


Technical Specifications

Procurement of Equipment and All Accessories for Digital Multipurpose Language cum ICT Lab with complete installation and supply of laptop for departments.

Technical Specification and standard required

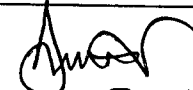
1. Laptop

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer. The brand must be in Leaders quadrant of Gartner Magic Quadrant for Global Enterprise Desktop and Notebook, 2019 or later, to be mentioned by the Tenderer.	
2	Model	Business series, To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Processor	Intel Core i5 10th Gen or higher / AMD Ryzen 5 4000 Series or higher; 4 Cores, 8 Threads, or higher;	
6	CPU Clock Speed	Base frequency 1.6 GHz or higher;	
7	Level 3 Cache	6MB or higher	
8	Memory	8GB DDR4 2666Mhz or higher	
9	Graphics	Intel UHD / AMD Radeon / NVIDIA GeForce, Dedicated Graphics Memory: 2GB or higher,	
10	Storage	256GB PCIe NVMe M.2 SSD (boot drive with factory loaded windows 10) + 1TB 5400rpm or higher SATA HDD	
11	Display	14 inch or less, anti-glare, non-touch, 220 nits or higher, LED-backlit, resolution 1366 x 768 or higher	
12	LAN	Integrated Gigabit Ethernet	
13	Wi-Fi	Integrated Dual Band Wireless 802.11 ac	
14	Bluetooth	Integrated Bluetooth 5.0 or higher	
15	Webcam	Integrated HD webcam, 720p or higher	
16	Audio & Speaker	HD Audio, Dolby Audio, stereo speakers and dual microphone array	
17	I/O Connector	2 x USB 3.1 or higher, 1 x USB 3.1 or higher Type-C (Power delivery, DisplayPort), 1 x RJ-45, 1 x HDMI, 1 x Card reader, 1 x headphone/microphone combo jack;	
18	Touchpad	Click pad with multi-touch gesture support	
19	Keyboard	6-row, spill-resistant, Fn keys, backlit	
20	Battery	Minimum 3-cell, 45 Whr Lithium Ion Battery, Standard backup time minimum 6 hrs.	

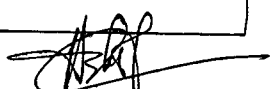


তপন কুমার সাহা-০০৭৪২৬
সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
সরকারি বি.এম. কলেজ, বরিশাল।

Page 3 of 15



Abdu Samad
Id No: 013009
Associate Professor Accounting
Govt Barishal College, Barishal.

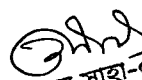


Md. Shiful Alam
ID No. 0022420
Assistant Professor, Marketing
Barisal Govt. College, Barisal


21	Security Feature	Finger Print reader, TPM 2.0 , Security slot lock, BIOS level Secure erase	
22	Operating System:	Factory loaded genuine Windows 10, 64-bit with license	
23	Antivirus	Pre-Installed antivirus, to be mentioned by the tenderer with license for 3 years or higher,	
24	Certification	ENERGY STAR certified and EPEAT registered	
25	Power Adapter	45-watt or higher AC Adapter with standard Power Cord	
26	Color	Silver/Aluminum/Black/space gray/blue	
27	Weight	Maximum 1.7 kg	
28	Manufactured and Assembled by	OEM assembled, shall have OEM Service Tag	
29	Accessories	a. Original OEM business Backpack b. External wireless optical Mouse	
30	Certificate	Manufacturer authorization letter and warranty certificate, without which tender will be invalid.	
31	Warranty	2 Years full Manufacturer's warranty.	

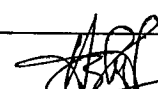
2. Desktop

Sl. No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer. The Brand must be in Leaders quadrant of Gartner Magic Quadrant for Global Enterprise Desktop and Notebook, 2019 or later, to be mentioned by Tenderer.	
2	Model	Business series, To be mentioned by the tenderer	
3	Country of Origin	To be mentioned by the tenderer	
4	Country of Manufacture	To be mentioned by the tenderer	
5	Form factor:	Micro or Mini Tower Desktop	
6	Processor	Intel Core i5 10th Gen or higher / AMD Ryzen 5 5000 Series or higher; 6 Cores, 12 Threads, or higher;	
7	CPU Clock Speed	Base frequency 3.0 GHz or higher	
8	Level 3 Cache	12 MB or higher	
9	Memory	16 GB DDR4 2666Mhz or higher	
10	Storage	256GB PCIe NVMe M.2 SSD (boot drive with factory loaded windows 10) + 1TB 7200rpm or higher SATA HDD	
11	Graphics	Intel UHD / AMD Radeon / NVIDIA GeForce, Dedicated Graphics Memory: 2GB or higher,	
12	Optical Drive	DVD+/-RW Drive	
13	LAN	Gigabit Ethernet	
14	Wi-Fi	Dual Band Wireless 802.11 ac	
15	Bluetooth	Bluetooth 5 or higher	
16	Ports	2 x USB 3.1 or higher (front), 2 x USB 3.1 or higher (rear), 1 x HDMI, 1 x HDMI/VGA/DP, 1 x RJ-45, 1 x Audio-in and out / Combo (rear), 1 x headphone/microphone combo jack (front);	


 তপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এন. কলেজ, বরিশাল।

Page 4 of 15


 Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.


 Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal

17	Security	Trusted Platform Module (TPM) 2.0	
18	Internal Speaker:	2 W or higher, with high definition audio supports	
19	Operating System:	Factory loaded genuine Windows 10 Pro, 64-bit with license	
20	Antivirus	Pre-Installed antivirus, to be mentioned by the tenderer with license for 3 years or higher,	
21	Power supply Unit	260 W or less	
22	Energy efficiency compliance:	ENERGY STAR certified and EPEAT registered	
23	Chassis:	Original OEM Metal Chassis with OEM Logo Ambushed.	
24	Manufactured and Assembled by	OEM assembled, shall have OEM Service Tag	
25	Monitor	Same Brand 21.5 Inch, FHD, widescreen, 1920 x 1080, anti-glare, 250 nits display. Model: to be mentioned by the tenderer.	
26	Keyboard	Same Brand USB Keyboard.	
27	Mouse	Same Brand USB Optical Mouse.	
30	Certificate	Manufacturer authorization letter regarding warranty without which tender will be invalid.	
31	Accessories	AC Power cord for CPU, Monitor Power cord, Adapter, HDMI/VGA/DP cable for monitor.	
32	Warranty	2 Years full Manufacturer's warranty.	

3. Workstation

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer. The Brand must be in Leaders quadrant of Gartner Magic Quadrant for Global Enterprise Desktop and Notebook, 2018 or later, to be mentioned by Tenderer.	
2	Model	Workstation Series, To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Processor	Intel Xeon, 6 Core Processor or Higher	
6	CPU Clock Speed	2.1 GHz or higher	
7	Level 3 Cache	10 MB or higher	
8	Memory	16GB DDR4, 2666MT/s, Minimum RAM Slot 4 and upgradable to 64GB (min)	
9	Storage	Hot Swappable minimum 4 x HDD Bay; 2 TB (500 GB x 4), 15K RPM SAS Drive	
10	Graphics	Integrated Matrox G200 or Higher	
11	Optical Drive	DVD+/-RW Drive	
12	Network	Dual Port Gigabit Ethernet Adapter	
13	Ports & Connectivity	1 x VGA, 2 x 1GbE, 4 x USB 3.0	
14	Power supply Unit	Dual (1+1) Redundant Hotplug, 750 watt or less	
15	Chassis	Original OEM Chassis with OEM Logo Ambushed, Form factor: Tower	

তপন কুমার সাহা-০০৭৪২৬
সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
সরকারি বি.এম. কলেজ, বরিশাল।

Page 5 of 15

Abdus Samad
Id No: 013009
Associate Professor Accounting
Govt Barisal College, Barisal.

Md. Shiful Alam
ID No. 0022420
Assistant Professor, Marketing
Barisal Govt College, Barisal

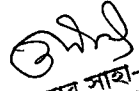
16	Color	Black	
17	Operating System:	Factory loaded genuine Windows server 2019 or higher with license	
18	Antivirus	Pre-Installed antivirus, to be mentioned by the tenderer with license for 3 years or higher,	
19	Manufactured and Assembled by	OEM assembled, shall have OEM Service Tag	
20	Monitor	Same Brand 21.5 Inch, FHD, widescreen, 1920 x 1080, anti-glare, 250 nits display. Model: to be mentioned by the tenderer.	
21	Keyboard	Same Brand USB Business Keyboard, Color: Black	
22	Mouse	Same Brand USB Optical Mouse, Color: Black	
23	Certificate	Manufacturer authorization letter regarding warranty without which tender will be invalid.	
24	Accessories	AC Power cord for CPU, Monitor Power cord/Adapter, Display cable.	
25	Warranty	2 Years full Manufacturer's warranty with all spare parts & service.	

4. Webcam

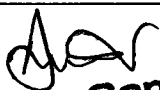
Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer.	
2	Model	Webcam Series, To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Interface	USB 2.0 or higher	
6	Video Resolution	Full HD 1080p or higher	
7	Sensor Resolution	2MP or higher	
8	Microphone	Integrated	
9	Viewing Angle:	Wide 75 Degrees or higher,	
10	Focus Type:	Auto Focus	
11	Focus Range	10cm and Beyond	
12	Frame Rate	30fps	
13	Color	Black	
14	Operating System Supports	Windows 10 and windows Server 2019	
15	Warranty	2 Years	

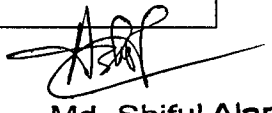
5. Headphone

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	


 তপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল।

Page 6 of 15



Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.


Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal


4	Country of Origin	To be mentioned by the tenderer	
5	Connectivity	Wired or Wireless, to be mentioned by the tenderer	
6	Frequency Response	20Hz - 20KHz	
7	Sensitivity	105dB or less	
8	Impedance	32ohm or less	
9	Microphone	Omni-Directional Noise-Canceling Microphone	
10	Feature	High Performance, Stereo Sound, Adjustable Headband, Superior Ear Cushions,	
11	Controller	Volume knob and Mic	
12	Color	Black	
13	Operating System Supports	Windows 10 and windows Server 2019	
14	Warranty	2 Years	

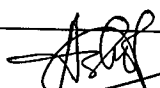
6. Classroom Manager Software

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer.	
2	Model / Version / Part Number	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Operating System Supports	Windows 10 and windows Server 2019	
6	Device management	<ul style="list-style-type: none"> Monitor student activities, evaluate progress and provide supportive feedback. Capture and review student's work, chats, and websites visited Take remote control of connected PCs via the user-friendly technician console Start/stop student computers to conserve power and manage student printing Restrict website and application usage; limit external device use to prevent viruses 	
7	Collaboration	<ul style="list-style-type: none"> Share documents, messages, and websites seamlessly Use group chats to support project based learning Give control to students to present their work from their device 	
8	Educator tools	<ul style="list-style-type: none"> Evaluate student work in real-time and provide assessments to gauge understanding. Deploy game show-style Question and Answer quizzes Create tests with audio and video files Track student responses and scores to instantly assess comprehension 	
9	Teacher Console	1. Lock: Ensure student focus by locking student screens.	


 তপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল।


Page 7 of 15



Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.


Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal

		<p>2. Unlock: Control when you allow students to access their devices.</p> <p>3. Blank All: Easily clear all students' devices with a click.</p> <p>4. Message: Send messages from the teacher device to one, or all student devices selected.</p> <p>5. Help Requests: Students can discreetly alert the teacher when they require assistance.</p> <p>6. Student Screen Monitoring: View all student screens from the teacher PC. Double-click to easily take control.</p> <p>7. Q&A: The Question and Answer (Q&A) mode enables the teacher to conduct both individual student and peer assessment. Scores.</p> <p>8. Web Launch: Remotely launch a selected website on student devices.</p> <p>9. File Transfer: Teacher can quickly transfer files to one or multiple students.</p> <p>10. Chat: Initiate teacher-to-student and student-to-student chat sessions.</p>	
10	Windows Student Functionality	<p>Group chat, Individual chat, Student to student chat, student help request, Monitor class real-time with thumbnail view of student screens, Zoom in on student screens, Broadcast teacher desktop, Survey students, Graphically display student survey results, Question & Answer mode, Test console, Audio recording, Lock computers, Restrict internet access, Launch and close websites on student computers, Internet co-browse, Launch and restrict applications, Keyboard monitoring, Audio monitoring, Interactive whiteboard, Designate a student leader, Student history, File distribution to PCs , Lesson planner, Power on/off, log in/log off all PCs</p>	
11	Installation requirement	<p>Teacher PC – 1 Student PC - 26 Supplier shall install the software in workstation server and configure the software for classroom manager with the one teacher PC and 26 student PC.</p>	
12	Software license	One time perpetual license for the life time.	
13	Manufacturer authorization letter	Required	
14	Support and maintenance	2 years	

7. Interactive Flat Panel



 তপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল।


Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.

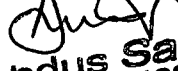


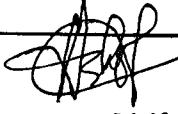
Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal

Sl. No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	Internationally reputed brand, to be mentioned by the Tenderer.	
2	Model	Education IFP, To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Screen Size	65"	
6	Light Source	Direct LED	
7	Display Orientation	Landscape	
8	Resolution (pixel)	UHD 3840 x 2160	
9	Aspect Ratio	16:9	
10	Brightness (typical) (nits; cd/m2)	350	
11	Contrast Ratio (typical)	5000: 1	
12	Response Time (ms)	8.5	
13	Frame Rate	60Hz	
14	Viewing Angle	178 degree (H) / 178 degree (V)	
15	Panel Surface	AG, Haze 2%	
16	Tempered Glass (Thickness, Mohs scale)	4 mm, 7H	
17	SOC	Dual core A73+Dual core A53/ 1.5GHz	
18	GPU	Mali-G51MP4	
19	System Memory	4GB	
20	Storage	32GB	
21	OS	Android 8.0	
22	Voltage	100V~240V, 50-60Hz	
23	Maximum (Watt)	350W	
24	Touch Technology	IR, 20 points	
25	Accuracy	±1.0mm	
26	Touch Output	x2 (USB type B)	
27	Operation Temp (°C)	0°C ~ 40°C	
28	Operating Humidity	10% ~ 90% RH Non-Condensing	
29	Internal Speaker	16Wx2	
30	VGA	x1	
31	HDMI Input/Output	x3 (2.0) / x1 (2.0)	
32	PC Audio Input (3.5mm)	x1	
33	Line in/out (3.5mm)	x1 / x1	
34	RJ45 Port	x1	



 তপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল।

Page 9 of 15



 Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.

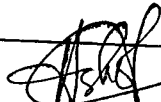

 Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal

35	USB (Type A)	x5 (2.0 x 2; 3.0 x 3)	
36	USB (Type B)	x2	
37	RS232 Input	x1	
38	OPS slot	x1	
39	Power (AC) Input/Switch	x1 / x1	
40	Housing Material	Metal	
41	Housing Color	Black	
42	Wall Mounting (VESA) (mm)(Screw type /Max. length)	400 x 200 (4 holes); 4 - M8 x 25L	
43	Pen Tray	x1	
44	Handle	x2	
45	OSD / Quick Start Guide / User's Manual	English	
46	Remote Controller	x1	
47	PWR Cord (by region)	x1	
48	VGA / HDMI / USB(for touch) Cable	x1(5m) / x1(5m) / x1(3m)	
49	Quick Start Guide in box	x1	
50	User's Manual (electronic file)	x1	
51	Warranty card (by region)	x1	
52	Stylus	X4 (2 narrow and 2 thick)	
53	Wall Mount (with shipment)	x1	
54	OPS PC Module	x1 OPS PC Module: OS: Genuine Microsoft Windows 10 with License CPU: Intel Core i5 8500 or higher; Graphics: Intel UHD RAM: 8 GB or higher SSD: 256 GB NVMe M.2 or higher (boot drive for windows 10) HDD: SATA 500 GB 5400 rpm or higher	
55	LAN:	Gigabit Ethernet (auto connect when switch to windows or android),	
56	Wi-Fi:	Dual Band Wireless 802.11 b/g/n/ac, 2.4 GHz + 5 GHz	
57	Bluetooth:	Bluetooth 4.2 or higher	
58	Remote Control:	Remote controller with operational functionality including system turned on and off.	
59	Manufactured and Assembled by:	OEM assembled, shall have OEM Service Tag.	
60	Manufacturer authorization letter	Required	
61	Certification:	CE/FCC certified.	
62	Keyboard & Mouse:	Standard wireless keyboard and mouse. Brand and Model to be mentioned by the tendered.	
63	Webcam with	Full HD 1080p USB webcam with integrated dual	


 ডপন কুমার সাহা-০০৭৪২৬
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল

Page 10 of 15

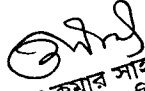

Abdus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal


Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal


	Microphone:	microphone, to be placed on top of the panel for video conferencing use. Brand and Model to be mentioned by the tendered.	
64	Visualizer (Document Camera) Module:	Function: Document Scan, Upload & Annotation through the visualizer application software (pre-installed with license). Camera Technology: CMOS Resolution: 5.0 Mega pixels or higher Scan Size: A4 Scan object: File, document, books, text, real object, etc. Light Resource: High brightness LED, natural light	
65	Screen Share software with license	Pre-installed "Screen Share Pro" application with perpetual license. Shall support screen sharing between IFP and other devices (Mobile/Tab/Laptop/Desktop) within the same network using Screen Share Pro client application at each device (Windows, Mac, iOS, Android, Chrome). Supports six devices to simultaneously project screens simultaneously on the panel with remote control function. Supports in-app device management, authorization control for device connections.	
66	Whiteboard application for Android with license:	Whiteboard application for Android with license: to be mentioned by the tenderer. The application should have drawing tools including planets, formula, functions, geometry and ruler. Can upload notes to cloud (Google Drive, One Drive, etc.). Shall support 2 handwriting with 2 colors at same time.	
67	Whiteboard application for Windows with license:	Whiteboard application for Windows with license: to be mentioned by the tenderer. Application functionalities like android "note" application, additional features with rich educational resource (Math, physics, geography, etc.).	
68	Interactive Class Taking Application with license:	Interactive Class Taking Application with license: to be mentioned by the tenderer. The app enables interaction between teacher and students, features include voting for answer, testing with randomly selected questions, live commenting, etc.	
69	Screen Recording Application (with license)	Screen Recording Application (with license) with editing functionalities.	
70	Antivirus:	Antivirus and Security Protection application with license for 2 years for both Android and Windows, to be mentioned by the tenderer.	
71	Dust Cover:	tenderer shall have to provide a dust cover for the Panel. Cover materials and design to be confirmed and approved by the Procuring Entity.	
72	User Training:	tenderer shall provide at least 2 days user training after delivery & installation at delivery location as per Procuring Entity's training guideline. A comprehensive training manual shall have to be provided by the tenderer.	
73	Warranty Service:	2 (Two) years full manufacturer's/ supplier's warranty with service & spare parts. Shall provide the Warranty Card with the product at delivery.	

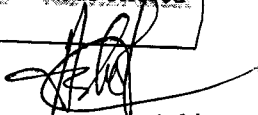
8. UPS 1000 VA

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered
--------	---------------------------------	---------------------------------------	--


 Abhishek Kumar সাহা-009823
 সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
 সরকারি বি.এম. কলেজ, বরিশাল।

Page 11 of 15


Abudus Samad
 Id No: 013009
 Associate Professor Accounting
 Govt Barishal College, Barishal.


Md. Shiful Alam
 ID No. 0022420
 Assistant Professor, Marketing
 Barisal Govt College, Barisal

			by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	UPS	
6	Capacity	1000 VA or higher	
7	Input Voltage:	160V ~ 270V AC, 50Hz	
8	Output Voltage:	220V AC, 50Hz	
9	Battery:	2 x Sealed, maintenance-free lead acid batteries for 15 minutes or higher with full load.	
10	Protection:	Automatic self-test, over discharge protection, short circuit protection, automatic shutdown at Overload, Spike Protection, etc.	
11	Indicator:	AC mains, Charging, Back Up.	
12	Color:	Black	
13	Warranty:	1 (one) year full manufacturer's/supplier's warranty with service & spare parts. Shall provide the Warranty Card with the product.	

9. UPS 1500 VA

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	UPS	
6	Capacity	1500 VA or higher	
7	Input Voltage:	160V ~ 270V AC, 50Hz	
8	Output Voltage:	220V AC, 50Hz	
9	Battery:	2 x Sealed, maintenance-free lead acid batteries for 15 minutes or higher with full load.	
10	Protection:	Automatic self-test, over discharge protection, short circuit protection, automatic shutdown at Overload, Spike Protection, etc.	
11	Indicator:	AC mains, Charging, Back Up.	
12	Color:	Black	
13	Warranty:	1 (one) year full manufacturer's/supplier's warranty with service & spare parts. Shall provide the Warranty Card with the product.	

10. Gigabit Network Switch

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer

তপন কুমার সাহা-009826
সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
সরকারি বি.এম. কলেজ, বরিশাল।

Page 12 of 15

Abdus Samad
Id No: 013009
Associate Professor Accounting
Govt Barishal College, Barishal.

Md. Shiful Alam
ID No. 0022420
Assistant Professor, Marketing
Barisal Govt College, Barisal

1	Brand	Internationally reputed Brand, to be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	Gigabit Ethernet Switch	
6	Form Factor	Rack-Mount	
7	Number of Ports	24 x 10/100/1000 Mbps RJ-45 Ethernet ports (copper)	
8	Connector Type	Metal	
9	Switch Housing	Metal	
10	Power	AC: 110-240V, 50Hz	
11	Operating Temperature	0 to 40°C	
12	Operating Humidity	20% to 80%	
13	Warranty	2 years	

11. 9U Network Rack

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	Glass Door Wall Mount Rack	
6	Form Factor	9U, 19" cabinet	
7	Front Door	Toughened Glass	
8	Material	Metal structure, removable side panels with cam lock, cable entry on both of top cover and bottom panel	
9	Color	Black	
10	PDU	1 x 6 port	
11	Cooling Fan	2	
12	Earthing ground kit	Required	
13	Warranty	1 years	

12. UTP Cat-6 Network Cable

Sl No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	

তপন কুমার সাহা-০০৭৪২৬
সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
সরকারি বি.এম. কলেজ, বরিশাল

Abdus Samad
Id No: 013009
Associate Professor Accounting
Govt Barishal College, Barishal

Md. Shiful Alam
ID No. 0022420
Assistant Professor, Marketing
Barisal Govt College, Barisal

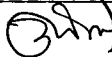
4	Country of Origin	To be mentioned by the tenderer	
5	Type	4 Pair CAT-6 Network Cable	
6	Length	305 Meter	
7	Cable Shielding	UTP (Unshielded Twisted Pair)	
8	Color	Blue/Gray/Orange/Green, to be mentioned by the tenderer	
9	Warranty	1 years	

13. Faceplate with Modular


Sl. No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	Face Plate (Double Port)	
6	No. of Ports	Double Port	
7	Modular Jack	2 x Cat-6 Modular Jack	
8	Color	White	
9	Warranty	1 years	

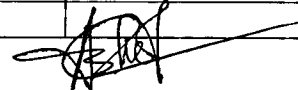
14. RJ-45 Connector

Sl. No.	Name of Item or Related Service	Technical Specification and Standards	Full Technical Specification and Standards offered by the Tenderer
1	Brand	To be mentioned by the Tenderer.	
2	Model	To be mentioned by the tenderer	
3	Country of Manufacture	To be mentioned by the tenderer	
4	Country of Origin	To be mentioned by the tenderer	
5	Type	CAT-6RJ-45 Connector	
6	Color	White	
7	Warranty	1 years	


Tapon Kumar Saha
Associate Professor, Accounting
Govt. BM College, Barishal
Member,
Official Cost Estimate Committee

তপন কুমার সাহা-০০৭৪২৬
সহযোগী অধ্যাপক, হিসাববিজ্ঞান বিভাগ
সরকারি বি.এম. কলেজ, বরিশাল।


Abdu Samad
Associate Professor, Accounting
Govt. Barishal College, Barishal
Chairman,
Official Cost Estimate Committee
Abdu Samad
Id No: 013009
Associate Professor Accounting
Govt Barishal College, Barishal


Md. Saiful Alam
Assistant Professor, Marketing
Govt. Barishal College, Barishal
Members Secretary,
Official Cost Estimate Committee

Md. Shiful Alam
ID No. 0022420
Assistant Professor, Marketing
Barisal Govt College, Barisal.