TECHNICAL SPECIFICATIONS/ COMPLIANCE FORM

LOT NO.	ITEMS	SPECIFICATIONS	Compliant	Non-complian
A	55 units	Desktop - All-In-One PC Configuration		-47.3
1		• Intel Core i5-8500 3.0 8th Gen		
		• 8GB DDR4, 2400 MHz 2666		
		• 1TB SATA3 7200RPM		
		• Wireless LAN 802.11 ac + BT4.0		
		• Ports: LAN port, USB 3.0, Display port or VGA or HDMI, Audio jack(s), Card reader		
		• 23.8" Non-Touch		
		Integrated HD Graphics		
		Optical Drive RW		
		Genuine Microsoft Windows 10 Pro 64 bit		
		USB Keyboard and Optical Mouse (same brand)		
		Branded (Globally Known Brand)		
		• Warranty: 3/3/3 AiO		
		• 650 VA UPS		
		• Warranty for the UPS: 2 years, battery: 1 year		
		Complete documentation of all the components.		, ,
2	20 units	Notebook PC		
		• Intel Core i5 -7200U 430 7th Generation		
		• 13.3 inch LED Anti-glare		
		• 8GB DDR4 2400 SDRAM (1 x 8 GB)		
		• 1TB 5400 RPM HDD		
		• 2.0/3.0 USB Ports, RJ45, VA Port, DisplayPort and/or HDMI		
		Backlit Keyboard		
		• 3 cell 44WHr Battery (3 year Warranty)		
		• Fingerprint Reader		
		• WLAN ac + BT		
		with bundled software		
		Genuine Microsoft Windows 10 Pro 64 bit		
		Optical Mouse (same brand)		
		Branded (Globally Known Brand)		
		Warranty: 3 years Parts and Labor		
		• With Carrying Case,		
3	3 units	PC Workstation		
		• Intel Core i7-7700K 8M 4C 4.2 8M 4C CPU		

		• 16GB 2400 MHz DDR4 Non-ECC		
		• 1 TB SATA (7,200 Rpm) Hard Drive		
		• 4 GB Graphics		
		• DVD Writer		\neg
		• 10/100/1000, Integrated Gigabit Ethernet		
		• USB 2.0, USB 3.0, DVI, Display ports, Audio In/Out		
		Integrated Intel SATA Controller		
		• Intel Wireless 8260 ac card		
		• 23" Full-HD Monitor		
		Keyboard and Optical Mouse		
		• with bundled software		
		Genuine Microsoft Windows 10 Pro 64 bit		
		Branded (Globally Known Brand)		
		• Warranty: 3 years parts and labor and service (3/3/3)		
		• 650 VA UPS		
		Warranty for the UPS: 2 years, battery: 1 year		
		Complete documentation of all the components.		
В	1 unit	PC Workstation Design		
1		• Intel Core i5 Processor (2.3 GHz Dual-core 7th Generation)		
		• 8GB 2133MHz DDR4		
		• 1 TB SATA (5400 Rpm) Hard Drive		
		Operating System: Mac OS High Sierra		
		Graphics:		
		• Intel Iris Plus Graphics 640		
		Display: 21.5 inch LED-backlit display; 1920 x 1080 resolution		
		Video Support and Camera:		
		• HD camera		
		• Simultaneously supports full native resolution on the built-in display at millions of colors (21.5-inch) or 1 billion colors (21.5-inch 4K) and: One		
		5120-by-2880 (5K) external display at 60Hz with support for 1 billion colors,		
		or	9	
		Two 3840-by-2160 (4K UHD) external displays at 60Hz with support for 1 billion colors, or		
		Two 4096-by-2304 (4K) external displays at 60Hz with support for millions of		
		colors		
		Thunderbolt 3 digital video output		
		Native DisplayPort output over USB-C Native DisplayPort output over USB-C Native DisplayPort output over USB-C		
-		Thunderbolt 2, HDMI, DVI, and VGA output supported using adapters		
		Audio:		
		• Stereo speakers		
		• Microphone		
		• 3.5 mm headphone jack		

		Connections and Expansion:	
		• SDXC card slot	
		• Four USB 3 ports (compatible with USB 2)	
		• Two Thunderbolt 3 (USB-C) ports with support for: DisplayPort; Thunderbolt (up to 40 Gbps); USB 3.1 Gen 2 (up to 10 Gbps); Thunderbolt 2, HDMI, DVI, and VGA supported using adapters	
		• 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)	
		Kensington lock slot	
		Wireless:	
		• Wi-Fi: 802.11ac Wi-Fi wireless networking; IEEE 802.11a/b/g/n compatible	
		Bluetooth: Bluetooth 4.2 wireless technology	
		Warranty:	
		• 1 Year	
2	14 units	<u>Tablet</u>	
		• Display: Retina display, 9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology, 2048-by-1536-pixel resolution at 264 ppi, Fingerprint-resistant oleophobic coating	
		• A10 Fusion 4th Generation chip with 64-bit architecture Embedded M10 coprocessor	
		• Capacity: Wi-Fi, 128GB	
		8-megapixel camera, Live Photos, Autofocus, Panorama (up to 43 megapixels)	
		• Video Recording: 1080p HD video recording (30 fps), Slo-mo (120 fps), Time-lapse video with stabilization, Video image stabilization, Face detection, 3x video zoom, Video geotagging	
		• HD Camera: 1.2-megapixel photos, Live Photos, <i>f</i> /2.2 aperture, Retina Flash, 720p HD video recording	
		• Wi-Fi: Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO Bluetooth 4.2 technology	
		Sensors: Touch ID, Three-axis gyro	
		Power and Battery: Built-in 32.4-watt-hour rechargeable lithium-polymer battery, Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music, Charging via power adapter or USB to computer system With Power Adapter and Cables	
		The standard of the standard o	
		• Warranty: One (1) year	
2	1 unit	Tablet for GIS	
3	Tunit	• Display: Retina display, 12.9-inch (diagonal) LED-backlit Multi-Touch display, 2732-by-2048 resolution at 264 pixels per inch (ppi)	
	1	• A10X Fusion chip with 64-bit architecture, Embedded M10 coprocessor	
	1	• Capacity: 256GB	
ha harad	-	• Camera: 12-megapixel camera, Digital zoom up to 5x, Quad-LED True Tone flash, Panorama (up to 63 megapixels), Autofocus with Focus Pixels, Sapphire	
		 crystal lens cover, Backside illumination sensor Video Recording: 4K video recording at 30 fps, 1080p HD video recording at 30 fps or 60 fps, 720p HD video recording at 30 fps, Slo-mo video support for 	

T		1080p at 120 fps and 720p at 240 fps		
		Speakers: Four speaker audio		
		• Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO		
		• Sensors: Touch ID, Three-axis gyro, Accelerometer, Barometer, Ambient light sensor		
		Power and Battery: Built-in 41-watt-hour rechargeable lithium-polymer		
		battery, Up to 10 hours of surfing the web on Wi-Fi, Charging via power		
		adapter or USB to computer system With Power Adapter and cables		
		• Warranty: One (1) year		
		- Warranty. One (1) year		
C				
1	1 unit	Inkjet Printer		
		Print Method: On-demand ink jet (piezoelectric)		
		Nozzle Configuration: 360 nozzles Black		
		Print Direction: Bi-directional printing, Uni-directional printing		
		Maximum Resolution: 1440 dpi x 720 dpi (with Variable-Sized Droplet		
		Technology)		
		Connectivity: Hi-Speed USB 2.0; Built-in wired Ethernet 10/100Base-TX Description: Built in	3	
		(RJ45) networking; Built-in • Minimum Ink Droplet Volume 3pl		
		• Print Speed: Max Black Draft Text - Memo (A4) Approx. 34 ppm (Draft);		
		ISO Default - ISO 24724 Black Approx. 15 ipm		
		• Collate : Yes		
		• Printer Interface: USB:Hi-Speed USB 2.0; Ethernet:100BASE-TX / 10BASE-T		
		Paper Feed Method: Friction feed		
		• Input Capacity: 100 sheets, A4 Plain paper (75g/m²)		
		Output Capacity: 30 sheets, A4 Plain Paper (Default Text)		
		• Paper Size A4, A5, A6, B5, 10x15cm(4x6"), 13x18cm(5x7"), 9x13cm(3½ x5"), Letter (8½ x11"), Legal (8½ x14"), Half Letter (5½x8½"),13x20cm (5x8"), 20x25cm (8x10"), 16:9 wide size, 100x148mm, Envelopes: #10(41/8 x9½"), DL (110x220mm), C6 (114x162mm)		
		One (1) year warranty		
		• With additional two (3) extra inks (140 ml)		
		• Service unit (of the same, equivalent or higher specs) is required whenever		
		the unit is under repair.		
		* Full replacement of defective unit is 15 working days from date of receipt.		
		,		
2	2 units	Portable Printer		
	2 umis	• Print Quality: Up to 1200x1200 black; Up to 4800 x 1200 optimized color		
		• Processor: 525 MHz		
		• Memory: 128 MB		
		• Paper: Letter, Legal, A4, envelope		

		• Input Tray capacity: Up to 50 sheets	
		Connectivity: USB, Bluetooth and/or WiFi	
		Print Speed: Up to 20ppm for black; Up to 18ppm for color	
		Branded (Globally Known Brand)	
		• 1 Yr Warranty	
		Complete documentation of all the components.	 :
		• Service unit (of the same, equivalent or higher specs) is required whenever	
		the unit is under repair.	
		* Full replacement of defective unit is 15 working days from date of receipt.	:
			:
D			
1	2 units	<u>Projector</u>	
		Resolution: WXGA	
		Brightness: White Light Output (Normal/Eco) 4,200lm / 2,400lm	
		Colour Light Output: 4,200lm	
		Contrast Ratio:3,000:1 (minimum)	
		Screen Size (Projected Distance): Zoom: Wide: 29" - 280" [0.84m - 8.4m]	
l		Zoom: Tele: 29" - 280" [1.36m -13.9m]	
		Standard size: 60" screen 1.79+C232m - 2.92m	
		• Zoom Ratio: 1 - 1.6	
		• Throw Ratio: 1.38 - 2.24 (Wide - Tele)	
		• Input interface: Analog: D-Sub 15 pin x 2, Component: D-sub 15pin Blue molding x 2	
		(in common with Analog RGB connector), Composite Video [RCA (Yellow) x 1] x 1,	
		Digital: HDMI x 1, Audio (Stereo mini jack); input x 2; output x 1, USB x 2	
		Network: Wired; Rj45 x 1 (10/100 Mbps), Wireless	
		Sound Output: Monoaural: 10W x 1	
		Warranty: Two (2) years on Main parts (NBDO)	
		1 Year warranty on bulb or 1000 hours	
		Complete with VGA and HDMI cables, manuals and documentations	
2	3 units	Document Camera	
		Sensor:	
		Pick-up Device: CMOS	
		• Size: 1/27"	
		• Effective Pixels: 2M Pixels (1920 x 1080)	
		• Frame Rate: Up to 30fps	
		Native Resolution: 1080p (16:9 Aspect Ratio)	
		Lens:	
		Type: Optical Zoom/Focus	

		• Shooting Area: Max 297 x 526 mm at 1080 output resolution	
		• Zoom: Up to 10x Digital, Up to 12x Optical	
		Illumination:	
		• Upper: White LED x 2 (variable LED light)	
		Interface Port:	
		• Input: D-Sub 15pin (VGA)	W.
		Output: D-Sub 15pin (VGA), HDMI, USB I/O, Internal Mic, Memory I/O SD Card	
		Functions:	
		Basic: Freeze, Output Source select, Image brightness adjustment, Light Brightness control, Auto detect aspect ratio	
		• Extended: Still image capture, Video capture, Digital Scroll /Pan /Tilt, Split Screen	
		Warranty:	
		• 1 Year warranty	
		Other:	
		• with Cables: VGA, VGA extension, HDMI (3m), USB, Carrying case.	
E			
1	2 lic.	Adobe Indesign (Additional)	
		Page design, layout and publishing.	
		Export document as separate PDF pages	
		New presets for mobile and tablet	
		Richer analytics for Publish Online documents	
		Create borders that enclose multiple paragraphs using Paragraph Border feature	
		Create cross-reference by searching a particular paragraph from the list of paragraphs with the help of a search bar	
		Create new document, with option to preview the document as changes made in the New Document dialog	
		Add endnotes and quickly reference annotations within long documents	
		Create a border around one or more paragraphs	
and the state of t		Set and modify object size and position across pages in a document	
		Add text objects from InDesign documents to Creative Cloud libraries With option in the HTML export dialog which tells InDesign to not include classes in the HTML	
		• One (1) year subscription	
		Commercially available with local support	
2	1 lic.	Adobe Acrobat Pro (Additional)	
		Approve with electronic signatures	
		Combine files in PDF Portfolio	
		Remove and redact information	
		Meet PDF accessibility standards	

1		• Edit text and images	1	
		Convert PDF Files to Powerpoint		
		Standardize routine PDF tasks		
		Automate repetitive multistep tasks and share with others.		
		Turn scanned paper documents into instantly editable PDFs		
		Add audio, video, and interactive objects to PDFs		:
		Prepare PDFs consistently with guided actions		
		Automatically optimize PDFs to reduce file size , or customize settings first		:
		• Redact to permanently remove sensitive information in PDFs		
		Index PDF files to speed search across document collections		:
		• with installation media		
		commercially available with local support		
		Perpetual License		
3	3 lics.	Adobe Illustrator (Additional)		
		· With On-Screen controls		:
		· Can import multiple page PDFs.		:
·		· Can merge data using CSV files.		
		· Properties panel. With access to all of the controls in one place.		
		· Puppet Warp. Transform vector graphics while maintaining a natural look.		
		· Creates up to 1,000 artboards on a single canvas.		
		· Stylistic sets: With predefined glyph alternates to an entire block of text.		
		· Easier artboard organization.		
		· SVG color fonts.		
		· Variable fonts.		
		· MacBook Pro Touch Bar support.		
		· Text management in Creative Cloud Libraries		
		· Easier image cropping.		
		· Faster document creation.		
		· With Color Theme panel.		
F	2 lies.	3D Modelling Software Application		
1		General Description:		
		Procedural 3D modelling application specialized for generation of 3D urban environments		
		3D shape generation via rule-based system and data sets		
		Compatible with existing BCDA GIS Database		
		Features:		
		Procedural modeling core		
		 Highly integrated with GIS & CAD Data Supports industry-standard GIS/CAD formats such as shapefile, 		
		file geodatabase, OSM		
				1

building parameters Interactive designing, editing and modification of urban layouts Supports Industry-standard 3D formats such as Collada, Autodesk FBX, 3DS, etc. Integrated 3D Web Scene export to existing BCDA 3D Web Mapping Platform Rule creator and visual façade authoring tool Custom report generation thru use of scripts and rule-based report generation Local technical support and availability of training materials With Training / Knowledge Transfer 2 1 lic. ArcGIS 3D Analyst Extension Capabilities View GIS data on a 3D globe using ArcGlobe. View GIS data within a 3D planimetric view using AreScene. Query GIS data within a 3D planimetric view using AreScene. Query GIS data using 3D distances. Ask 3D analytic questions, such as What is the impact of a proposed building on existing views? Build and maintain functional surfaces, such as a terrain dataset constructed from lidar. Query and analyze surfaces, such as slope and aspect. Import 3D data from multiple sources, such as multipatch buildings constructed in SketchUp. Edit and maintain 3D vector data, such as building interior transportation networks. Use interactive tools to make 3D queries, such as measuring heights inside 3D. Local technical support and availability of training materials With two 3D visualization applications, ArcGlobe and ArcScene ArcCatalog: Allows to create new surfaces from your GIS data as well as analyze surfaces, query attribute values at a location on a surface, and analyze the visibility of parts of a surface from different locations			Parametric modeling interface to interactively control street or		
Autodesk FBX, 3DS, etc. Integrated 3D Web Scene export to existing BCDA 3D Web Mapping Platform Rule creator and visual façade authoring tool Custom report generation thru use of scripts and rule-based report generation Local technical support and availability of training materials With Training / Knowledge Transfer 2 1 lic. ArcGIS 3D Analyst Extension Capabilities View GIS data on a 3D globe using ArcGlobe. View GIS data within a 3D planimetric view using ArcScene. Query GIS data using 3D distances. Ask 3D analytic questions, such as What is the impact of a proposed building on existing views? Build and maintain functional surfaces, such as a terrain dataset constructed from lidar. Query and analyze surfaces, such as slope and aspect. Import 3D data from multiple sources, such as multipatch buildings constructed in SketchUp. Edit and maintain 3D vector data, such as building interior transportation networks. Use interactive tools to make 3D queries, such as measuring heights inside 3D. Local technical support and availability of training materials With two 3D visualization applications, ArcGlobe and ArcScene ArcCatalog: Allows to manage 3D GIS data and create layers with 3D viewing properties ArcMap: Allows to create new surfaces from your GIS data as well as analyze surfaces, query attribute values at a location on a surface, and analyze the visibility of parts of a surface from different locations			91	-	
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	G	1 lic	AutoCAD Civil 3D (Additional license)		
For three (3) concurrent network users	1		- For three (3) concurrent network users		
Features					
Can obtain feature lines from a surface or relative to surface,					
Can create dynamic offset profiles using a defualt cross slope,					

		Can create new dynamically linked alignment and profile,		
		Can resize pipes and reset inverts, and compute the energy and		
		hydraulic grade lines according to HEC-22 2009 standards,		
		Can create plan/plan and profile/profile sheets,		
		Can add custom data to object labels by using property sets,		
		Can create points, lines, curves representing traverse legs and		
13 AMERICA		sideshots using COGO input and editing tools		
		· Can resolve corridor bowties in daylighting conditions.		
		· With tools for corridor modelling	2003-201	
		· Can easily extract multiple feature lines		
		· Can streamline the layout of rail tracks,		
		· Can use and display point cloud data,		
		Can create TIN surfaces from point cloud data		
		· With tools to create dynamic surfaces,		
		· With terrain models for grading,		
		With automated parcel design tools,		46 L
		With tools for sanitary and storm drainage systems		
		With tools for saintary and storm dramage systems With tools to help better plan, visualize, and model geotechnical		
		data		
		Technical Support		
		Site visit by a qualified /certified application engineer when		
		needed,		
		· Quarterly site visit for maintenance.		
2	3 lics.	AutoCAD LT (Additional licenses)		
		Features:		
	enr			
1		Can compare and document the differences between 2 versions of	*	
		a drawing,	Ε.	
		a drawing, Can save drawings from desktop to view and edit on web and		
		a drawing, Can save drawings from desktop to view and edit on web and mobile apps		
		a drawing, Can save drawings from desktop to view and edit on web and mobile apps With 2X faster zoom, pan, and change draw orders and layer	٠	
		a drawing, Can save drawings from desktop to view and edit on web and mobile apps With 2X faster zoom, pan, and change draw orders and layer properties,		
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+		· Quarterly site visit for maintenance.	
+		Video Conferencing System	
1	2 sets	Video Conferencing Kit (for small meeting room)	
		· Schedule meetings with dozens of internal and external participants and up to 25 devices.	
		Real time, wireless sharing and collaboration	
		· Updates roll out automatically	
T		· Can control and monitor devices remotely	
İ		· Can join meetings from the web or mobile devices	
T		· Technical Specification:	
		OS: Google Chrome OS	
		• Processor: 5th generation Intel Core i7 5500U (2 Core, 2.40GHz, 4 MB)	
		Memory: 4 GB DDR3	
		• Storage: 16 GB SSD	
		Graphics: Intel HD Graphics 5500	
		Camera: Full HD 1080p (1920x1080), autofocus, low light correction	
		• Microphone/speaker: omni-directional, noise filter, built in controls (volume, mute, start/end call)	
		Remote control: wireless, RF based, USB adapter, full QWERTY keyboard	
		• Ports: 4x USB 3.0, gigabit ethernet, HDMI, DisplayPort, 4-in-1 card reader: SD/SDHC/SDXC/MMC	
ĺ		• Wireless: WiFi 802.11 a/b/g/n/ac, Bluetooth 4.0	
		• Accessories: 1x USB cable (15-feet), 1x ethernet cable (15-feet), 1x HDMI cable, 1x AC adapter, 1x VESA mount kit	
		Services: 3-year warranty, delivery included, installation not included	_
2	2 sets	Video Conferencing Kit (for large meeting room)	- Statement
		· Schedule meetings with dozens of internal and external participants and up to 25 devices.	
		Real time, wireless sharing and collaboration	
	-	· Updates roll out automatically	107
		· Can control and monitor devices remotely	The state of
		· Can join meetings from the web or mobile devices	
		· Technical Specification:	The second
		OS: Google Chrome OS	
		• Processor: 8th generation Intel Core i7 8500U (4 Core, 1.80GHz up to 4 GHz, 8 MB)	The state of the s

	Memory: 4 GB DDR4	
	• Storage: 32 GB SSD	
	Graphics: Intel HD Graphics 620	
	• Controller: 10.1" IPS multi-touch display panel (1280 x 800	
	resolution) • Camera: 4K UHD, 120° wide field of view, intelligent participant	
	detection, auto zoom/cropping	#
	• Mic/speaker: 360° sound input/output, 20-foot range, active echo cancellation, background noise	
	management	
	• Ports: 3x USB 3.1, 1x USB 3.1 type-C, gigabit ethernet, HDMI, DisplayPort, 4-in-1 card reader: SD/SDHC/SDXC/MMC	1 - 2
	• Wireless: WiFi 802.11 a/b/g/n/ac, Bluetooth 4.2	
	• Accessories: 2x USB to mini-USB cable, 1x USB to type-C cable, 1x USB to micro-USB cable, 1x ethernet cable, 1x HDMI cable, 1x AC adapter, 1x LCD stand, 1x	
	VESA mount kit	
	Services: 3-year warranty	
3 1 set	Multi-platform Video Conferencing Kit (Board Room)	
	> Must be able to join from any video conferencing system platform,	
	> Hardware must be optimized to run on a cloud platform, for easy	
	access to hosted conferences,	
	➤ Must be able to connect to any mobile devices,	
	> Must be able to connect to two or more participants (scalable),	
	➤ With software and technical support (includes firmware updates).	
	A. Technical Specifications:	
	Hardware component: table microphone, wall mount for codec plus	
	Bandwidth: up to 6 Mbps point to point	
	Minimum bandwidth for resolution/frame rate: H.264	
	720p30 from 768 kbps	
	720p60 from 1152 kbps	
	1080p30 from 1472 kbps	
	* ************************************	
	1080p30 from 2560 kbps	
	 Firewall traversal: H.460.18, H.460.19 firewall traversal Video Inputs: One HDMI Input supports formats up to maximum 	
	1080p60, two HDMI inputs support	
	formats up to maximum 4K (3840 x 2160) at 30fps	
	• Video Outputs: two HDMI outputs support formats up to 3840 x	
	Video Outputs, two fibrin outputs support formats up to be to	
	2160p60 (4Kp60), Live video resolutions	
	2160p60 (4Kp60), Live video resolutions (encode and decode) up to 1920 x 1080p60 (HD1080p, Consumer	
	2160p60 (4Kp60), Live video resolutions	

Audio Features: High quality 20kHz audio, Subwoofer line out for	
Quad Camera, Prepared for inductive	
loop (line out), Automatic Gain Control (AGC), Automatic noise reduction, Active lip synchronization	
 • Speakers (internal): High-quality speakers, Frequency response 70Hz	
to 20kHz, Max output level SPL 90db	
Speaker tracking: 6-element microphone array for accurate speaker	
 tracking	
Wireless Sharing	
• Multipoint support: 4-way embedded SIP/H.323 conferencing capability with Multisite option	
Multisite features: Adaptive SIP/H.323 Multisite	
3-way resolution up to 1080p30 _ content up to 4Kp5	
4-way resolution up to 720p30 _ content up to 4Kp5	
Full individual audio and video transcoding	
H.323/SIP/VoIP in the same conference	
• Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5	
Embedded encryption: Automatic key generation and exchange	
• IP Network:	
DNS lookup for service configuration	
Differentiated services (Quality of Service [QoS])	
IP-adaptive bandwidth management (including flow control)	
Automatic gatekeeper discovery	
Dynamic playout and lip-sync buffering	
• H.245 Dual-Tone Multi-frequency (DTMF) tones in H.323	
 • RFC 4733 DTMF tones in SIP	
Date and time support using Network Time Protocol (NTP)	
Media adaption and resilience	
Uniform Resource Identifier (URI) dialing	
 Dynamic Host Configuration Protocol (DHCP)	
802.1X network authentication	
• 802.1Q Virtual LAN	
• IPv6 Network Support:	
Single call stack support for both H.323 and SIP	
Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ	
• Support for both static and automatic IP configuration (stateless address auto configuration)	
Security Features:	
Management using HTTPS and SSH	
IP administration password	
Menu administration password	
	:411 1

	Disable IP services		
	Network settings protection		:
1	Network Interfaces Codec Medium:		
	One Ethernet (RJ-45) 10/100/1000 for LAN		:
	One Ethernet (RJ-45) 10/100/1000 for direct pairing with camera		
	• One Ethernet (RJ-45) 10/100/1000 with Power over Ethernet (PoE) for		
	direct pairing with Touch 10		
	• Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz for LAN. 2x2 MIMO		
	Bluetooth 4.0 LE		
	Other interface: USB 2.0 port, uUSB, factory reset pinhole		
	Power supplies: 100 to 240 VAC, 50/60 Hz, 12V DC input		
	Camera Overview:		
	5K Ultra HD Camera		
	Support up to 60 fps		
	• 15.1 MP image sensor		
	• 1/1.7 CMOS		
	• 5x digital zoom (3 tele-lenses each with 50-degree horizontal field of		:
	view)		
	• f/2.0 aperture	M	
	Auto focus, brightness and white balance		
	Focus distance 1m infinity		
	B. Features:		
	• Includes a cloud-based phone system, with the ability to connect other		
	call control capabilities and		
	services, and encompasses all the devices to make calls, • Secure, all-in-one team collaboration. Move work forward in secure		
	work spaces where everyone can		
	contribute anytime with messaging, file sharing, white boarding, video		
	meetings, calling.		
	• with File storage		
	• Integrate existing IT assets to provide a single, integrated experience.		
1	With installation and Configuration.		
	Includes labor, such as carpentry, and drilling works.		
	• End-connectors and other hardware materials. roughing-ins, misc. and		
	other		
	accessories to complete the installation		
	Calibration, Testing & Commissioning		
	Knowledge Transfer		

Note:

- 1. All specifications are minimum requirements. Proponents may propose equivalent or higher specifications.
- 2. For Desktop, PC dimensions (Length, Width and Height) may vary, as long as the total space occupied is equal to or smaller than those indicated in the technical specifications.
- 3. Clones will not be accepted. Please propose globally-known brand.
- 4. Full replacement of defective unit/s should be 30 working days from receipt of notice. If full replacement is not yet possible, a service unit shall be provided by the supplier within 48 hours from receipt of notice of defective unit.
- 5. The obligation for the warranty shall be covered by Retention money in an amount equivalent to at least one percent (1%) of every progress payment.

The said amounts shall only be released after the lapse of the warranty period indicated per item of the TOR.

Prepared by:

Alexander S. Mijares

ITO I, ICTD

Verified by:

Virgil M. Alvarez

engen. C

DM II, ICTD