

**BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY (BUET)
DHAKA**

TECHNICAL SPECIFICATION FOR SUPPLY AND INSTALLATION OF HIGH SPEED PHOTOCOPIER, SCANNER, BARCODE PRINTER, AND DIGITAL OSCILLOSCOPE, FOR THE DEPT. OF COMPUTER SCIENCE AND ENGINEERING, BUET UNDER THE HIGHER EDUCATION QUALITY ENHANCEMENT PROJECT (HEQEP) OF UGC.

NO: HEQEP/CP-3137/Procurement/PacakageG1/12-1-2015/001

Sl.	Item Name	Description	Q t y	Unit Cost (BDT)	Total Cost (BDT)	
1	Photocopier	Brand Name	To be mentioned by the bidder	1		
		Model	To be mentioned by the bidder			
		Country of origin	To be mentioned by the bidder			
		Physical Specifications:				
		Copying Process	Indirect electrostatic photographic method			
		Copying Type	Laser beam printing (Memory copy standard)			
		Copy/Print Resolution	Scanning: 600 dpi x 600 dpi Printing: 2,400 x 600 dpi with smoothing			
		Copy/Print Speed	Min. 25 cpm/ppm			
		Paper Capacity	Min 1,200 sheets, Drawer (around 550 sheets) x 2, Stack, Feed Bypass (around 100 sheets)			
		Max./Min. Paper Size	Drawer: A3/A5-R Stack Feed Bypass: A3/A5-R, Envelope (COM10, Monarch, DL, You-4, Chou-3)			
		Hard Disk Drive/Memory	Min. 320GB, Self Encrypting Drive (SED)/1GB			
		Warm-Up Time	Approx. 20 seconds			
		First Copy Out Time	Approx. 4-5 seconds			
		Duplex	Standard			

Reduction/ Enlargement	Around 25% to 400%
Power Consumption	Max. 1.5kW (220-240V), Super Sleep less than 1W
Printer/ Scanner Kit	Standard
External Interface Enabler	Standard
Print Specifications:	
Interface	Ethernet (10/100/1000BASE-T), USB 2.0/Hi Speed USB.
Printer Language	PCL5e/PCL6/PostScript3/PDF (emulation), XPS
Protocols	TCP/IP (v4/v6), IPX/SPX, NetBIOS, AppleTalk, EtherTalk, 9100, Raw Ports (16 configurable), LPR/LPD, IPP, WSPrint, FTP
Print Drivers	Universal, Postscript 3, XPS
Operating Systems	Windows Vista/7/8 (32/64 bit), Windows Server 2003/2008 (32/64 bit), Windows OS Terminal Edition, Citrix MetaFrame, UNIX, Linux, Solaris, HP-UX, SCO, AIX, CUPS, SAP® R3 (PCL), AS400 (WCO), MacOS 10.2.8/10.3.9/10.4.11/10.5.7/10.6.8/1 0.7/10.8
Scan Specifications :	
Scan Resolution	100 dpi, 150 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi
Scan Speed	57 spm (300 dpi, B/W), 43 spm (300 dpi, Color)
File Format	TIFF, PDF, XPS, Slim PDF, Secure PDF, JPEG
Authentication	LDAP, SMTP, Windows Domain, MFP
Fax Specifications:	
Compatibility	Super G3, G3
Modem Speed	Max. 33.6kbps
Data Compression	JBIG, MMR, MR, MH

		Method			
		Transmission Speed	Approx. 3 seconds per page		
		Memory Transmission	Max. 100 jobs 2,000 destinations, 400 destinations/job,		
		Scan Speed	0.7 seconds per page (A4)		
		Desktop Fax	Windows Server 2003/2008/Vista/7/8 (32/64bit)		
		Fax Routing	E - filing, Network Folder, Email, Searchable		
		Warranty	Min 1 year		
2	Bar Code Scanner	Brand name	Internationally reputed brand to be mentioned by the bidder	1	
		Model	To be mentioned by the bidder		
		country of Origin	To be mentioned by the bidder		
		Physical Characteristics:			
		Voltage and Current:	5 volts +/- 10% at 130 mA typical, 175 mA max		
		Power Source	Host power or external power supply		
		Performance Characteristics:			
		Scanner Type	Bi-directional		
		Light Source	650 nm visible laser diode		
		Scan Element Frequency	50Hz		
		Scan Rate	100 scans per second typical		
		Nominal Working Distance:			
		Print Contrast	20% minimum reflective difference		
		Roll (Tilt):	1 +/- 30 degrees		
		Pitch:	2 +/- 65 degrees		
		Skew (Yaw):	3 +/- 60 degrees		
		Decode Capability	UPC/EAN, UPC/EAN with Supplementals, UPC/, EAN 128, Code 39, Code 39 Full ASCII, Code 39 TriOptic, Code 128, Code 128 Full ASCII, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, IATA, GS1 DataBar (formerly RSS) variants, Chinese 2 of 5		
		Interfaces Supported	USB, RS232, Keyboard Wedge, IBM 468x/9x		

		User Environment			
		Drop Specifications	Unit functions normally after repeated, 5 ft./1.5 m drops to concrete		
		Electrostatic Discharge:	Around 15 kV air discharge and 8 kV of contact discharge		
		Regulatory			
		Electrical Safety	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950		
		EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA, Taiwan EMC, Japan VCCI/ MITI/ Dentori.		
		Laser Safety	CDRH Class II, IEC Class 2		
		Environmental	Compliant with RoHS directive 2002/95/EEC		
		Warranty	3 years		
3	Bar Code printer	Brand Name	Internationally reputed brand to be mentioned by the bidder	1	
		Model	To be mentioned by bidder		
		Country of Origin	To be mentioned by bidder		
		Print:			
		Printing method	Direct Thermal Printing Thermal Transfer Printing		
		Printing speed (203DPI)	Max.178 mm/s, 7ips		
		Printing speed (300DPI)	Max.127 mm/s, 5ips		
		Printing Width	Max.108 mm		
		Printing length	6 ~ 1,000mm		
		Paper:			
		Types	Gap, Notch, Black Mark, Continuous, Fan-Fold		
		Roll (wide)	25 ~ 116mm		
		ID	25.4 ~ 38.1mm		
		OD	130mm		
		Thickness	0.08 ~ 0.20 mm		
		Supply Method	Easy Paper Loading		
		Ribbon:			

Width	110mm
Length	300mm
Core (I.D)	25.4m
Type	Outside
Interface:	Serial +Parallel + USB V2.0HS
CPU:	32 bit core processor
Memory:	
Flash	Min 128MB
RAM	Min 64MB DDR2
Sensor	GAP, Black Mark, Cover Open
Language	SLCS, BPL-ZTM, BPL-ETM
Character Set	Extended Characters Page(128 × 23), Resident bitmap, Fonts(10), True Type Font, Unicode
Bar Codes:	
1D	Industrial 2-of-5, Interleaved 2-of-5, Log mars, MSI, Plessey, Post net, RSS-14 (limited, truncated, stacked), Standard 2-of-5, UPC-A, UPC-A and UPC-E with EAN 2 or 5 digit extensions, UPC-E, Code 128 with subsets A/B/C, UCC/EAN-128, UPC-A with 2 or 5 digit extensions, UPC-A and UPC-E with 2 or 5 digit extensions, EAN-8 and EAN-13, Japanese Post net, MSI-3, German Post Code
2D	Coda block, Code49, Data Matrix, Maxi code, Micro PDF417, PDF417, QR Code, RSS/GS1 Data Bar Family, Aztec
Auto Cutter:	
Cutting Method	Guillotine cutter, Full with options of User/Factory
Power Supply:	VDC/A : 24V / 2.5A
Button/LED:	2 Button/ 2 LED for Pause, Feed/Cancel
Weight(Set)	Around 2.5 - 3 Kg
Size	Around 214 x 310 x 195 mm (W x D x H)
Warranty	Min 1 year

4	Digital Oscilloscope	Brand Name	Internationally reputed brand to be mentioned by the bidder									
		Model	To be mentioned by bidder									
		Country of Origin	To be mentioned by bidder									
		Model	Internationally reputed brand to be mentioned by the bidder									
		Bandwidth	Min. 100 MHz									
		Analog Channels	Min. 2									
		Vertical Sensitivity	Min. 2 mV/div - 10V/div									
		Real-time Sample Rate	1 GSa/s (each channel), 500 MSa/s (dual channels)									
		Equivalent Sample Rate	25 GSa/s									
		Memory Depth	Mode	Capture Rate	Common	Long Memory						
			One Channel	1 GSa/s	16 kpts	N/A						
				500 MSa/s	16 kpts	1 Mpts						
			Dual Channel	500 MSa/s	8 kpts	N.A.						
				250 MSa/s	8 kpts	512 kpts						
		Standard Interface	USB Host & Device, RS-232, P/F Out									
		Vertical Resolution	8 bits									
Math	+, -, ×, FFT											
Max Input Voltage	All inputs 1MΩ 15pF 300 V RMS CAT I											
Cursor Measurement	Manual, Track and Auto Measure modes											
Warranty	Min 1 year											
5	Laptop	Brand Name	Internationally reputed brand to be mentioned by the bidder				1					
		Model	To be mentioned by bidder									
		Country of Origin	To be mentioned by bidder									
		Processor	1.4GHz dual-core Intel Core i5 (Turbo Boost up to 2.7GHz)									

	Cache	Minimum 3MB Shared L3 Cache		
	Memory	Minimum 4GB of 1600MHz LPDDR3 onboard memory		
	Hard Drive	128GB PCIe-based flash storage		
	Graphics	Intel HD Graphics 5000		
	Display	13.3-inch LED-backlit (1440 by 900 pixels)		
	Webcam	720p FaceTime HD camera		
	Audio	Stereo speakers, Dual microphones, Headphone port		
	Bluetooth	Bluetooth 4.0 wireless technology		
	Wireless	802.11n Wi-Fi wireless networking IEEE 802.11a/b/g/n compatible		
	Connector Interface	Two USB 3.0 ports, Thunderbolt port, Headphone jack		
	Card Slot	SDXC card slot		
	AC Adapter	45W MagSafe 2 Power Adapter with cable management; MagSafe 2 power port		
	Operating System	Mac OS X Yosemite		
	Network Interface	High quality USB Ethernet Adapter		
	Carry Case	One Carry Case		
	Warranty	1 Year for all Parts and Service		
	Estimated Price	BDT. 1,05,400.00		

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&
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