Technical Specification for Laptop (15 Ps)	
Item Description	**Specification**
Brand	Any reputed international brand
Model	To be mentioned by the bidder
Country of Origin	To be mentioned by the bidder
Country of Manufacture	To be mentioned by the bidder
Processor	11th Generation Intel Core i7-1165G7
Clock Speed	2.8 GHz or Higher
Chipset	Intel® Chipset
Memory	16GB DDR4 3200 MHz DDR4 RAM up to 32GB (Extra Ram Slot Available)
Storage	1TB Hard disk Drive with 256GB M.2 SSD
Graphics	Nvidia GeForce MX230 w/2GB GDDR5
Display	15.6-inch, FHD 1920 x 1080, 60 Hz, anti-glare, 100% sRGB, 250 nits, wide-viewing angle
Adapter	65-Watt AC adapter
Battery	3 cell 41 WHr6 Polymer Capable Battery
Operating System	Microsoft Windows 10 Preloaded
Networking	Lan: 1 x RJ45 (Gigabit); Wi-Fi: Intel® AX201, 2x2 MIMO, 2.40 Gbps, 2.40 Ghz/5 GHz, Wi-Fi 6 (WiFi 802.11ax), Bluetooth 5.1
Touchpad	New touchpad (Feels as good as it looks) Single Pointing Spill Resistant Non-Keyboard
Bluetooth	Bluetooth 5.1
Audio	Universal Audio Jack with High quality speakers
Webcam	User-Facing: FHD Webcam
Ports & Connectors	1 USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery (10th Generation Intel® processors only) 1 USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery (11th Generation Intel® processors only) 1 USB 3.2 Gen 1 port, 1 USB 3.2 Gen 1 port with Power Share 1 USB 2.0 port, 1 HDMI 1.4a port 1 RJ-45 Ethernet port, 1 Universal audio port 1 barrel power adapter port 1 External uSIM card tray (optional): eSim capable 1 microSD 3.0 card slot, 1 wedge-shaped lock slot
Security	Dedicated TPM Security Chip with TCG Certified
Weight	Not More Than 1.80 kg
Bundled Accessories	Same Brand Original Backpack with Mouse
Operating System	Windows 10 Home/pro preloaded activated
Certification	Laptop Should be ISO and FCC certified
Warranty	3 years Comprehensive Warranty Including Parts, Labor and Services with effect from Operational acceptance. OEM should have legal Office in Bangladesh and there should be a toll-free number from OEM for after sales service.

Technical Specification for Heavy-duty Network Printer (01 Ps)	
Features	**Tender Specification**
Brand	Any reputed international brand
Model	To be mentioned by the bidder
Country of Origin	To be mentioned by the bidder
Country of Manufacture	To be mentioned by the bidder
Type	Desktop/ Optional Console by factory made metal pedestal
Copy /Print Speed	Minimum 35 ppm in A4
Maximum Original Size	A3
Control Panel	Minimum 10" TFT LCD WSVGA Color Touch panel
First Copy Time (A4)	Maximum 4 seconds or less
Warm-up Time	Maximum 25 Seconds or Less
Standard Paper Capacity	Minimum Standard: 1200 sheets; Cassette1: 550sheets, Cassette 2: 550sheets, Stack Bypass: 100 sheets
Memory	Minimum 2 GB Standard
HDD	Minimum 320 GB (Available Disk Space: 250GB)
Multiple Copies Prints	Minimum up to 5,000 Copies
Resolution (dpi)	Minimum Copy: 600 x 600 Print: 1,200 x 1,200
Magnification	Variable zoom: 25% - 400% (1% Increments) Preset reduction/enlargement: 25%, 50%, 61%, 70%, 81%, 86%, 100% (1:1), 115%, 122%, 141%, 200%, 400%
Duplex	Automatic
ADF	yes
Document Feeder	Optional: Minimum Capacity 100 sheets
Interface Connection	1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n), USB 2.0 x 1 (Host), USB 3.0 x 1 (Host), USB 2.0 x 1 (Device)
Send Destination	E-mail/ Internet FAX (SMTP), SMB 3.0, FTP, WebDAV, Mail Box
Authentication	User Authentication (Picture Login, Picture and PIN Login, Username and Password Login, Function Level Login, Mobile Login), Department ID Authentication (Department ID and PIN Login, Function Level Login), Access Management System (Access Control)
Toner Yield	Minimum 40,000 pages in A4 (6% Coverage)
Drum Yield	Minimum 275,000 pages in A4
Power Supply	To be mentioned by the bidder
Power Consumption	To be mentioned by the bidder
Warranty	3 years

Technical Specification for Printer (04 Ps)	
Features	**Tender Specification**
Brand	Any reputed international brand
Model	To be mentioned by the bidder
Country of Origin	To be mentioned by the bidder
Country of Manufacture	To be mentioned by the bidder
Type	Desktop
Copy /Print Speed	Minimum 20 ppm in A4
Maximum Original Size	Legal
Warm-up Time	Maximum 60 Seconds or Less
Standard Paper Capacity	Minimum Standard: 500 sheets; Cassette1: 500sheets,
Multiple Copies Prints	Minimum up to 1,000 Copies
Resolution (dpi)	Minimum Copy: 600 x 600 Print: 1,200 x 1,200
Magnification	Variable zoom: 25% - 400% (1% Increments) Preset reduction/enlargement: 25%, 50%, 61%, 70%, 81%, 86%, 100% (1:1), 115%, 122%, 141%, 200%, 400%
Duplex	Automatic
Document Feeder	Optional: Minimum Capacity 100 sheets
Interface Connection	1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n), USB 2.0 x 1 (Host), USB 3.0 x 1 (Host), USB 2.0 x 1 (Device)
Send Destination	E-mail/ Internet FAX (SMTP), SMB 3.0, FTP, WebDAV, Mail Box
Authentication	User Authentication (Picture Login, Picture and PIN Login, Username and Password Login, Function Level Login, Mobile Login), Department ID Authentication (Department ID and PIN Login, Function Level Login), Access Management System (Access Control)
Power Supply	To be mentioned by the bidder
Power Consumption	To be mentioned by the bidder

Technical Specification for Professional Video Camera (01 Ps)	
Features	**Tender Specification**
Brand	Any reputed international brand
Model	To be mentioned by the bidder
Country of Origin	To be mentioned by the bidder
Country of Manufacture	To be mentioned by the bidder
Product type	4K Professional LIVE STREAMING Camcorder
Image Sensor	1/2.5-type (inch) MOS Sensor
Effective Pixels	8.29 megapixels
F Value	F1.8 — 4.0
Optical Zoom	24x
Focal Length	4.12 — 98.9mm
35 mm Film Camera Equivalent	25.0 — 600.0 mm
Filter Diameter	62 mm
Lens Brand	Leica Dicomar Lens
Minimum Illumination	1.5 lx (F1.8, Super Gain +, 1/30)
Focus	Auto / Manual
Intelligent Zoom OFF	24x
Intelligent Zoom ON	Max. 48x (UHD 32x)
Digital Zoom	2x / 5x / 10x
ND Filter	1/4, 1/16, 1/64, OFF
IR Filter	Incorporates the ON/OFF control function
White Balance	Auto / ATW LOCK / 3200K / 5600K / VAR (2000K—15000K) / Ach Fixed / Bch Fixed
Iris	Auto / Manual
Image Stabilizer	Ball O.I.S., 5-Axis HYBRID O.I.S. (UHD/FHD)
Recording Media	SDHC/SDXC Memory Card
Recording Format	MOV, MP4, AVCHD
Video Compression Format	H.264/MPEG-4 AVC Main Profile, High Profile
Video Resolution	1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 320 x 180
Streaming Method	Unicast, Multicast
Frame Rate	System frequency = 59.94 Hz: 30 fps, 60 fps
	System frequency = 50.00 Hz: 25 fps, 50 fps
Bit Rate	24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps, 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps
Audio Compression Format	AAC-LC, 48 kHz/16 bit, 2ch
Network Protocol	RTSP/RTP/RTMP/RTMPS
Recording Format	JPEG (DCF/Exif2.2)
Recording Image Size*	Video Playback Mode: 3840 x 2160 (16:9), 1920 x 1080 (16:9), 1280 x 720 (16:9)
Power Supply	7.28V (Battery) / 12V (AC Adaptor)
Power Consumption	15.5W (LCD Monitor)

Dimensions (W x H x D)	Approx. 129 x 159 x 257 mm (5.08 x 6.26 x 10.1 inch)
Weight	Shooting: approx. 1.5kg (3.31 lb)
LCD Monitor	3.5-inch Wide LCD monitor (About 2,760,000 dots)
Viewfinder	0.24-inch Wide EVF (About 1,560,000 dots)
Manual Ring	Focus / Zoom or Iris
Accessory Shoe	Yes
Average Illumination	Approx. 70 lx (1.0m)
Irradiation Angle	Approx. 30°
Color Temperature	Approx. 4600K
SDI OUT	BNC x 1, 0.8V[p-p], 75Ω, 3G/1.5G HD-SDI supported Output format:
HDMI	Type A x 1 (VIERA Link not supported)
Built-in Microphone	Stereo microphone
Microphone Input	3.5mm stereo mini jack x 1
XLR Input	XLR (3 pins) x 2
SDI	2 ch (LPCM) Gain: 0dB/-6dB/-8dB
HDMI	2 ch (LPCM 24bit)
Headphone	3.5 mm diameter stereo mini jack x 1
Speaker	15 mm diameter, round x 1
Camera Remote	2.5mm super mini jack x 1
USB 2.0 DEVICE	Micro-AB connector, 5-pin, mass storage function (read only)
DC IN	DC 12V (11.4V — 12.6V) EIAJ Type4
Standard	IEEE 802.11b/g/n
Frequency	2.4GHz band
AC Adaptor	Yes
AC Cable	Yes
Rechargeable Battery Pack	Yes (5,900mAh)
Handle Unit	Yes (detachable)
Microphone Holder	Yes
Microphone Holder Screws	Yes
Eye Cup	Yes
Lens Hood	Yes
Warranty	3-year warranty

Technical Specification for Video encoder and switcher (01 Ps)	
Features	**Tender Specification**
Brand	Any reputed international brand
Model	To be mentioned by the bidder
Country of Origin	To be mentioned by the bidder
Country of Manufacture	To be mentioned by the bidder
Total Video Inputs	4
Total Outputs	2
Total Audio Inputs	2 x 3.5mm stereo mini jack
Total Audio Outputs	Embedded audio only
HDMI Video Inputs	4
HDMI Program Outputs	1
Ethernet	Ethernet supports 10/100/1000 BaseT for live streaming, software control, software updates and direct or network panel connection.
Computer Interface	1 x USB Type-C 3.1 Gen 1 for external drive recording, webcam out, software control, software updates and panel connection.
Upstream Keys	1
Downstream Keys	1
Advanced Chroma Keys	1
Linear/Luma Keys	2
Transition Keys	DVE only
Total Number of Layers	5
Pattern Generators	1
Color Generators	2
Interface	Minimum monitor resolution of 1366 x 768.
Streaming	Direct live streaming using Real Time Messaging Protocol (RTMP) over ethernet or a shared mobile internet connection over USB-C.
Multi View Monitoring	1 x 10 Views including left right configurable Program/Preview, 4 HDMI inputs, Media Player, Streaming Status, Recording Status and Audio Meters.
Power Supply	1 x External 12V power supply
Power Usage	30W
Warranty	2 Years