NETWORK AND I.T EQUIPMENT FAISALABAD INSTITUTE OF CARDIOLOGY, FAISALABAD.

Sr. No.	Items	Specifications	Quantity
1	Access Switch 24 Port and 2 SFP Ports	24 x10/100/1000Base-T Ethernet and 4 X Gigabit RJ45/SFP Combo Ports with 2 single mode SFP modules Advanced L2 switching and security features L2+ Static Routing, Auto MDI/MDIX Switching Capacity 56Gbps or Higher Max Packet Forwarding Rate 41.7 Mbps or higher 8K MAC Addresses Table Size Support STP, RSTP, MSTP, Root Restriction, Link Aggregation, Port Mirroring, IGMP Snooping, Port Based VLAN, ARP, Static Routes, SSH/SSL, SNMP/DHCP, Web Based GUI (One) Year Parts and Labor warranty on site.	05
2	Access Switch PoE/PoE+ 16 Ports and 2 SFP Ports)	16 x10/100/1000Base-T PoE RJ45 Ports and 2 X Gigabit RJ45/SFP Combo Ports with 2 single mode SFP modules Switching Capacity 36 Gbps or Higher Max Packet Forwarding Rate 26.8 Mbps or higher PoE Power Budget 150W or higher 8K MAC Addresses Table Size 4K VLAN, DHCP Snooping, STP, MSTP, RSTP Spanning Tree, ACL, PoE Management, QoS, Web Management (One) Year Parts and Labor warranty on site.	02
3	Access Switch PoE/PoE+ 48 Ports and 4 SFP Ports)	48 x10/100/1000Base-T RJ45 PoE Ports and 4 X Gigabit RJ45/SFP Combo Ports with 2 single mode SFP modules 370W or higher PoE Power Budget Advanced L2 switching and security features L2+ Static Routing, Auto MDI/MDIX Switching Capacity 104Gbps or Higher Max Packet Forwarding Rate 77.4 Mbps or higher 16K MAC Addresses Table Size Support STP, RSTP, MSTP, Root Restriction, Link Aggregation, Port Mirroring, IGMP Snooping, Port Based VLAN, ARP, Static Routes, SSH/SSL, SNMP/DHCP, Web Based GUI (One) Year Parts and Labor warranty on site.	03
4	Core Switch 24 Ports, and 4 SFP Ports	24 x10/100/1000Base-T PoE RJ45 Ports 2 x 10G BASE-T Ports 4 x 10G SFP+ Ports with 4 Single Mode SFP Modules Switching Capacity 168Gbps or Higher Packet Forwarding Rate 125Mbps or Higher Premium L2 and L3 features RIP/RIPng and OSFPv2/v3 dynamically maps Stackable 16K MAC Address Table Size 4K or Higher VLAN Support STP, RSTP, MSTP, Root Restriction, Link Aggregation, Port Mirroring, IGMP Snooping, Port Based VLAN, ARP, Static Routes, SSH/SSL, SNMP/DHCP, Web Based GUI	01
5	UPS 1KVA for Cabinets	(One) Year Parts and Labor warranty on site. 1 KVA with dry batteries, Surge Protection, Processor Control, at least 6 minutes' backup time or higher on 70% load, Alarm, Power Factor 0.6 or higher, 6-8 hours' recharge time, with other standard features. 1(One) Year Parts and Labor warranty onsite.	11





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		Firewall with NGFW features	
		1 × Console port	
		1 x USB Port	
1		4 XGE WAN Ports	
		1 X GE DMZ Port	0.1
6	Firewall	5 x GE RJ45 Internal Ports	01
		Firewall Should have	
		1.4 Gbps or higher IPS Throughput	
		1 Gbps or Higher Throughput	
		700 Mbps or Higher Threat Protection Throughput	
		IPsec VPN, SSL VPN, 700K or higher Concurrent Session, 200 or higher	
		SSL VPN Users, 30000 or higher New Session, SSL Inspection, Application	
		Control, Virtual Domains	
		1 Year Unified Threat Protection (UTP) (IPS, Advanced Malware	
		Protection, Application Control, URL, DNS & Video Filtering,	
		Anti spam Service,	
		Note:1-Years NBD Warranty & 1-Years UTM Subscription	

	Passive Equipment				
Sr. No.	Item Description	Quantity			
7	Duct16*25 (10Ft Per Length) Brand (Adamjee/Popular/equivalent)	APA			
8	Duct16*38 (10Ft Per Length) Brand (Adamjee/Popular/equivalent)	APA			
9	Duct40*40 (10Ft Per Length) Brand (Adamjee/Popular/equivalent)	APA			
10	PVC Flexible/Hardpipe1"with clamps etc. (150feetRoll)	APA			
11	PVC Flexible/Hardpipe1-1/2to2"with clamps etc. (150feet Roll)	APA			
12	Data Cabinet 6U, having exhaust fan, glass door and key	11			
13	UTP Cat6 cable Roll (305m), 4pair (23AWGor better) (fluke test pass)(roll)U S A / European/JAPAN Brand only	APA			
14	Face Plates (with single shutter and loaded with single Gigabit Ethernet supported Tool Less I/O, support for 23AWGor better) Cat 6 supported—USA/European/JAPAN Brand Only	250			
15	Back Box	250			
16	UTP 16-Port Patch Panel complete loaded with Cat6 I/Os, Modular with rear cable Management Tray and ports.U S A / European/JAPAN Brand Only	2			
17	UTP 24-Port Patch Panel complete loaded with Cat6 I/Os, Modular with rear cable Management Tray - U S A / European/JAPAN Brand Only	6			
18	UTP 48-Port Patch Panel complete loaded with Cat6 I/Os, Modular with rear cable Management Tray - EUROPEAN Brand Only	3			
19	1URackmount Front Cable Organizer	11			
20	Company fabricated 1M UTP Patch Cord, Gigabit Ethernet CAT6 supportedUSA/European/JAPAN Brand Only	250			
21	UTP Cable Laying & Termination (Per Running Feet): Network cabling including labor for ducting, Ethernet cabling, cable punching, I/O fixing. (Bandwidth to be provided by the client while configuration)	APA			
22	Power cabling (7/29) from nearest power source (power source to be provided by the purchaser, client) till the network distribution points. Cable must of top market brand, vendor must mention brand. (per RFT).	APA			
23	Electrical Back box with universal power socket	11			
24	Fiber Optic Cable 6 core (per meter) (Single Mode)	APA			
25	Fiber Pigtail	APA			
26	Fiber Splicing	APA			



27	ODF (6 Ports)	
28	Fiber Patch Cord (1m)	APA
29		APA
	Installation, configuration & end to end testing of complete network (complete Job on Lump sum basis):	1 Job
30	Fiber Cable Laying (Per meter)	APA
		ALA

Vendor will be responsible to:

- · One year warranty of passive equipment.
- Provide fluke testing report of the network after completion.
- Bidder should submit Manufacturing Authorization Letter from principal of the product for serial no 1 to 4, 6 and 13,14, 16 to 20.
- · Provide network design diagrams, IP Details Document, basic configuration document.
- All fiber related equipment including, Patch Chords, Connecting Cables, Management Enclosures will be deployed according to the design.

Note:

The payment to the Contractor against "Passive Networking" will be made as per actual numbers/measurements; After the installation, deployment & commissioning of equipment, and approval of inspection report by the Purchaser Financial Proposal will be considered as complete package of the all equipment instead of individual item

Medical Superintendent
Faisalabad Institute of Cardiology,
Faisalabad,