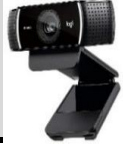
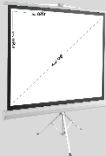


SUPPLY OF IT EQUIPMENT		
	TECHNICAL SPECIFICATIONS	COMPARATIVE SPECIFICATION / REMARKS
A - Minimum technical requirements.		Comparative specification / remarks should indicate any deviation from technical parameter or functional description of tender specification or confirmation with "Yes" and if applicable further particularities.
1	Monitor 	
1.1	Product: Dell P2719HC USB-C Monitor or equivalent	
1.2	Device Type: LED-backlit LCD monitor - 27"	
1.3	Features: USB 3.0 hub	
1.4	Panel Type: IPS	
1.5	Aspect Ratio:16:09	
1.6	Native Resolution:1920 x 1080 at 60 Hz	
1.7	Pixel Pitch:0.311 mm x 0.311 mm	
1.8	Brightness:300 cd/m²	
1.9	Contrast Ratio:1000: 1 (typical)	
1.10	Response Time: up to 8 ms (normal); 5 ms (fast)	
1.11	Color Support: at least 16.7 Million colors	
1.12	Ports & Slots:	
1.13	1. Power Connector 2. HDMI Port 3. Stand Lock Feature 4. DisplayPort (In) 5. DisplayPort (Out) 6. USB-C Connector 7. USB Downstream Ports 8. USB Downstream Ports	
1.14	Display Position Adjustments	
1.15	Height-adjustable stand (130mm)	
1.16	Tilt (-5° to 21°)	
1.17	Swivel (-45° to 45°)	
1.18	Pivot (-90° to 90°)	
1.19	Screen Coating: Antiglare with 3H hardness	
1.20	Diagonal Size 27"	

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2	Combo keyboard mouse 	
2.1	Keyboard	
2.2	Layout language: English&Arabic	
2.3	Connection: wired cable usb	
2.4	Spill-resistant design 3 Tested under limited conditions (maximum of 60 ml liquid spillage). Do not immerse the keyboard in liquid.	
2.5	Adjustable keyboard height	
2.6	10-Key Number pad	
2.7	8 Hotkeys: Play/Pause, Mute, Volume down, Volume up, Internet home, Launch default email application, PC sleep, Calculator launch	
2.8	Up to 5 million keystrokes (excludes number lock key)	
2.9	Key type: deep-profile keys	
2.10	Mouse	
2.11	Sensor technology: Optical tracking	
2.12	Number of buttons: 3 (Left/Right-click, Middle click)	
2.13	Scrolling: line-by-line	
2.14	Scroll Wheel: Yes, optical	
2.15	1-year Limited hardware warranty minimum	
3	Head set 	
3.1	Stereo Headphones with Noise-Cancelling Microphone, USB, In-Line Controls, PC/Mac/Laptop - Black	
4	Webcam 	
4.1	C922 PRO HD STREAM WEBCAM or equivalent	
4.2	Max Resolution: 1080p/30 fps - 720p/ 60 fps	
4.3	Camera mega pixel: 3	

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4.4	Focus type: Autofocus	
4.5	Lens type: Glass	
4.6	Built-in mic: Stereo	
4.7	Mic range: Up to 3 ft (1 m)	
4.8	Diagonal field of view (dFoV): 78°	
5	Printer	
		
5.1	HP Color LaserJet Pro MFP M479fnw or equevalnet	
5.2	Functions: Print, copy, scan	
5.3	First page out black (A4, ready), As fast as 9.5 sec	
5.4	First page out color (A4, ready), As fast as 11.0 sec	
5.5	Print quality black (best)600 x 600 dpi, Up to 38,400 x 600 enhanced dpi	
5.6	Print quality color (best)600 x 600 dpi, Up to 38,400 x 600 enhanced dpi	
5.7	Scan resolution, 1200 x 1200 dpi, Duplex ADF scanning	
5.8	Automatic document feeder capacity	
5.9	Standard, 50 sheets uncurled	
5.10	Print technology, Laser	
5.11	Network capabilities, Wireless capability	
5.12	Processor speed 1200 MHz	
5.13	Maximum Memory512 MB NAND Flash, 512 MB DRAM	
5.14	Compatible Operating Systems Windows Client OS (32/64-bit), Win10	
5.15	Number of print cartridges, 4 (1 each black, cyan, magenta, yellow)	
6	Paper Shredder	
		

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6.1	SUNWOOD SD9520	
6.2	Sheet capacity(70g): 6	
6.3	cut size(mm): 3x15	
6.4	continuous working time(min): 5	
6.5	Speed (m/min): 2.2	
6.6	Dimensions(mm): 330x235x510	
6.7	Bin volume(L): 15	
6.8	Noise level(db): 55	
6.9	Gross weight(kg): 11	
7	Projector 	
7.1	Projection Technology	
7.2	3LCD with Micro-Lens Array	
7.3	Native Resolution: WXGA	
7.4	Pixels: 1280 x 800	
7.5	Aspect Ratio: 16:10	
7.6	Light Source: UHP Lamp	
7.7	Light Source Life Hours: 20000	
7.8	Supported Resolution: 3840 x 2160	
7.9	Image Offset (%) :7	
7.10	Focal Length f (millimeters)	
7.11	19.16 ~ 23.02	
7.12	F-Stop	
7.13	1.6 ~ 1.76	
7.14	Projection Distance (Meters/Feet)	
7.15	0.94 ~ 11.60 / 3.08 ~ 38.05	
7.16	Optical Zoom: Manual	
7.17	Digital Zoom Demagnification / Magnification: 0.0x ~ 4.0x	
7.18	Focus Adjustment: Manual	
7.19	Connectivity: Mini D-sub 15-pin (VGA)	
7.20	Composite Video: HDMI™ 1.4	
7.21	USB-B 2.0	
7.22	RJ45 - LAN 10/100/1000	
7.23	3.5 mm Stereo Mini Jack	

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A - Minimum technical requirements.		Comparative specification / remarks should indicate any deviation from technical parameter or functional description of tender specification or confirmation with "Yes" and if applicable further particularities.
7.24	Mini D-sub 15-pin (VGA)	
7.25	3.5 mm Stereo Mini Jack	
7.26	Powered USB-A for Wireless Dongle	
7.27	USB-B 2.0 for Service	
7.28	Document Reader	
7.29	Video Player	
7.30	Photo Viewer	
7.31	Music Player	
7.32	has context menuComposeParagraph	
8	TRIPOD (STAND)	
		
8.1	SCREEN PROJECTOR (70"x70")180x180cm	
8.2	Portable Front projection screen	
8.3	Matte White / Flame retardant surface	
8.4	Black Masking Borders	
8.5	Simple height adjustment	
9	HIKVISION NVR: DS-7616NXI-I2/S with HDD 2 TB	
9.1	Video/Audio Input :	
9.2	IP Video Input: 16-ch	
9.3	Incoming Bandwidth: 160 Mbps	
9.4	Outgoing Bandwidth: 256 Mbps	
9.5	HDMI Output: 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
9.6	VGA Output: 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
9.7	Recording Resolution: 32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA	
9.8	Network:	
9.9	Network Interface: 2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	

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A - Minimum technical requirements.		Comparative specification / remarks should indicate any deviation from technical parameter or functional description of tender specification or confirmation with "Yes" and if applicable further particularities.
9.10	Network Protocol:	
9.11	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS	
9.12	Auxiliary Interface:	
9.13	SATA: 2 SATA interfaces for 2 HDDs	
9.14	USB Interface: Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0	
9.15	HDMI Output: 1-ch, resolution: 4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920 , *1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024, 768/60Hz	
9.16	Audio Output: 1-ch, RCA (Linear, 1kΩ)	
9.17	Synchronous Playback: 16-ch	
9.18	VGA Output: 1-ch, resolution: 1920*1080P/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024 *768/60Hz	
9.19	Decoding : Capability: 4-ch@8MP,16-ch@1080P	
9.20	Playback:12MP/8MP/6MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF	
9.21	Capacity: Up to 14 TB capacity for each HDD	
9.22	Alarm In:4-ch Alarm Out:1-ch	
9.23	POE Supported Standard: AF and AT	
9.24	Power:200W	
9.25	POE Interface:16 independent 10/100 Mbps PoE Ethernet interfaces	
10	Hikvision DS-2CD2T87G2-L	
10.1	Camera	
10.2	Image Sensor: 1/1.2" Progressive Scan CMOS	
10.3	Resolution: 3840 × 2160	
10.4	Illumination: Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light	
10.5	Shutter Time: 1/3 s to 1/100,000 s	
10.6	Angle Adjustment: Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°	
10.7	High-quality imaging with 8 MP resolution, 4 K ColorVu	
10.8	Lens	
10.9	Focal Length & FOV:	
10.10	2.8 mm: horizontal FOV102°, vertical FOV 52°, diagonal FOV 124°	
10.11	4 mm: horizontal FOV 88°, vertical FOV 47°, diagonal FOV 104°	
10.12	6 mm: horizontal FOV 54°, vertical FOV 30°, diagonal FOV 62°	
10.13	Iris Type: Fixed	
10.14	Illuminator	

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10.15	Supplement Light Type: White Light	
10.16	Supplement Light Range: 60 m	
10.17	Smart Supplement Light: Yes	
10.18	IP 67	
10.19	Video	
10.20	Main Stream:	
10.21	50 Hz: 25 fps (3840 × 2160, 3200 × 1800 , 2688 × 1520, 1920 × 1080, 1280 × 720)	
10.22	60 Hz:24 fps (3840 × 2160) 30 fps (3200 x 1800 , 2688 × 1520, 1920 × 1080, 1280 × 720)	
10.23	Network	
10.24	Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP	
10.25	Day/Night Switch:	
10.26	Day, Night, Auto, Schedule	
10.27	Interface	
10.28	Ethernet Interface: 1 RJ45 10 M/100 M self-adaptive Ethernet port	
10.29	Reset Key: Yes	
10.30	Event:	
10.31	Motion detection (human and vehicle targets classification), video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)	
10.32	Power:	
10.33	12 VDC ± 25%, 0.7 A, max. 8.5 W, Ø5.5 mm coaxial power plug, reverse polarity protection	
10.34	PoE: (802.3af, Class 3, 36 V to 57 V), 0.27 A to 0.17 A, max. 9.5 W	
11	Online UPS	
11.1	Capacity (VA/Watt) 3000 VA / 2400 Watt	
11.2	input Frequency Range: 40Hz ~ 70 Hz	
11.3	output Frequency Range 47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)	
11.4	transfer Time AC to Battery: Zero	
11.5	Transfer Time Inverter to Bypass: 4 ms (Typical)	
11.6	AC Mode: at least 90%	
11.7	Battery Type: 6 x 12 V / 9 A	
11.8	warrant: six mont for battery and one year for UPS	

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12	Out door connection box	
12.1	Conceal cables and connectors	
12.2	Protect connectors from rusting	
12.3	water poof	
13	Camera stand holder	
13.1	Heavy-duty weatherproof aluminum mounting bracket	
13.2	Indoor and Outdoor	
13.3	45° Rotation	
13.4	180° Tilt	
14	VIDEO CONFERENCING System	
		
13.1	Smooth motorized pan, tilt and zoom, controlled from remote or console, 260° pan, 130° tilt	
13.2	10x lossless HD zoom 90° Field of View	
13.3	Full HD 1080p 30fps	
13.4	H.264 UVC 1.5 with Scalable Video Coding (SVC) Autofocus	
13.5	5 camera presets	
13.6	Far-end control (PTZ) of ConferenceCam products ZEISS lens certification	
13.7	Kensington security slot	
13.8	LED to confirm video streaming Standard tripod thread	
13.9	SPEAKERPHONE	
13.10	Full-duplex performance Acoustic echo cancellation Noise reduction technology Ultra-wideband audio	
13.11	Bluetooth and NFC wireless technology	
13.12	LCD for caller ID, call duration and other functional response	
13.13	LEDs for speakerphone streaming, mute, hold, and Bluetooth wireless paring.	
13.14	Touch controls for call answer/end, volume and mute, Bluetooth – plus camera PTZ, "home" preset and far- end control	
13.15	Microphones (Tx)	

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13.16	Four omni-directional microphones supporting 20-foot diameter range + 2 Expansion Mics	
13.17	Frequency response: 100Hz – 11KHz Sensitivity: -28dB +/-3dB Distortion: <1% @ 1KHz at 106dB	
13.18	Speakers (Rx)	
13.19	Frequency response: 120Hz – 14KHz Sensitivity: 83dBSPL +/-3dB at 1W/1M Max output: 91dBSPL	
13.20	Distortion: <5% from 200Hz Kensington security slot	
13.21	REMOTE CONTROL	
13.22	Dockable, at least 8.5m/28-foot range	
13.23	HUB/ CABLE	
13.24	Central mountable hub for connection of all components	
13.25	Included adhesive solution for under-table mounting	
13.26	Two cables for connection between hub and camera/ speakerphone (Length:at least 5m/16')	
13.27	One USB cable for connection to PC/Mac (Length: at least 3m/6.6') -	
13.28	AC Power adapter (Length: at least 3m/9.8') -	
13.29	MOUNT	
13.30	Dual purpose mount for wall placement or for elevating the camera on a table	
13.31	COMPLIANCE AND TOOLS	
13.32	USB 2.0 compliant	
13.33	UVC-compliant video and audio for broad application compatibility	
13.34	Optimized for Microsoft® Lync®, Certified for Skype for Business, Cisco Jabber® and WebEx® compatible. Enhanced integration with Logitech Collaboration Program (LCP) members.	
13.35	Downloadable diagnostic tool Field upgradeable firmware tool	
13.36	Downloadable app plug-ins for advanced feature support	
15	Hard Drive	
15.1	'SSD Modele: WD84PURZ or equivalent	
15.2	Capacity: 8TB	
15.3	Speed: 5,400RPM.	



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15.4	Form Factor: 3.5inx1.0in LFF Hard Drive	
15.5	Connector: SATA	
B. DELIVERY		
1	DDP Al-Mosul GIZ GH	
2	Handling, worker, transportation, connection and installation is under the responsibility of the supplier.	
3	Please indicate the shortest delivery time	
C. REMARKS AND CONDITIONS		
1	All standard accessories for all offered items should be provided	
2	All necessary materials, equipment, tools, skilled and unskilled labor(s) to complete the work perfectly and neatly is under the responsibility of the supplier.	
3	The contractor will be responsible to provide all necessary personal protection equipment (gloves, safety-shoes, protection glasses... etc.) for workers involved and take the safety measures during the work in the site to prevent accidents	
4	The supplier is responsible for connecting the fuel tank to the generator and providing all necessary items	
5	connect the generator with the house main electricity system is under the responsibility of the supplier	
6	the supplier must specify the warranty duration for all items with 1 year warranty starting from the time of delivery to the site	
7	catalogues or technical data sheet are requested for all items	
8	comparable specifications to be highlighted in the catalogues	
9	the brand and the model of the offered items to be indicated	
10	reference pictures are only to recognize and understand the items, not an indication for any model or brand	