



DIRECTORATE OF SCIENCE & TECHNOLOGY
GOVERNMENT OF KHYBER PAKHTUNKHWA



**PROVISION OF HARDWARE
AND ESTABLISHMENT OF
FIBER OPTIC NETWORK
WITH ALLIED EQUIPMENT
FOR MARDAN MEDICAL
COMPLEX**

**BID
SOLICITATION
DOCUMENT**

TURNKEY BASIS

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.

(Total number of pages including this page is 29)

TABLE OF CONTENTS

S #	Contents	Page #
1.	Introduction	3
2.	Instruction To Bidders	3
3.	Eligibility Criteria	5
4.	General Conditions	6
5.	Invitation For Bids	7
6.	Bid Security	8
7.	Bid Validity	8
8.	Statement of Requirement with Specification	9
9.	Special Conditions of the Contract	18
10.	Evaluation Criteria	18
11.	Award of Contract	19
12.	Payment	21
13.	Bid Forms	23
14.	Contract Forms	24

INTRODUCTION:

Directorate of Science & Technology (DoST) invites Item wise sealed bids from the eligible bidders (Manufacturers/ Importers/Authorized Dealers) for Medical Teaching Institution (MTI)/ Mardan Medical Complex Teaching Hospital (MMCTH) MARDAN for Provision of Hardware and Establishment of Fiber Optic Network with allied equipment under the project titled as “IT Support for Improvement of Health Services Delivery in Khyber Pakhtunkhwa” through Open Competitive Bidding under rule 6(2) (b) **“Single Stage Two 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. Both Technical Bids and Financial Bids must be submitted in two separate sealed inner envelopes marked “1-Technical Bids” and “2-Financial Bids” which should be packed in one outer envelope.
3. The technical bids will be opened on 11-12-2018 (Tuesday) at 11:00 AM in presence of the bidders/representatives who choose to attend while the financial bids will be opened later on after the evaluation of technical bids. Financial bids of only technically qualified responsive bidders will be opened while the financial bids of technically unqualified bidders will be returned unopened.
4. An affidavit is mandatory, without indicating the figure in the Technical Bid that bid security is placed in the financial bid.
5. Pre-bid meeting with the interested bidders will be held on 28-11-2018(Wednesday) at 11:00 AM in Conference Room of the Directorate of Science & Technology situated at TF-210, Third Floor, Deans Trade Center, Islamia Road, Peshawar Saddar. However, site visit may be planned in consultation with Mr. Mohsin Manager – IT at Mardan Medical Complex.
6. Any bid received after the deadline for submission of bids shall not be entertained and shall be returned unopened to the Bidder.
7. All the bidders are required to provide annexure wise complete requisite documents with page marking for their Technical Evaluation / Qualification as prescribed under the rules.
8. The bid should be complete in all respect and must be hard binded, signed by the bidder.

9. 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.
10. Bidders are essentially required to provide correct and latest postal/email/web addresses, phone/mobile/fax numbers for actively and timely communication.
11. 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.
12. 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.
13. The bidder must attach the original receipt along with the bidding document submitted to this institution. In case of photocopy, bank draft of equal amount must be attached.
14. 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 tender document and the bid is unsigned;
 - d. The offer is ambiguous;
 - e. The offer is conditional i.e. advance payment, or currency fluctuations etc.
 - f. The offer is from blacklisted firm in any Federal / Provincial Govt. Dept.:
 - g. Hand written bids shall NOT be accepted, it must be typed.
15. Usage of correction fluid & corrections are strictly prohibited unless duly initiated.
16. Any erasing / cutting etc. appearing on the offer, must be properly signed by the person signing the tender.
17. The Bidder shall sign and stamp the Integrity Pact provided in this document for all Provincial Government procurement contracts exceeding Rupees ten million. Failure to such Integrity Pact shall make the bidder non-responsive
18. Bids will be rejected if the Bid is in some way connected with bids submitted under names different from his own.
19. In case of Bid Tie, the contract will be awarded to the firm whose technical marks are high.
20. 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 MMC'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 which may be verified from concern organization and authorities.

1. Manufacturers/ Importers/Authorized Dealers for procurement of IT/Network Equipment
2. The bidder must be registered with Income / Sales Tax Department, reflected as Active Tax Payer on the list of FBR.
3. The bidder must be registered with Khyber Pakhtunkhwa Revenue Authority.
4. Bidders having minimum 5 (Five) years of relevant experience for supply and installation of the desired/quoted equipment from the date of incorporation of the company / registration of the firm shall be eligible to participate.
5. In case of the Importers/Authorized Dealers, the firm will ensure that the items are acquired from the original manufacturer and are procured through proper channel as advised by the original manufacturer. The bidder should have relevant certified after sales support resources.
6. The bidder must be Tier-1 partner with the relevant OEM/Principal for major IT equipments (Servers, Desktop Computers, UPS, Printer, SAN Storage, Network Switches, Firewall, Wi-Fi Controller, Wireless Access Points, Printer for Patient Registration Card).
7. The bidder should have positive financial turn-over for the last 03 years equivalent to PKR 100 Million or above.
8. Manufacturer Authorization Letter from the OEM is a MUST for IT equipment.
9. The bidder shall provide an undertaking that the bidder has not been declared black listed by any Governmental/ Semi-Governmental institutions.
10. *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. GENERAL CONDITIONS:-

1. DoST shall evaluate the proposal 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. DoST may increase or decrease the quantity of the items required, as per KPPRA rules.
4. At any time prior to the deadline for submission of bids, DoST 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.
5. 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.
6. DoST may accept or reject any or all of the bids under Rule 47 of KPPRA Rules, 2014.



Directorate of Science & Technology
Khyber Pakhtunkhwa, TF 204
Deans Trade Center

Phone: 091-9211789

NOTICE INVITING TENDER

The Directorate of Science & Technology Khyber Pakhtunkhwa has initiated the project titled as "IT Support for Improvement of Health Services Delivery, Khyber Pakhtunkhwa" for implementation of Hospital Management Information System (HMIS) by providing Hardware and Network infrastructure to MTI, Mardan Medical Complex, Mardan.

1. The Directorate of Science & Technology invites sealed bids under rule 6(2)(b) "Single Stage Two Envelope Procedure on TURNKEY BASIS" of KPPRA Rules 2014, from eligible bidders for the supply of Hardware Items and Network (Fiber & Ethernet), Networking equipment for Mardan Medical Complex Mardan with the following basic eligibility criteria.
 - i. Bidder should be registered with Income/Sales department reflected on Active Tax payer List of FBR.
 - ii. Bidder should be registered with Khyber Pakhtunkhwa Revenue Authority (KPRA).
 - iii. Bidder should have at least Five (05) years relevant experience in provision of Hardware, establishment of Fiber Optic Backbone with Ethernet Access Network & Allied Network Equipment.
 - iv. Bidder should not have been blacklisted by any of the Provincial / Federal Government or organizations of the state / Federal Government of Pakistan.
2. Bid Solicitation Documents containing detailed description and quantities, may be obtained from the office of Director, Directorate of S&T, TF 204 Deans Trade Center Peshawar through a written application between 09:00 AM - 05:00 PM on any working day (Monday to Friday) from the date of publication of this advertisement in the newspaper till last date for submission of bids.
3. The bidders are required to submit bid security @ 2% of the quoted price in shape of Call Deposit Receipt (CDR) in the name of undersigned, Directorate of S&T Khyber Pakhtunkhwa. An affidavit is mandatory in the technical bid (without indicating the figure) that bid security is placed in the financial bid. Pre-bid meeting with the interested bidders will be held on 28-11-2018 (Wednesday) at 11:00AM at the address given below.
4. The bids complete in all respect must reach the undersigned by 11:00AM on 11-12-2018 (Tuesday). Only Technical bids will be opened at 11:00AM on the same day in conference room of the Directorate of S&T in the presence of the procurement committee and the bidders / representatives who may choose to attend.
5. The advertisement and bidding documents are also available on procuring entity website www.dost.kp.gov.pk and KPPRA website i.e www.kppra.gov.pk
6. Competent Authority reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Rules 2014.

Project Director
Directorate of Science & Technology
Government of Khyber Pakhtunkhwa
TF-204-210, 3rd Floor, Deans Trade Centre, Peshawar
Phone: No. 091-9212254, 9212881
URL: www.dost.kp.gov.pk

4. BID SECURITY

- a. Bid security @ 02% of the quoted value in shape of Call Deposit / Bank Draft (refundable) drawn in favor of “Director, Directorate of Science & Technology, Government of Khyber Pakhtunkhwa” should be kept sealed in the financial proposal. An affidavit is mandatory without indicating the figure in the technical bid that bid security is placed in the financial proposal.
- b. Bid security of the successful bidder will be released after submission of Performance Guarantee.
- c. 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 or To furnish performance Guarantee.

5. BID VALIDITY:

- i) The bids should be valid for a period of Ninety (90) Days from the date of opening.
- ii) In exceptional circumstances, DoST may solicit the Bidder’s consent to an extension of the period of validity. 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.

Statement of Requirements along with Specifications

Technical Specifications

(I) HARDWARE EQUIPMENT

Important Note:

- All hardware brands must be international standards.
- Renowned Brands only.
- No refurbish local or from region neither express configuration servers will be accepted, with parts locally installed with local SLA.
- Equipment serial numbers should be verifiable online on OEM site.
- All Hardware should be three years warranty.
- All the Hardware Equipment will be installed at Mardan Medical Complex, Mardan with complete installation and configuration as per requirement of the Technical Staff of MMC.

S.No	Hardware	Quantity	Specification
01	Rack Mount Servers (NOC Operations & Management)	02	<p>Servers – Technical Specifications (Rack Mount – 2U)</p> <p>Note: - Renowned Brands only. No refurbish local or from region neither express configuration servers will be accepted, with parts locally installed with local SLA. Equipment serial numbers should be verifiable online on OEM site.</p> <p>Device farm factor : Must be Dual Processor rack mount Server (2U)</p> <p>Processor: 2 x Intel® Xeon 2.1GHz or above, 14C, equivalent or higher with Intel Chipset Motherboard</p> <p>Memory: 256 GB (8x32 GB) DDR4 Registered Smart memory</p> <p>Hard Disk Drive: 4 X 600 GB SAS, 15K rpm, 12Gb/s or higher Hot Swappable</p> <p>RAID Controller: RAID controller card, 12Gb/s, 2G cache, support RAID 0,1,5,6 Low profile or equivalent or higher.</p> <p>Remote Management: Enterprise Remote Management with dedicated NIC Card.</p> <p>I/O Expansion: Support PCIe card, Riser ports.</p> <p>Network Daughter Card: 2 Port 10Gb Optics/SFP+ (with SR SFP), + 2 Port 1Gb Base-T or equivalent or higher.</p> <p>Power Supply: Redundant hot-swappable dual unit equivalent or higher Power Supply Unit in full configuration.</p>

			<p>Fan Module: Fully configured hot-swappable fan modules, supporting single-fan failures, maintenance without the need for opening the chassis cover.</p> <p>Compatibility: Supports mainstream operating systems/Hypervisors, such as Windows, Redhat Linux, SuSE Linux, VMware and Citrix XenServer</p> <p>Warranty: 03 Years warranty including parts and Onsite support</p>
02	42U Rack	01	<p>Server rack cabinet, 42 U. 42U Rack Standard Airflow Front Door with Lock Wheels with Lock KVM Console switch along with minimum 8 KVM ports Redundant Intelligent PDUs 32 Amp (7.3kVA) 1U Universal Filler Panel LCD Console with keyboard & Trackpad 01 Year warranty including parts and Onsite support</p>
03	Computers Branded	175	<p>Processor: 8th Gen. Intel® Core™ i5, 8MB cache, 2.8 GHz speed or higher in Core, Cache, Speed RAM: 8GB HDD: 1TB GB or Higher OS: FreeDOS N/w Adapter: Wi-Fi of same brand + Rj45 LED: 18.5" LED display Disk Drive: Combo drive, Keyboard, Mouse Warranty: 1 Year</p>
04	UPS 5KVA (Branded)	01	<p>5KVA Intelligent Online UPS branded for Server Machines (European/US) Output power capacity: 4.5 KWatts / 5.0 kVA Max Configurable Power (Watts):4.5 KWatts / 5.0 kVA Nominal Output Voltage: 230V Output Voltage Distortion: Less than 2% Output Frequency (sync to mains):50/60Hz +/- 3 Hz Input voltage adjustable range for 100 - 275 (half load) V Surge energy rating Minimum Backup time: upto 15 Minutes on 60% Load. Warranty: 1 Year (UPS with Battery)</p>
05	1 KVA UPS for Computers	175	<p>1 KVA UPS branded (European/US) 1000VA/600W Line interactive 160-290VAC single phase 220VAC/ 230VAC/ 240VAC 1 Year Warranty</p>

06	LaserJet Printer	150	Minimum 18 or higher pages per minute, 600 DPI USB and Ethernet Connectivity with 1 year warranty
07	Bar Code Scanner / Reader	50	Up to 86,000 Lux Wide VGA: 752 x 480 pixels Aiming: 2 Blue LED's; Illumination: Red LED 610 - 650 nm 25 IPS 25% Pitch: +/- 65°; Roll (Tilt): +/- 360°; Skew (Yaw): +/- 60° Beeper (Adjustable Tone and Volume); Datalogic , 'Green Spot' Good Read Feedback; Good Read LED 0.102 mm / 4 mils (Linear Codes) Green Scanner, Green Light Confirmation JS1 scanning, Imager 2D Withstands repeated drop from 1.5m/5.0ft onto a concrete surface 1 Year Warranty
08	Printer for Patient Registration Card (MRC)	01	<ul style="list-style-type: none"> • Card Specifications: • Printable Side: Dual • Front Side 4 Colour Static Design thru Litho Printing Process • Rear Side 1 Colour Static Design thru Litho Printing Process • ISO Standard size as per CR80 • Finishing G=loss Laminated Dual Side • High Polished Surface • PVC Microne 0.8 mm Thickness • Interfaces: USB, Ethernet • Preprinted Sample & White Blank Cards should be provided for technical • evaluation and testing • Production Lead time maximum 10~15 working days • 01 Year Warranty
09	SAN Storage	02	20 TB or Higher Controller: 1 x 2U,Dual Ctrl,AC,64GB,2*6*GE,24*2.5 I/O: 2 x 4 port Smart IO I/O module (SFP+,10Gb Eth/FCoE)

		<p>Disk: 20 TB Usable using 1.2TB 10K RPM SAS Disk Unit (2.5") & SSD Drives 2.5" with 25-30% of Total Capacity can be used for Multi-Tier / Cache purpose.</p> <p>Patch Cord: 8x Patch Cord, DLC/PC,DLC/PC,Multi-mode,10m QTY 8</p> <p>Software License include: Basic Software License(Including Device Management, thin provisioning , LUN migration, data migration data destruction, SmartMotion, SmartConfig ,System Reporter ,eService, NFS, CIFS,NDMP, quota management</p> <p>Data Protection Software Suite License(Including snapshot, LUN Copy, Clone, Volume mirror feature)</p> <p>Performance Speedup Solution Suite License(Including intelligent storage tiring , intelligent SSD caching)</p> <p>Future Capability: remote replication , active-active storage arrays , integrated backup</p> <p>Processor: Multi-core processors</p> <p>Supported storage</p> <p>Protocols: Fibre Channel, FCoE, iSCSI, NFS, CIFS, HTTP, FTP</p> <p>Type of back-end ports: SAS 3.0 (each port supporting 4 x 12 Gbit/s)</p> <p>Maximum Number of Hot-swappable I/O Modules per Controller :2</p> <p>Maximum Number of Front-end Ports per Controller :20</p> <p>Maximum Number of Disks with Dual Controllers : Minimum 240 or higher</p> <p>Disk Types Support : SSD, SAS, NL - SAS</p> <p>Support Maximum Raw Capacity with Dual Controllers and All SSDs: 1,800 TB</p> <p>Block Virtualization: Balanced data distribution, quick fault recovery</p> <p>Heterogeneous Virtualization Support: Consolidates storage resources of mainstream products to manage and allocate resources in a flexible and unified manner.</p> <p>Should Support: Maximum Number of Snapshots (LUN) : 2,048</p>
--	--	---

			<p>Maximum Number of LUNs : 4,096</p> <p>Maximum Number of Snapshots per File System : 2,048</p> <p>Maximum Capacity of a Single File : 256 TB</p> <p>Virtualization platforms: Virtualization platforms: VMware, XenServer, Hyper-V Value-added features: VMware VAAI/VASA/SRM, Hyper-V vSphere, vCenter</p> <p>Data reconstruction performance: The data reconstruction time should be less than 40 minutes per TB if the RAID group starts data reconstruction in case any hard disk get faulty</p> <p>Data Protection Software: Storage Should have/Support data protection Software Like Snapshot, Replication, Volume mirror</p> <p>Management and Maintenance: Should have GUI-based management software with full functions, such as storage array and volume management, monitoring of controllers and hard disks, etc</p> <p>Warranty:</p> <ul style="list-style-type: none"> • Must have three (03) years comprehensive warranty with principal/OEM support
11.	Patient Registration Card	25000	

II) Networking

Medical Teaching Institute / Mardan Medical Complex has been established at very large scattered area with multiple site. The responding bidder will provide the network solution as per requirement of Mardan Medical Complex. All the information pertaining to network establishment or site survey may be also be obtained from Mr. Mohsin Khan, Manager IT MMC. All the mentioned network equipment will be installed, commissioned and configured at Mardan Medical Complex with Networking as required at Core, Distribution or Access Level.

S.No	Description	Quantity
1.	<p><u>Network Switch- Manageable</u> 24 Gigabit Ethernet ports, 4 (SFP+) uplinks Power over Ethernet/Power over Ethernet Plus (PoE/PoE+) Forwarding performance: 50 Mpps Switching Capacity: 200 Gbps 16K Mac address 4K active VLANs IEEE 802.3az EEE (Energy-Efficient Ethernet) [VLAN, security, QoS) based on device type Standards-based 802.1x enables port-based network access control Console cable: RJ45 to DB9 connector with Serial-to-USB convertor. 1 Year Warranty</p>	40
2.	<p><u>Network Core Switch- modular (48 Ports)</u> Interface: 1*24 Gigabit UTP, 1*48 SFP, 4 * 10 Gig SFP+ AC 110/220V Redundant Power Supply Forwarding performance: 150 Mpps or higher Switching/backplan capacity: 400 Gbps or higher 64K Mac address or higher 4K VLANs, MPLS L3 & L2 VPN Static routing, RIPv1/2, RIPv6, OSPF, OSPFv3, BGP, BGP4+, ECMP, and policy-based routing IGMP v1/v2/v3 snooping and IGMP Electrical Transceiver, SFP,GE, Electrical Interface Module(100m,RJ45) Console Cable: RJ45-to-DB9 Adapter with Serial-to-USB convertor. 1 Year Warranty</p>	02
3.	<p><u>Layer 3 / Distributions Switches</u> 24 Ethernet 1000 ports Base-T , 4 dual-purpose 10/100/1000 or SFP,4 10 Gig SFP+ Switching capacity at-least 200Gbps or higher and forwarding throughput of 90Mpps or higher Switch should support stacking with stack modules/cables included. Console / mgmt Port: 10/100/1000 RJ-45 Power Supply: Dual</p>	02

	<p>Dynamic hardware forwarding-table allocations for ease of IPv4- to-IPv6 migration. Scalable routing (IPv4, IPv6, and multicast) tables, Layer 2 tables, and ACL and quality of service (QoS) entries to make use of eight queues per port and comprehensive security policies per port. Network virtualization through Multi-VRF technology for Layer 3 segmentation. Optimized application performance through deep visibility supporting rich Layer 2/3/4 information (MAC, VLAN, TCP flags) and synthetic traffic monitoring with IP service-level agreement (SLA).</p> <p>1 Year Warranty</p>	
3.	<p>Router</p> <p>Slot Capacity: 4 slots 3 OC192 capable I/O slots 1 RP slot that is 10G capable 1 CSF/alarm card</p> <p>Switching Capacity: 10 Gbps full-duplex switching capacity per slot. This includes the RP slots. Each slot capable of supporting all current and future Engine 0, Engine 1, Engine 2, Engine 3 and Engine 4 based line cards. Specific interfaces include OC192c, QOC48c, 10GE, 10x1GE, etc, 3xGE, 1xGE, 8xFE and other 10GiG cards. The switching capacity is required to handle all four 10GiG capable slots (including RP), thus the total switching capacity will be 80 Gbps full-duplex</p> <p>Power Supplies: 110V AC, 220V AC/DC (optional)</p> <p>Power Supply Redundancy: Redundant and load sharing AC power entry module (PEMs), or Redundant and load sharing DC PEMs and DC power distribution units (PDUs)</p> <p>Route Processors: Supports up to 2 RPs per system The second RP can be used in any slot₁ The first RP is inserted in slot 0 (1.25 inch height)</p> <p>Route Processor Redundancy: Supports online insertion and removal, hot swappable RP redundancy</p> <p>Switch Fabric: The switch fabric supports up to 80 Gbps of capacity</p> <p>1 Year Warranty</p>	01
4.	<p>Firewall</p> <p>Firewall throughput: 4 Gbit/s or higher IPS throughput: 2 Gbit/s or higher Concurrent sessions: 3,500,000 or higher VPN Throughput: 400Mbit/s Virtual firewalls: 50 4GE(RJ45) +2GE Combo,4GB Memory,1 AC Power, with IPS-AV-URL Function Group Update Service Subscribe 36 Months) 300 Gb or Higher storage capacity Optical Transceiver, eSFP, GE, Multi-mode Module(850nm,0.5km, LC) NGFW extension rail Patch cord-LC/PC-LC/PC-Multimode Authentication methods: local, RADIUS, HWTACACS, SecureID, AD, CA, LDAP, and Endpoint Security IPv4: static routing, RIP, OSPF, BGP, and IS-IS IPv6: RIPng, OSPFv3, BGP4+, IPv6 IS-IS, IPv6 RD, and ACL</p>	01

	1 Year Warranty	
5.	<p>WiFi Controller</p> <p>Scalability: Supports 12, 25, 50,100, 250, or 500 access points for business-critical wireless services at locations of all sizes</p> <p>Performance: Wired speed, non-blocking performance for 802.11n and optimized for 802.11ac networks</p> <p>Wireless: IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11k, 802.11n, 802.11r, 802.11u, 802.11w, 802.11ac.</p> <p>Wired/Switching/Routing: IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX spécification, 1000BASE-T. 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q VTagging, and IEEE 802.1AX Link Aggregation.</p> <p>1 Year Warranty</p>	01
6.	<p>WiFi Router / Access Points</p> <p>Dual-band 2.4 GHZ and 5 GHZ AP with 802.11a/b/g/n/ac wave</p> <p>Data Rates up to 1.3 Gbps</p> <p>4x4 MIMO with three spatial streams</p> <p>80 MHz Channel Support</p> <p>Controller based AP</p> <p>Local and PoE Power Supply</p> <p>Built in dual band antennas</p> <p>Support 500 or above users</p> <p>Ideal for office environment</p> <p>Automatic remedial action and less manual intervention</p> <p>1 Year Warranty</p>	10
7.	<p>Intelligent Online 5 KVA UPS (European/US)</p> <p>Output power capacity: 4.5 KWatts / 5.0 kVA</p> <p>Max Configurable Power (Watts): 4.5 KWatts / 5.0 kVA</p> <p>Nominal Output Voltage: 230V</p> <p>Output Voltage Distortion: Less than 2%</p> <p>Output Frequency (sync to mains): 50/60Hz +/- 3 Hz, Input voltage adjustable range for 100 - 275 (half load) V, Surge energy rating, 480Joules</p> <p>Minimum Backup time: upto 15 Minutes on 60% Load.</p> <p>Warranty: 1 Year (UPS with Battery)</p>	02
8.	<p>I/O's CAT 6A modular Jack Complete (3 parts)</p> <p>ANSI/TIA Category: 6A</p> <p>Cable Type: U/UTP (unshielded)</p> <p>Color: Black/White/Gray</p> <p>Brand: GigaSPEED X10D</p> <p>Product Type: Modular jack</p>	3000
9.	<p>Patch Cord 1Meter</p> <p>Category: 6A</p> <p>Environmental Space: Non-plenum</p> <p>Cable Type: U/UTP (unshielded)</p> <p>Interface, connector A: RJ45 plug</p> <p>Interface, connector B: RJ45 plug</p> <p>Jacket Color: Black</p>	1000

	Conductor Type: Solid Brand: GigaSPEED X10 Product Type: Twisted pair patch cord	
10.	Patch Cord 3Meters Category: 6A Environmental Space: Non-plenum Cable Type: U/UTP (unshielded) Interface, connector A: RJ45 plug Interface, connector B: RJ45 plug Jacket Color: Black Conductor Type: Solid Brand: GigaSPEED X10 Product Type: Twisted pair patch cord	700
11.	Patch Cord 5Meter Category: 6A Environmental Space: Non-plenum Cable Type: U/UTP (unshielded) Interface, connector A: RJ45 plug Interface, connector B: RJ45 plug Jacket Color: Black Conductor Type: Solid Brand: GigaSPEED X10 Product Type: Twisted pair patch cord	500
12.	Fiber Cable-12 cores (Single Mode) Product Type: Fiber OSP cable Cable Type: Stranded loose tube Construction Type: Armored Subunit Type: Gel-free Fiber Type Solution: G.652.D and G.657.A1 , TeraSPEED® OS2 Jacket Material: PE Total Fiber Count: 12 Armor Type: Corrugated steel Fiber Type, quantity: 12 Jacket Color: Black Jacket UV Resistance: UV stabilized Environmental Space: Aerial, Buried	10,000M
13.	Copper Cable (UTP)- GigaSPEED X10D® Cat 6A Cable Product Type: Twisted pair cable Pairs, quantity: 4 Jacket Color: Slate Conductor Type, singles: Solid Conductors, quantity: 8 Separator Type: Isolator	25,000M
14.	Fiber Patch Cord 3M (LC-LC)- Single mode Product Type: Fiber patch cord, simplex Fiber Type: G.657.A2/B2 Total Fibers, quantity: 2 Jacket Color: Yellow Fiber Mode: Single mode Interface, connector A: LC	300

	Interface, connector B: LC	
15.	Fiber Patch Cord 3M (SC-LC)- Multi mode Product Type: Fiber patch cord, simplex Fiber Type: G.657.A2/B2 Total Fibers, quantity: 2 Jacket Color: Blue Fiber Mode: Multimode Interface, connector A: SC Interface, connector B: LC	300
16.	Patch Panel Copper ANSI/TIA Category: 6A Intelligence Type: Passive Brand: Giga SPEED X10D® Product Type: Copper patch panel	40
17.	ODF 24 port complete 24 Ports ODF 24 ports cassette each 24 pig tails each 24 sleeves each	40
18.	Face Plate Dual Shutter	500
19.	RJ- 45 Connectors- Cat 6A	1000
20.	SFP module as per actual	80
21.	SFP+ (10Gig) Module as per actual	60
22.	Network Switch Cabinets 12 U 2 Fans, Glass Front Door, Double Section 6 Ports Universal PDU, One tray included	40
23.	Labor Cost with Ducting, Earthling (Only for NOC), Cable Trays (6"/3"), PVC-Pipe, EMT Pipe, Network power distribution (7/36, 3 cores including one Neutral), patching, installation, configuration of network equipment of 1000 nodes. Note: Cable trays, Network power distribution cable, PVC-Pipe, EMT Pipe must be per meter cost.	1000

7. SPECIAL CONDITIONS OF THE CONTRACT:-

1. The items offered must have at standard warranty as per manufacturer after installation and production
2. If any of the given specifications/parameters does not meet the required specifications, their offer will not be considered and shall summarily be rejected by DoST.
3. **Performance Guarantee:-** Successful Bidder will have to furnish a performance guarantee up to 10% of the contract value in shape of Demand Draft or Bank Guarantee in favor of the "Director, Directorate of Science & Technology which shall remain with the till warranty period.
4. **Inspection and Tests:** The DoST shall have the right to inspect and/or to test the goods to confirm their conformity in regards to the specification placed in this document. Institution will notify the supplier in writing of the identity of any representatives for this purpose.
5. **Warranty:-** (i) Warranty period for the equipment should be standard as per original manufacturer both with spare parts and services from the date of installation. All the bidders / firms are required to clearly mention in its technical proposal / bidding documents.

(ii) The period for correction of defects in the free warranty period is one year after installation **(with free parts)** and free services, including all incidental charges but with all incidental charges related to services provision on the site of installation.

(iii) During warranty period of One Year, bidder shall provide at least **"4 PPM maintenance visits per year at regular interval"** for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval, a proportionate deduction in the form of penalty on pro-rata basis will be recovered from the bidder from the Bank Guarantee amount. In case the Bank Guarantee is not adequate, Institute shall have right to recover the losses / penalty from other sources as well.

(v) During warranty period, bidder will make the **"Complete System"** in satisfactory working condition. In case, any spare parts, accessories, etc. needs replacement due to normal wear and tear, bidder will supply and install the same for which no additional payment is to be made. If any spares / accessories etc. are not replaced by the bidder during warranty period, bidder should mention it clearly with name of the items with frequency of replacement and its rate with a validity to cover warranty period.

(vi) The firm will also attend all breakdown calls within 48 hours of the receipt of the information from institute through fax/e-mail/mobile/sms etc.

6. **Upon shipment**, the Supplier shall notify the DoST the full details of the shipment, including Contract number, description of Goods, quantity and usual transport document. The Supplier shall mail the following documents to this Institution.

i. copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; ii. original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods; iii. copies of the packing list identifying contents of each package; iv. Insurance certificate; v. Manufacturer's or Supplier's warranty certificate; vi. Inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and vii. Certificate of origin.

7. **Applicable Law:-** The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan which includes the following legislation:

- i. The KPPRA Act 2012
- ii. The KPPRA Rules 2014
- iii. The Contract Laws 1872
- v. The General Financial Rules of the Govt. of Khyber Pakhtunkhwa and all the relevant laws, rules and regulations pertaining to budgeting and financial management of public funds.
- vi. The Factories Act 1934

8. **Award of Contract:** Contracts shall be confirmed through a written agreement signed by the successful bidder and Directorate of Science & Technology

In case of a successful bidder, who repudiates the contract or fails to furnish performance guarantee and as the case may be shall proceed for blacklisting and the work order will be placed to the Next Successful Bidder or from the alternative sources at the cost/risk of the concerned firm.

The firm will be responsible for custom clearance etc. The hospital will provide undertaking.

9. **Delivery and Installation Period:** the equipment should be delivered and installed within 120 days after signing of Contract.

10. **Force Majeure:**

i) In case of the situation related to Force Majeure, the Bidder may inform the Procuring Entity in writing about the situation immediately without delay along with solid proof through the fastest, lawful and available means of communication, but not through the electronic mail, and request the Procuring Entity for the grant of extension in the supply period.

ii) The Procuring Entity, in case of being fully satisfied with the genuineness of situation arising from Force Majeure for the Bidder, may extend the period of supply of goods up to a maximum of not more than thirty days without penalty. However, the Procuring Entity and / or Procuring Entity shall, in no case, be responsible or held responsible for any complications in making payments to Bidder by the Procuring Entity that may arise from the closure of financial year and lapse / surrender of public funds vis-à-vis the normal financial management procedures in public sector.

11. **Liquidated Damages:** If the department doesnot permit the extension, 0.5 % per week penalty will be imposed on the firm.

12. **Assignment:**

The Bidder shall not assign, in whole or in part, its obligations to perform to another party under this Contract, except with the Procuring Entity's prior written consent.

13. **ARBITRATION AND RESOLUTION OF DISPUTES:**

i) The Procuring Entity and the bidder shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the Contract.

ii) If after Seven (7) days from the commencement of such informal negotiations, the Procuring Entity and the bidder have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution through arbitration.

iii) In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration. Secretary ST&IT Department or his nominee shall act as sole arbitrator. The decisions taken and/or award made by the sole arbitrator shall be final and binding on the Parties.

14. **Payment:**

No advance payment will be permissible and will be made after successful supply, installation/inspection (as on Turnkey basis) and test run of all requisite items along with training to the 02 x End Users / Technical Staff.

15. **Part Supply:** No part supply/ wrong supply or short supply will be accepted by the Directorate.

The DoST Management will be the final authority and will have the right to reject full or any part of supply, which is contradictory to the terms and conditions agreed at the time of placement of order. In case of rejection of any supplied items due to nonconformity in quantity and/or quality, Institute will have right to charge liquidated damages, as it deems fit.

TECHNICAL EVALUATION CRITERIA

S #	Description	Range	Marks	Remarks
1.	Conformance to the Products (Servers, Desktop Computers, UPS, Printer, SAN Storage, Network Switches, Firewall, Wi-Fi Controller, Wireless Access Points, Printer for Patient Registration Card). Each product with 100% conformity will get 4 marks. Cumulative of products will be consider for numbering, any firm obtained below 36 marks will not be considered for further evaluation). *Technical specification as per required standards must be provided.			40
2.	Additional features of the product (02 marks for each feature)			04
3.	Years of Experience (One mark for each year)	06 to 9 Years	04	Company profile must be attached
		10 to 13 Years	08 (Max)	
4.	Projects Completed (same nature, same Level)	01 to 03 Projects	05	List of the projects along with contract documents, purchase order and completion certificates must be attached
		04 to 06 Projects	10	
		07 & above	18 (Max)	
5.	Human Resource (One mark for each Engineer/Technician)	Project Manager	04	Qualifications/ Payroll/other relevant documents must be attached
		Network /Hardware/Fiber Engineer	03	
		Network/Hardware/ Fiber Technician	03	
6.	Financial capabilities (Turnover)	100 M to 400 M	04	Relevant record
		401 M to 800 M	07	
		801 M & above	10 (Max)	
7.	Annual Tax Returns of FBR	of last 05 Years	05 (Max)	One mark for each year
8.	ISO 9001:2015 or higher Certified	ISO 9001:2015 or higher Certified	05 (Max)	Relevant Certification
Total Marks			100	

Note:-

- i. Qualification Marks for financial bid opening are 70 out of 100 marks.
- ii. Contract shall be awarded to the bidder whose bid is responsive and is determined as the best evaluated bid under section 2(1)(C)(i) of KPPRA Act 2012.
- iii. 70:30 (Technical: Financial) ratio shall be applied for the subject procurement.

Financial Evaluation:

The bid with the lowest price will be given a score of 100 while the other proposals will be given scores that are inversely proportional to the lowest cost bid using the formula as under;

Lowest Bid Price ÷ Bid Price x 30 = Financial Score.

Combined Technical and Financial Score

A total score for each bid will be obtained by adding technical score weightage and financial score weightage.

Technical Score shall be given 70% Weightage and Financial Score shall be given 30% weightage.

8. Award of Contract:

Contracts shall be confirmed through a written agreement signed by the successful bidder and Directorate of S&T.

9. Payment:

- a. No advance payment will be permissible.
- b. The payment will be made after successful supply, installation/inspection and test run of all requisite items along with training to the 02 x End Users.

BID SECURITY FORM

Whereas name of the Bidder (hereinafter called "the Bidder") has submitted its bid dated *date of submission of bid* for the supply of *name and/or description of the goods* (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE name of bank of Pakistan, having our registered office at [address of bank] (hereinafter called "the Bank"), are bound unto [name of Procuring entity] (hereinafter called "the Procuring entity") in the sum of for which payment well and truly to be made to the said Procuring entity, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of _____ 2018.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form;
or
2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring entity during the period of bid validity:
 - a. fails or refuses to execute the Contract Form, if required; or
 - b. fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders;

We undertake to pay to the Procuring entity up to the above amount upon receipt of its first written demand, without the Procuring entity having to substantiate its demand, provided that in its demand the Procuring entity will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including twenty eight (28) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[signature of the bank]

CONTRACT FORMS

PERFORMANCE SECURITY FORM

To:

The Director,
Directorate of Science & Technology,
Government of Khyber Pakhtunkhwa,
Peshawar.

WHEREAS [name of Supplier] (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. [Reference number of the contract] dated / /2018 to supply *Surgical Instruments and its ancillary services* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of [amount of the guarantee in words and figures], and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of [amount of guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the ____ day of _____ 2018.

Signature and seal of the Guarantors

[name of bank or financial institution]

[Address]

[date]

CONTRACT FORM

THIS AGREEMENT made the date day of month 2017 between [MTI / MMC MARDAN (KPK)] of [Pakistan] (hereinafter called "the Procuring entity") of the one part and [Name Of Supplier] Of [city and country of Supplier] (hereinafter called "the Supplier") of the other part:

WHEREAS the Procuring entity invited bids for Goods (Surgical Instruments) along with ancillary services and has accepted a bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) The Bid Form and the Price Schedule submitted by the Bidder;
 - (b) The Schedule of Requirements;
 - (c) The Technical Specifications;
 - (d) The General Conditions of Contract;
 - (e) The Special Conditions of Contract; and
 - (f) The Procuring entity's Notification of Award.
3. In consideration of the payments to be made by the Procuring entity to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring entity to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract
4. The Procuring entity hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written

Signed, sealed, delivered by _____ the _____ (for the Procuring Entity)

Signed, sealed, delivered by _____ the _____ (for the Supplier)

INTEGRITY PACT

Contract No. _____ Dated _____ Contract Value: [_____]

Contract Title: "Procurement & Installation of Hardware Items and Network (Fiber & Ethernet),
Networking equipment at MTI-MMC MARDAN"

Firm Name hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Khyber Pakhtunkhwa (GoKP) or any administrative sub division or agency there of or any other entity owned or controlled by GoKP through any corrupt business practice.

Without limiting the generality of the foregoing, Firm Name represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from Government of Khyber Pakhtunkhwa, except that which has been expressly declared pursuant hereto.

Firm Name certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with Government of Khyber Pakhtunkhwa and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

Firm Name accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoKP under any law, contract or other instrument, be voidable at the option of Government of Khyber Pakhtunkhwa.

Notwithstanding any rights and remedies exercised by GoKP in this regard, Firm Name agrees to indemnify GoKP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoKP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by Firm Name as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from Government of Khyber Pakhtunkhwa.

Name of Buyer / Procuring Entity

Name of Supplier

Firm Name

Name:

Name:

Designation:

Designation:

Signature

Signature

SEAL

SEAL

6. Manufacturer's Authorization Form

To: *[name of the Procuring agency]*

WHEREAS *[name of the Manufacturer]* who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]*

do hereby authorize *[name and address of Agent]* to submit a bid, and subsequently negotiate and sign the Contract with you against IFB No. *[reference of the Invitation to Bid]* for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.

[signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.