



STANDARD BIDDING DOCUMENT

Supply of ICT Equipment's

2026-2027

(Samtse College of Education)



Royal Government of Bhutan

Ministry of Finance

2023



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1	Package	7
2	Quotation	Supply of ICT Equipment's for 2026-2027
3	Last date of submission	1st July,2026 at 12.00pm
4	Place of submission	Office of Store In-Charge
5	Date of opening	1st July, 2026 at 2.00pm
6	Place of opening	Rigpa Hall
7	EMD	Nu. 12000 (Twelve Thousand only) to be submit with documents on 1st July



TERMS AND CONDITIONS

1. The rates quoted shall be CIF Samtse College of Education for the **Supply of ICT Equipment's for 2026-2027**. Generally, the rates quoted shall be inclusive of all charges/levies/taxes which the suppliers shall bear.
2. The quotation should be accompanied by the valid trade license issued by the Ministry of Economic Affairs and the Tax Clearance Certificate issued by the Department of Revenue and Customs, Royal Government of Bhutan, as the enclosure. Quotation without a valid trade license and tax certificate as enclosure shall be rejected.
3. The tender shall be accompanied by an application to the PRESIDENT, Samtse College of Education.
4. Sealed envelopes containing the quotation shall be marked **Original** and **Duplicate** in separate envelopes. All pages should be signed by authorized person. The quotation will be opened in the Rigpa Hall, Samtse College of Education on **1st July 2026 at 2.00 PM**.
5. The rates quoted shall be valid for a period of 12 months from the date of quotation.
6. Goods should be supplied within **30 days** from the date of issue of the purchase order (or) supplier should corporate with (PA) if it required before 30 days.
7. *Earnest money of Nu.12000.00 (Twelve thousand) only should be furnished in the form of Bank Draft in favor of the PRESIDENT, Samtse College of Education. Quotation without earnest money shall be rejected.*
8. The College reserves the right to vary the quantity up to **10%** on the same terms and conditions.
9. All equipment supplied must be as per the specification and any fake item noticed shall be rejected, returned at the supplier's cost and shall be dealt with as per PRR 2025 terms and conditions.
10. The College reserves the right to reject all or any tender without assigning any reason.
11. If the supplier fails to supply the required quality and quantity of goods, the College Administration will forfeit the performance security and terminate the



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List of ICT Equipments for 2026-2027

Sl. No	Description of Items	Make/Brand	Unit Price (Nu.)	Remarks
1	Computer Parts & Accessories			
1.1	External SSD 1TB			
1.2	Internal HDD 8 TB			
1.3	HDMI Cable 15m			
1.4	CMOS Battery			
1.5	SMPS for Dell Optiplex 3060/3080			
1.6	SMPS for Dell Precision 3650 Tower			
1.7	USB thumb Drive (8 & 16 GB)			
1.8	128GB Ultra SDXC UHS-I Memory Card (180 MB/s read speed)			
2	Presenter Remote(Logitec or equivalent)			
3	Heavy Duty Printers			
3.1	Features: Auto Duplex Printing Printer Type: Black and White Printing Technology: Laser Print Resolution: 1200x1200 DPI Print Speed Black: 45 PPM Paper Size: A4, Letter Paper Tray: standard 500 Sheets Network Interface and Connectivity: USB Host, USB 2.0 High-Speed, 10BASE-T/100 BASE-TX/1000BASE-T Build-in Fast Ethernet Duty Cycle: 100000 Pages per month Softwares: Printer Driver CD and Accessories			
4	Multi Function Printer			
4.1	System speed A4: Up to 36 ppm System speed A3: Up to 18 ppm Autoduplex speed A4: Up to 36 ppm Imaging technology: Laser Panel size/resolution: 7" / 800 x 480 System memory: 2,048 MB / 4,096 MB (standard/max) System hard drive: 250 GB (standard) Interface: 10/100/1,000-Base-T Ethernet; USB 2.0; Wi-Fi 802.11 b/g/n/ac (optional) Network protocols: TCP/IP (IPv4 / IPv6); SMB; LPD; IPP; SNMP; HTTP Paper input capacity: 1,100 sheets / 3,600 sheets (standard/max) Toner lifetime: Black up to 23,000 pages Print resolution: 1,800 (equivalent) x 600 dpi Operating systems: Windows, Windows Server, macOS, Unix, Linux, Citrix Scan speed: Up to 45/45 ipm in simplex (mono/colour) Scan resolution: Up to 600 x 600 dpi			



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	<p>Scan modes: Scan-to-eMail, Scan-to-SMB, Scan-to-FTP, Scan-to-Box, Scan-to-USB, Scan-to-WebDAV, Scan-to-DPWS, TWAIN scan</p> <p>File formats: JPEG, TIFF, PDF, Compact PDF, Encrypted PDF, XPS, Compact XPS, PPTX</p> <p>Scan destinations: 2,000 destinations + 100 groups; LDAP support</p> <p>Copy resolution: 600 x 600 dpi</p> <p>Gradation: 256 gradations</p> <p>Multicopy: 1-9,999</p> <p>Original format: Max. A3</p> <p>Magnification: 25-400% in 0.1% steps; Auto-zooming</p> <p>Fax transmission: Analogue; i-Fax; Colour i-Fax; IP-Fax</p> <p>Fax resolution: Up to 600 x 600 dpi</p> <p>Fax compression: MH; MR; MMR; JBIG</p> <p>Fax modem: Up to 33.6 Kbps</p> <p>Fax destinations: 2,000 single + 100 groups</p>			
5	Back-UPS			
5.1	APC-UPS Backup RS 1100			
6	PowerStrip			
6.1	Universal PowerStrip (15amp) with AC noise filter			
7	Computer repairs and maintenance			
7.1	Laptop Repairing Tools Kits			
7.2	Digital Multimeter (kusum maco)			
7.3	Complete 8-in-1 Network Tool Kit			
7.4	RJ45 Crimping Tool Network Tool Kit for Cat5 Cat5e Cat6, 10 in 1 Portable Ethernet Cable Crimper Kit for Rj45/Rj11/Rj12, 8p8c Ethernet Tool Kit Cat5 Cat6 Cable Tester, Punch Down Tool			
8	Fiber Patch panel (LIU Loaded)			
8.1	12 ports			
8.2	24 ports			
9	Switch rack			
9.1	Switch rack 9U			
10	Fiber patch code			
10.1	Single mode, 3M SC-to-LC			
10.2	Single mode, 3M LC-to-LC			
11	R45 Connectors			
11.1	R45 Connectors			
12	UTP cable			
12.1	Cat6a indoor			
12.2	Cat6a outdoor			



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12.3	Armored fiber optic cables (in meter)			
13	SFP Module			
13.1	<ul style="list-style-type: none"> • SFP module, 1.25G, SM 1310nm, • Flexible architecture (Should be compatible with major brands of switch) • Hot-swappable • RoHS compliant • Compliant to SFP+ Electrical MSA SFF-8431 • Compliant to SFF-8472 MSA 			
14	Wireless Access Point - Indoor & Outdoor (Unifi or Equivalent)			
14.1	UAP U6 Pro or U7 Pro PoE Adapter: Yes			
14.2	PoE Adapter for Unifi Indoor AP output of 48V UPOE-af			
15	Switches			
16	Core switch			
16.1	Managed Switch with 24 x 10/100/1000T PoE ports and 4 x 100/1000X SFP ports - 3 years replacement warranty			
16.2	Managed Switch with 24 x 10/100/1000T ports and 4 x 100/1000X SFP ports - 3 years replacement warranty			
17	Edge Switch			
17.1	Managed Switch with 16 x 10/100/1000T PoE ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
17.2	Managed Switch with 16 x 10/100/1000T ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
18	Edge Switch			
18.1	Managed Switch with 8 x 10/100/1000T PoE ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
18.2	Managed Switch with 8 x 10/100/1000T ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
19	pfSense hardware			
18.1	<ul style="list-style-type: none"> • CPU: Intel "Xeon-DE" D-1537, 1.7 GHz FCBGA 1667 supported SoC • Standard: Standard 1U rack mount • CPU Cores: 8 • Memory: 32 GB ECC UDIMM • Storage: 256 GB M.2 SSD • Network Interfaces: Dual LAN via Intel® i350-AM2 1 Gigabit •• Ethernet, Dual LAN via SoC 10GbE SFP+, Virtual Machine •••Device Queues 			



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	<p>reduce I/O overhead, Supports 10GbE (SFP+), 100BASE-TX, and 1000BASE-T (RJ45), 1x Realtek RTL8201N •PHY (dedicated IPMI)</p> <ul style="list-style-type: none"> •Network Expansion: 4-Port Intel GbE and 2-port Chelsio SFP+ Expansion •USB Ports: 2x 3.0 ports •Console Port: VGA •Case: Standard 1U rack mount •Cooling: Active •License for Software: Free and Open Source Software. No license or subscription fee •Warranty Period: Three years <p>•Equivalent to XG-1537 MAX pfSense+ Security Gateway</p>			<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> </table>				
19.1	<p>Netgate 8300/Equivalent – Minimum Technical Specifications</p> <p>1.1 Hardware Specifications</p> <p>The proposed firewall appliance shall meet or exceed the following minimum requirements:</p> <p>Processor Intel® Xeon® D-1733NT or higher Minimum 8 cores / 16 threads or higher Hardware acceleration support (AES-NI, AVX-512 or equivalent) Enterprise-grade networking CPU optimized for high throughput and VPN workloads</p> <p>Memory (RAM) Minimum 16 GB DDR4 ECC RAM Expandable up to 32 GB ECC RAM or higher preferred Industrial/server-grade memory required for 24/7 operation</p> <p>Storage Minimum 512 GB NVMe SSD (Enterprise-grade) High endurance storage suitable for firewall logs and security services Support for M.2 NVMe or equivalent high-speed storage</p> <p>Network Interfaces Minimum total 10 or more network interfaces Must include: At least 4 × 10GbE SFP+ ports At least 4 × 1GbE SFP or RJ45 ports Additional 2.5GbE or management ports</p>							



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<p>acceptable Support for VLAN tagging, trunking, and link aggregation (LACP) Support for high-speed multi-WAN configurations</p> <p>1.2 Performance Requirements Minimum firewall throughput: 25 Gbps or higher IPsec VPN throughput: 10 Gbps or higher Support for 2000+ concurrent users or more Stateful inspection firewall engine NAT, routing, policy-based traffic control VPN support (IPsec / OpenVPN / WireGuard) Full support for IDS/IPS (Suricata or equivalent) High-performance packet processing under full load</p> <p>1.3 Software Requirements pfSense Plus or equivalent enterprise firewall operating system Web-based graphical management interface Secure CLI (SSH) access support Regular firmware updates and long-term vendor support Support for: Multi-WAN load balancing and failover Advanced traffic shaping (QoS) Captive portal for user authentication DNS filtering and domain-based blocking Centralized firewall rule management</p> <p>1.4 Security Features Stateful packet inspection firewall Advanced Intrusion Detection and Prevention System (IDS/IPS) GeoIP-based blocking and filtering Application-level traffic control (optional module support) Real-time logging and monitoring dashboard Role-based access control (RBAC) Support for threat intelligence feeds and blacklist integration Secure encrypted management access (HTTPS/SSH)</p> <p>1.5 Physical & Installation Requirements 1U rack-mountable enterprise appliance Suitable for standard 19-inch data center rack Redundant power supply (dual PSU preferred for high availability models)</p>	
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	<p>High-efficiency active cooling system for 24/7 operation Includes rack mounting kit and all necessary accessories Designed for continuous enterprise-grade operation</p> <p>1.6 Preferred Model Netgate 8300 Security Gateway OR equivalent enterprise-grade firewall appliance meeting or exceeding the above specifications</p> <p>2. Warranty & Support Minimum 1 year comprehensive hardware warranty Vendor-backed firmware and software support Regular security patches and updates Optional enterprise support contract preferred Replacement support for hardware failure during warranty period</p> <p>3. Delivery & Installation Delivery to Samtse College of Education Full installation and configuration support required Integration with existing ISP and DrukREN network infrastructure Migration from existing firewall setup without service disruption Basic training for ICT staff on firewall management and monitoring Support for VLAN segmentation and policy configuration for: Student's network Faculty network Administrative network Examination systems network</p>			
20	Cartridge			
20.1	HP Color Laser Jet Pro M452dn Toner, Set of 4 - (CF410A, CF411A, CF413A, CF412A)			
20.2	Prima 8 card printer- CX-D80 9YMCK Dye film and Retransfer film set)			
20.3	Epson L1300 tonners set			



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