km</p> <p>Transmitter Power-9 ~ -3 dBm</p> <p>Receiver Sensitivity< -22 dBm</p> <p>ConnectorDuplex LC</p>

22	Online UPS with Battery Storage Unite	<p>Power (kVA)5 kVA</p> <p>Power (kWatt)8 kWatt</p> <p>INPUT - RECTIFIER</p> <p>Input Voltage380 / 400 / 415 VAC ; 3 Single Phase</p> <p>Input Voltage Range± 15%</p> <p>Input Frequency50 / 60 Hz</p> <p>Input Frequency Range± 10%</p> <p>Input Power Factor> 0,85</p> <p>OUTOUT - INVERTER & BY-PASS</p> <p>Output Power Factor0,8</p> <p>Output Voltage380 / 400 / 415 VAC ; 3 Output</p> <p>Voltage Regulation± 1% (Static) ; ± 5% (Dynamic)</p> <p>Output Frequency50 Hz / 60 Hz (selectable) Frequency</p> <p>Stability± 0,1% (operation by battery) ; ± 1% (main synchron)</p> <p>Battery storage/ installation unit, maintenance free batteries, 5-6 hours backup capacity</p>
23	Switch	<p>General Specification:</p> <ul style="list-style-type: none"> - 24 x 10/100/1000Base-T Ethernet POE+ Ports - 2 x 1G SFP Ports <p>Layer 2 Features</p> <ul style="list-style-type: none"> - Support 16K MAC address tables or more - STP/RSTP/PVST+/RPVST+ - Port based VLAN upto 4K Vlans <p>Security Features</p> <ul style="list-style-type: none"> - User management and password protection - Port Isolation - Port Security <p>Layer 3 Features</p> <ul style="list-style-type: none"> - IPV4/IPV6 Static routing

		<p>DHCP</p> <ul style="list-style-type: none"> - DHCP Client - DHCP Snooping - DHCP Relay - DHCP Server
24	Switch	<ul style="list-style-type: none"> - 16 x 10/100/1000Base-T Ethernet POE+ Ports - 2 x 1G SFP Ports - Port based VLAN upto 4k Vlans - User Management and password protection - Port isolation - Port security - DHCP snooping
25	Access Point	<ul style="list-style-type: none"> - Internal antenna - Ceiling/wall mount kit - Simultaneous Dual Band 2.4+5 GHz - 2.4 GHz Radio Rate: 450 Mbps or more - 5 GHz Radio Rate: 1300 Mbps or more - Integrated POE+ port with external adaptor - Multiple SSID Support (minimum 8) -SSID to VLAN Mapping - Wi-Fi Standards: 802.11 a/b/g/n/ac - Concurrent Clients: 200+ - Captive Portal - Web management interface - DHCP
26	Wireless Bridge	<ul style="list-style-type: none"> - Outdoor Point to Point Wireless Bridge (Pair) - At least 1 GbE with POE++ - Capable of providing point-to-point connectivity for ariel distance of at least 500 Meters or above - Frequency: Minimum 5GHz - Throughput rate: 800 Mbps or above - Waterproof and rust proof - Pole Mountable, (Pole must be included in the package) - Wi-Fi Standards: 802.11 ac

27	Online UPS 2KVA for Circulation Desk	True Online double conversion Input power factor correction 0.99 Output power factor 0.9 50/60 Hz frequency converter mode Programmable power management outlets High overload capability and enhanced short circuit protection
28	Online UPS 3KVA for Self-Check Station & RFID Gate	True Online double conversion Input power factor correction 0.99 Output power factor 0.9 50/60 Hz frequency converter mode Programmable power management outlets High overload capability and enhanced short circuit protection
29	Online UPS, 3 KVA, (External dry battery with minimum 2 hours backup)	Branded 3 KVA UPS with External battery bank having minimum 2 hours backup on 90% load
30	Online UPS 5KVA, (External dry battery with minimum 2 hours backup)	Branded 5 KVA UPS with External battery bank having minimum 2 hours backup on 90% load
31	Online UPS 10KVA, (External dry battery with minimum 2 hours backup)	Branded 10 KVA UPS with External battery bank having minimum 2 hours backup on 90% load