

# STANDARD BIDDING DOCUMENTS

## SUPPLY OF ICT EQUIPMENTS & ACCESSORIES



Samtse College of Education

Samtse, Bhutan

2023



Royal University of Bhutan

འབྲུག་རྒྱལ་འཛིན་གཙུག་ལག་སློབ་མེ  
SAMTSE COLLEGE OF EDUCATION



Ref: 37/SCE-Quot /2023-2024/ 29

Date: 6<sup>th</sup> July 2023

The General Manager  
Advertisement Division  
Kuensel Corporation  
Thimphu.

Sir/Madam,

The undersigned would like to request your office to kindly publish the following notice inviting tender in your newspaper dated 7<sup>th</sup> July 2023 and bill may be sent to us for payment:

**SAMTSE COLLEGE OF EDUCATION**  
**NOTICE INVITING TENDER**

Samtse College of Education is pleased to invite sealed tender from the eligible license holders for the supply and services of the following items for the financial year 2023-2024.

Sl. No	Particulars
1	Supply of Stationery items
2	Supply of Hardware, Electrical & Plumbing items
3	Supply of Games & Sports items
4	Supply of IT equipment & Accessories
5	Supply of Science laboratory equipment & chemical
6	Supply of Vegetables, Grocery and Meat items
7	Supply of Library Books

The bidding documents can be downloaded from our website <http://www.sce.edu.bt> of Samtse College of Education. The last date for submission of tender is 27<sup>th</sup> July 2023 at 12:00 PM and it will be opened on the same day at 2:30 PM.

For any further inquiry, please contact Administrative Section at 05-365273, during working hours.

**President**

Yours sincerely,

(Rinchen Dorji, PhD)

**PRESIDENT**



: 05 365391(President) 365274 (Adm) 365273 (Office) 365363 (Fax) P.O Box No. 329

Visit us at [www.sce.edu.bt](http://www.sce.edu.bt)

<b>1</b>	<b>Package</b>	<b>4</b>
<b>2</b>	<b>Quotation</b>	<b>ICT Equipments &amp; Accessories</b>
<b>3</b>	<b>Last date of submission</b>	<b>27<sup>th</sup> July, 2023 at 12pm</b>
<b>4</b>	<b>Place of submission</b>	<b>Office of Store In-charge</b>
<b>5</b>	<b>Date of opening</b>	<b>27<sup>th</sup> July, 2023 at 2.30pm</b>
<b>6</b>	<b>Place of opening</b>	<b>Conference Hall</b>
<b>7</b>	<b>EMD</b>	<b>Nu. 10,000 (Ten Thousand only)</b>

# ICT Equipment's and Accessories 2023-2024

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## TERMS AND CONDITIONS

1. The rates quoted shall be CIF Samtse College of Education for the supply of ICT Equipment & Accessories. 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. The quotation will be opened in the Conference Hall, Samtse College of Education on 27<sup>th</sup> July 2023 at 2.30 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.
7. Earnest money of Nu.7500.00 (Seven thousand five Hundred) only should be furnished in the form of Cash Warrant/Bank Draft/Unconditional bank guarantee in favour 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 Clause 18 of the 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 earnest money and terminate the contract without any explanation and the supply order will be given to the next evaluated lowest bidder.
12. Failing to submit the quotation within the submission dateline shall be declared as 'late' and rejected. The same would be returned unopened to the supplier.



13. The rules and regulations for the establishment and operation of Industrial and Commercial ventures must be adhered to with regard to the establishment of license ventures.
14. The rates should be quoted against the specification provided and failing to quote in conformity with the specification shall be disqualified for evaluation.
15. The purchaser shall not be responsible for any damage, loss or undue incident that occurred during the transportation. The supplier will be fully responsible for making them good at his own cost.
16. The supplier should have a warranty of one year from the date of delivery.
17. The supplier should be able to supply the material immediately during the time of emergency and if the bidder fails to supply the required material the bidder shall bear the expenses to purchase from another supplier for the College, Samtse.
18. The committee will directly reject the tender if the supplier supplies duplicate/fake or compromised material and the College Administration will forfeit the earnest money and terminate the contract without any explanation and the supply order will be given to the next evaluated lowest bidder.
19. If the selected bidder fails to supply the goods within the stipulated time, the liquidated damages of Nu.0.1% per day the bill amount will be imposed.
20. Pursuant to the condition above, the second-lowest bidder at his quoted rate shall be asked to supply the goods after submitting performance security to the College Administration.
21. The performance security retained with the College shall be refunded to the concerned supplier after the completion of the supply of goods.
22. The College will process the bills for payment only upon complete delivery of the goods to the College.
23. Decision taken by the College Tender Committee will be final and binding.
24. In addition to the terms and conditions mentioned above, all other relevant regulations of the Procurement Manual 2009, shall apply where specific mention is not made.



## List of ICT Equipments for 2023-2024

Sl. No	Description of Items	Make/Brand	Unit Price (Nu.)	Remarks
<b>1</b>	<b>Computer Parts &amp; Accessories</b>			
1.1	External SSD 1TB			
1.2	Internal HDD 8 TB			
1.3	USB Mouse (Good Quality)			
1.4	USB Keyboard (Good Quality)			
1.5	Standard VGA Card			
1.6	10GB Dual port PCI-express 2.0x8 Ethernet Expansion Card			
1.7	1GB Dual port PCI-express 2.0x8 Ethernet Expansion Card			
1.8	Standard 10/100/1000Mbps LAN Card			
1.9	VGA Cable 15m			
1.10	HDMI Cable 15m			
1.11	CMOS Battery			
1.12	SMPS for Dell Optiplex 3060/3080			
1.13	SMPS for Dell Precision 3650 Tower			
1.14	USB thumb Drive (8 & 16 GB)			
1.15	HDMI Splitter (One Input and three ore more outputs)			
1.16	VGA Splitter (One Input and three ore more outputs)			
1.17	two side usb Universal Micro USB(5m)			
1.18	HDMI to Mini HDMI Cable 10m for Canon EOS 5D Mark IV Camera			
1.19	Flash For Canon EOS 5D Mark IV Camera (Speedlite or Equivalent)			
1.20	128GB Ultra SDXC UHS-I Memory Card (180 MB/s read speed)			



<b>2</b>	<b>LCP Projector (Epson EB-S42 or Equivalent)</b>			
	<ul style="list-style-type: none"> <li>• Display Type: LCD</li> <li>• Light Output: 2700 Lumens</li> <li>• Warranty: 2 Year(s)</li> <li>• Features: Convenient Connection to a Document Camera, Direct Display from USB, Eco Friendly, HDMI Connectivity, High Contrast Ratio, Horizontal Keystone Adjuster, IR Receivers, Wireless Transmission</li> <li>• Audio: Mono</li> <li>• Life of Lamp - Full Usage: 5000 Hours</li> <li>• Life of Lamp - Eco Usage: 6000 Hours</li> <li>• Screen Coverage: 30-350 Inches</li> <li>• Contrast Ratio: 10000:1</li> <li>• Throw Ratio: 1.45-1.96</li> <li>• Resolution: SVGA(800x600)</li> <li>• Audio Output: 1 Watts</li> <li>• Projector Lens: No Optical Zoom-Focus Manual</li> </ul>			
<b>3</b>	<b>Projector Lamps</b>			
3.1	EPSON LAMP (EB-S31)			
3.2	EPSON LAMP (EB-S42)			
<b>4</b>	Presenter Remote(Logitech or equivalent)			
<b>5</b>	<b>Printers</b>			
5.1	<b>Features:</b> Auto Duplex Printing <b>Printer Type:</b> Black and White <b>Printing Technology:</b> Laser <b>Print Resolution:</b> 1200x1200 DPI			
5.2	Canon ir2525w or Equivalent			<i>specs attached</i>
<b>6</b>	<b>Back-UPS</b>			
6.1	APC-UPS Backup RS 1100			
<b>7</b>	<b>PowerStrip</b>			
7.1	Universal PowerStrip (15amp) with AC noise filter			
<b>8</b>	<b>Computer repairs and maintenance</b>			
8.1	IP (for wash board)			
8.2	Laptop battery Tester/Charger			
8.3	Laptop Repairing Tools Kits			



8.4	Digital Multimeter (kusum maco)			
8.5	Velleman VTMUS2 Crimping Tool Kit for Network Cables			
8.6	Ethernet cable Tester			
<b>9</b>	<b>Epson ELPAP10 Wireless Dongle</b>			
	<p>This high-speed, wireless network adapter plugs directly into select Epson projectors allowing quick and easy access to the LAN or peer-to-peer networks without wires or cables. When used with Epson EasyMP Monitor and Network Projection software, users can remotely access and control projectors over the wireless LAN.</p> <ul style="list-style-type: none"> <li>• Compliant with 802.11 b/g/n standards</li> <li>• Uses USB type A connector</li> <li>• Compatible with PC or Mac</li> <li>• Able to transmit audio</li> <li>• Model: V12H731P02</li> </ul>			
<b>10</b>	<b>Fiber Patch panel (LIU Loaded)</b>			
10.1	12 ports			
10.2	24 ports			
10.3	48 port			
<b>11</b>	<b>Switch rack</b>			
11.1	Switch rack 9U			
<b>12</b>	<b>Fiber patch code</b>			
12.1	Single mode, 3M SC-to-LC			
12.2	Single mode, 3M LC-to-LC			
<b>13</b>	<b>R45 Connectors</b>			
13.1	R45 Connectors			
<b>14</b>	<b>UTP cable</b>			
14.1	Cat6e indoor			
14.2	Cat6e outdoor			
14.3	Armored fiber optic cables (in meter)			





<b>15</b>	<b>SFP Module</b>			
15.1	<ul style="list-style-type: none"> <li>• SFP module, 1.25G, SM 1310nm,</li> <li>• Flexible architecture (Should be compatible with major brands of switch)</li> <li>• Hot-swappable</li> <li>• RoHS compliant</li> <li>• Compliant to SFP+ Electrical MSA SFF-8431</li> <li>• Compliant to SFF-8472 MSA</li> </ul>			
<b>16</b>	<b>Wireless Access Point - Indoor &amp; Outdoor (Unifi or Equivalent )</b>			
16.1	UAP AC PRO PoE Adapter: Yes			
16.2	PoE Adapter for Unifi Indoor AP output of 48V UPOE-af			
<b>17</b>	<b>Switches</b>			
<b>17.1</b>	<b>Core switch (Allied Telesis AT-x230-28GP/Equivalent)</b>			
17.1.1	Managed Switch with 24 x 10/100/1000T PoE ports and 4 x 100/1000X SFP ports - 3 years replacement warranty			
17.1.2	Managed Switch with 24 x 10/100/1000T ports and 4 x 100/1000X SFP ports - 3 years replacement warranty			
<b>17.2</b>	<b>Edge Switch (Allied Telesis AT-x230-18GP/Equivalent)</b>			
17.2.1	Managed Switch with 16 x 10/100/1000T PoE ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
17.2.2	Managed Switch with 16 x 10/100/1000T ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
<b>17.3</b>	<b>Edge Switch (Allied Telesis AT-x230-10GP/Equivalent)</b>			
17.3.1	Managed Switch with 8 x 10/100/1000T PoE ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
17.3.2	Managed Switch with 8 x 10/100/1000T ports and 2 x 100/1000X SFP ports - 3 years replacement warranty			
<b>17.4</b>	<b>Router (Cisco 7200 Series or Equivalent)</b>			<i>specs attached</i>



<b>18</b>	<b>Camera &amp; Microphone (compatible with MAXHUB Interactive Panel)</b>			
18.1	4K USB/HDMI Video Conference System -: Camera, Microphone, and Speaker Bar for Large Conference Rooms - Presenter Tracking, NoiseBlock AI + Echo Cancellation, Intelligent Facial Detection and Auto Framing, 12MP camera with 5x digital zoom, Ultra-wide 120-degree field of view, 8 meters clear pickup distance, 25 feet Expansion microphone - Teams/Zoom Certified. System Stand: Yes, 2 years replacement warranty			
<b>19</b>	<b>pfSense hardware</b>			
	<ul style="list-style-type: none"> <li>• CPU: Intel "Xeon-DE" D-1537, 1.7 GHz FCBGA 1667 supported SoC</li> <li>• Standard: Standard 1U rack mount</li> <li>• CPU Cores: 8</li> <li>• Memory: 32 GB ECC UDIMM</li> <li>• Storage: 256 GB M.2 SSD</li> <li>• Network Interfaces: Dual LAN via Intel® i350-AM2 1 Gigabit • • Ethernet, Dual LAN via SoC 10GbE SFP+, Virtual Machine • • •Device Queues reduce I/O overhead, Supports 10GbE (SFP+), 100BASE-TX, and 1000BASE-T (RJ45), 1x Realtek RTL8201N •PHY (dedicated IPMI)</li> <li>•Network Expansion: 4-Port Intel GbE and 2-port Chelsio SFP+ Expansion</li> <li>•USB Ports: 2x 3.0 ports</li> <li>•Console Port: VGA</li> <li>•Case: Standard 1U rack mount</li> <li>•Cooling: Active</li> <li>•License for Software: Free and Open Source Software. No license or subscription fee</li> <li>•Warranty Period: Three years</li> <li>•Equivalent to XG-1537 MAX pfSense+ Security Gateway</li> </ul>			



## Canon ir2525w or Equivalent Specification

<b>MAIN UNIT</b>	
<b>SYSTEM TYPE</b>	Monochrome Digital Multifunction Imaging System
<b>FUNCTIONS</b>	Standard: Copy, Print (UFR II LT), Scan
	Optional: Print (PCL, PostScript 3 Emulation), Send (Color Send, Searchable PDF), Fax
<b>OPERATION PANEL</b>	5.7" QVGA Black-and-White LCD Touch-Screen
<b>MEMORY</b>	Standard: 512MB RAM
	Maximum: 512MB RAM
<b>NETWORK INTERFACE CONNECTION</b>	Ethernet 10/100Base-TX
<b>OTHER INTERFACE</b>	Standard: USB 2.0 (Host)x1, USB 2.0 (Device)x1
	Optional: USB 2.0 (Host)x3 (USB Application 3-Port Interface Kit-A1), Serial Interface, Copy Control Interface
<b>COPY / PRINT SPEED (BW)</b>	Up to 25 ppm
	Legal: Up to 13 ppm
	11" x 17": Up to 15 ppm
<b>PAPER SOURCES (20 lb. Bond)</b>	Standard: Dual 550-sheet Paper Cassettes 100-sheet Stack Bypass
	Optional: Dual 550-sheet Paper Cassettes
	Maximum: 2,300 Sheets
<b>OUTPUT PAPER CAPACITY (20 lb. Bond)</b>	Standard: 250 Sheets (Inner Tray)
	Maximum: 1,100 Sheets (w/Inner Finisher-B1 and Inner Finisher Additional Tray-B1)
<b>OUTPUT PAPER SIZES</b>	Cassette 1/3/4: 11" x 17", Legal, Letter, Letter-R, Statement-R, Executive
	Cassette 2: 11" x 17", Legal, Letter, Letter-R, Statement-R, Executive, Envelopes (COM10 No.10/Monarch/DL/ ISO-B5/ISO-C5)*
	Bypass: 11" x 17", Legal, Letter, Letter-R, Statement-R, Executive, Envelopes (COM10 No.10/Monarch/DL/ISO-B5/ ISO-C5), Custom Size (3-15/16" to 11-11/16" x 5-7/8" to 17" [99mm to 297mm x 148mm to 432mm])

ACCEPTABLE PAPER WEIGHTS	Cassettes: 17 lb. Bond to 24 lb. Bond (64 to 90g/m <sup>2</sup> )
	Bypass: 17 lb. Bond to 34 lb. Bond (64 to 128g/m <sup>2</sup> )
SPECIAL MEDIA SUPPORT	Cassette 2: Envelopes
	Bypass: Transparencies, Labels, Envelopes
WARM-UP TIME	From Power On: 30 Seconds or Less
	From Sleep Mode: 1 Second or Less
POWER REQUIREMENTS	120V AC, 60Hz, 6.9A
PLUG	NEMA 5-15P
POWER CONSUMPTION	Maximum: 1,473W; Sleep Mode: 1W
DIMENSIONS (W X D X H)	35-1/4" x 22-1/4" x 27-1/4" (896mm x 565mm x 693mm) (with DADF)
	31-3/4" x 22-1/4" x 26-3/4" (806mm x 565mm x 680mm) (with Platen Cover)
INSTALLATION SPACE (WXD)	42-1/2" x 56-3/4" (1079mm x 1441mm) (with no optional equipment attached)
	54" x 56-3/4" (1371mm x 1441mm) (with optional Inner Finisher-B1 attached)
WEIGHT	Approximately 156 lb. (70.7kg) (Main Unit)**
	Approximately 172 lb. (78kg) (with DADF)**
<b>COPY SPECIFICATIONS</b>	
FIRST-COPY-OUT-TIME (Letter)	5.4 Seconds
MULTIPLE COPIES	1 to 999
COPY EXPOSURE	Automatic or Manual (9 Levels)
MAGNIFICATION	25% - 400% (1% Increments)
PRESET REDUCTIONS	25%, 50%, 64%, 73%, 78%
PRESET ENLARGEMENTS	121%, 129%, 200%, 400%
BASIC COPY FEATURES	Preset R/E Ratios by Area, Finishing, Two-sided, Exposure Adjustment, Original Type Selection
SPECIAL COPY FEATURES	ID Card Copy, Two-page Separation, Image Combination, Frame Erase, Different Size Original, Sharpness, Mode Memory, Booklet

<b>PRINT SPECIFICATIONS</b>	
PROCESSOR	Canon Custom Processor (Shared)
MEMORY	Standard: 512MB RAM
	Maximum: 512MB RAM
ENGINE RESOLUTION	1200 x 1200 dpi (Maximum)
PDL SUPPORT	Standard: UFR II LT
	Optional: PCL 5e/6, PostScript 3 Emulation
PRINT DRIVERS SUPPORTED OS	UFR II LT, PostScript 3 Emulation: Windows® (Windows 2000/XP/Vista®/ Windows 7/Server 2003/Server 2008), Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0, XenDesktop 2.0/2.1/3.0, Macintosh® (OS X 10.6.1), SAP (PS3 Only)
	PCL 5e/6: Windows (Windows 2000/XP/Vista/ Windows 7/Server 2003/Server 2008), Citrix Presentation Server 4.0/4.5, Citrix XenApp 5.0, XenDesktop 2.0/2.1/3.0, SAP
PRINT FEATURES	Watermark, Page Border, Header/Footer, Page Layout, Two-sided Printing, Collating, Booklet Printing, Grouping, Mixed Paper Sizes/Orientations, Offsetting, Printing on Transparencies, Front/Back Covers, Toner Reduction, Poster Printing, Generic PCL 6 Driver
<b>SCAN SPECIFICATIONS</b>	
NETWORK TWAIN SCAN	Standard
NETWORK SCAN UTILITY	Color Network ScanGear
<b>COLOR SEND SPECIFICATIONS</b>	
SENDING METHOD	E-Mail, I-Fax, File Server (FTP, SMB), Super G3 Fax (Optional)
COLOR MODE	Color, BW

SCAN RESOLUTION	600 x 600, 400 x 400, 300 x 300, 200 x 400, 200 x 200, 200 x 100, 150 x 150, 100 x 100
ADDRESS BOOK CAPACITY	Max. 500 Destinations (Includes 200 One-Touch Buttons)
COMMUNICATION PROTOCOL	File: FTP (TCP/IP), SMB (TCP/IP) E-Mail/I-Fax: SMTP, POP3, I-Fax (Simple)
FILE FORMAT	TIFF, JPEG, PDF, PDF (Compact), PDF (OCR)***
I-FAX DATA FORMAT	TIFF (MH)
<b>FAX SPECIFICATIONS</b> (Standard on "iF" models, optional for Base models)	
NUMBER OF CONNECTION LINES	1 (Maximum)
MODEM SPEED	Super G3: 33.6 Kbps G3: 14.4 Kbps
COMPRESSIONS METHOD	MH, MR, MMR, JBIG
RESOLUTION	400 x 400, 200 x 400, 200 x 200, 200 x 100
SENDING / RECORDING SIZE	Statement-R to 11" x 17"
FAX FEATURES	Job Forwarding, Different Size Originals, Sharpness, Delayed Send, Finished Stamp, Two-sided Original
<b>SECURITY SPECIFICATIONS</b>	
Department ID Management, User ID Management, IPv6, Restricting Features (Restricting the Send Function, Restricting New Addresses on Address Book, Address Book Password, Allow Fax Driver TX, Restrict Recall, Confirm Entered Fax Numbers, Restrict Sequential Broadcast), SNMPv1, MAC/IP Address Filtering, SMTP Authentication, POP Authentication before SMTP	
<b>ENVIRONMENTAL INFORMATION</b>	
ENERGY STAR® Qualified	
RoHS Compliant	
Ecomark	
Blue Angel	
WEEE Directive	

<b>CONSUMABLES</b>	
TONER	GPR-35 Toner
TONER YIELD (ESTIMATED @ 6% COVERAGE)	14,600 Copies/Bottle

## Router Specifications

<b>Network interface modules (NIM)</b>	3
<b>Maximum switched Ethernet LAN ports with PoE</b>	48
<b>EtherSwitch Service Module type (width)</b>	2 single or 1 double
<b>PoE support (wattage) without PoE boost</b>	500 W (with optional power supply redundancy)
<b>Intrusion prevention</b>	Yes
<b>Cisco Cloud Web Security</b>	Yes
<b>Form factor</b>	2 RU
<b>SSL VPN</b>	No
<b>Module online insertion and removal (OIR)</b>	Yes
<b>Power supply type</b>	Internal; AC, PoE or DC
<b>Maximum switched Ethernet ports</b>	48
<b>Hardware VPN acceleration (DES, 3DES, AES)</b>	No
<b>Redundant power supply</b>	Yes - Internal RPS
<b>Management port</b>	1 GE (Integrated Out of Band)
<b>PoE support (wattage) with PoE boost</b>	950 W (no power supply redundancy)
<b>Integrated Services Card (ISC) slots</b>	1 (PVDM 4)
<b>Server virtualization platform (UCS E-Series)</b>	2-core single-wide, 4-core single-wide, 4-core double-wide, 6-core double-wide, 8-core double-wide
<b>Enhanced Services Module (SM-X)</b>	2 single or 1 double-wide
<b>Identity-based networking</b>	No
<b>Zone-based firewall and NAT services</b>	VRF-Aware Firewall and Network Address Translation (NAT)
<b>USB Ports (type A)</b>	2
<b>Integrated WAN ports</b>	2 PoE GE / SFP; 2 GE / SFP
<b>Default/max DRAM</b>	4 GB / 16 GB
<b>Default/max Flash</b>	8 GB / 32 GB
<b>Performance</b>	1 Gbps upgradeable to 2 Gbps