

**62 SEATER CONFERENCE VENUE (COUNCIL CHAMBER)**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	Fully Digital Congress System Main Unit (discussion,voting) or similar approved	1		
2	Fully Digital Congress System Extension Unit (3 congress unit outlets) or similar approved	1		
3	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, 64 CHs, OLED, charcoal gray panel + black base)(mic not included) or similar approved	1		
4	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, 64 CHs, OLED, charcoal gray panel + black base)(mic not included) or similar approved	61		
5	Stem Microphone (41 cm, semi-rigid gooseneck arm, broadcast quality microphone, with bi-color illuminated ring and lockable windshield, compatible with HCS-4100, black) or similar approved	62		
6	Basic System Setup Management Software Module compatible with HCS-4100 or similar approved	1		
7	Microphone Management Software Module compatible with HCS-4100 or similar approved	1		
8	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting) compatible with HCS-4100 or similar approved	1		
9	Video Control Software compatible with HCS-4100 or similar approved	1		
10	Synchronous Audio Recording Management Software compatible with HCS-4100 or similar approved	1		
11	30 m 6-pin Extension Cable compatible with HCS-4100 or similar approved	4		
12	20 m 6-pin Extension Cable compatible with HCS-4100 or similar approved	4		
13	10 m 6-pin Extension Cable compatible with HCS-4100 or similar approved	4		
14	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G, support HCS-3316CK, with remote control) compatible with HCS-4100 or similar approved	1		
15	3GSDI professional video capture to USB 3.0 with aluminium enclosure or similar approved	1		
16	12X 1080p PTZ Camera with 6.3° (Tele) - 72.5° (Wide) field of view, INPUT: 3.5mm Audio, OUTPUT: 1x USB3.0, 1x HDMI, 1x SDI, CONTROL: Lan, RS-232 IO, RS422/ RS485, control using VISCA IP or Pelco-D/P commands, black. POE or 12V DC Includes remote control and choice of ceiling or wall mount bracket. or similar approved	3		
17	1 x RSA power supply, 6 cable holes supplied with 2 x HDMI 2.0, 1 x USB-C, 1 x 3.5mm audio, 1 x RJ45, 1 x USB3.0 (M-M) each 1.5m long. 2 x USB 5V charging ports. Black brushed aluminium. Slidable cover or similar approved	1		

18	HDMI2.0 Extender package consisting of a RX & TX. Extends 1080p up to 492ft(150m) and 4K2K up to 328ft(100m) over CAT6 & enables IR & RS-232 pass- through to control source or display device remotely. HDCP2.1 (and HDCP1.4), HDR, HDR10+, HLG and CEC functions supported. POC supported. 18Gbps, 4K@60Hz 4:4:4. TX INPUT 1 x HDMI. TX OUTPUT 1x HDMI, 1 x HDBase-T; RX INPUT 1 x HDBase-T, RX OUTPUT 1 x HDMI, 1x Audio. or similar approved	1		
19	4K@60Hz 4x4 HDBaseT Matrix Switcher Supports HDMI 2.0 and HDCP 2.2. Transmits 4K up to 328ft(100m) and 1080p up to 492ft(150m) on HDBaseT ports. Controllable via RS232, IR, CEC, and TCP/IP. TCP/IP control of RS232 end points. Built-in GUI for TCP/IP control. HDR and HLG are supported. EDID Management. INPUTS: 4x HDMI, 4xIR, OUTPUTS: 4x HDMI, 4x HDBaseT(POC) 4xIR OUT, 4x Coaxial and balanced analog audio outputs. Includes HDBaseT Receivers with RS232 control. or similar approved	1		
20	ALF-UC1 wireless conferencing system with Multiview. INPUTS: 1x USB-C & 1x USB-A (On front panel for Dongle pairing), 1x USB-C, 3x USB-A, Supports Airplay and Miracast. OUTPUTS: 1x HDMI, 1x Audio out, 2x Ethernet ports (POE port 2), serial RS232. Optional dongles available: ALF-USBC-D, ALF-HDMI-D or similar approved	1		
21	ALF-HDMI-D wireless dongle with a HDMI and USB, for use with Alfatron ALF-UC1 or similar approved	2		
22	HDMI2.0 Extender package consisting of a RX & TX. Extends 1080p up to 492ft(150m) and 4K2K up to 328ft(100m) over CAT6 & enables IR & RS-232 pass- through to control source or display device remotely. HDCP2.1 (and HDCP1.4), HDR, HDR10+, HLG and CEC functions supported. POC supported. 18Gbps, 4K@60Hz 4:4:4. TX INPUT 1 x HDMI. TX OUTPUT 1x HDMI, 1 x HDBase-T; RX INPUT 1 x HDBase-T, RX OUTPUT 1 x HDMI, 1x Audio. or similar approved	1		
23	4k 4:4:4 HDR 60Hz 1x2 HDMI 2.0 Distribution Amplifier, HDCP 2.2. EDID management 2K X 4K 60Hz Resolution. INPUTS: 1 x HDMI. OUTPUTS: 2 x HDMI. Built in audio de-embedding to balanced, unbalanced and digital audio. or similar approved	1		
24	InFocus WUXGA projector. Light output 5,600 Lumens, laser life 30,000 hours, Display system DLP Laser phosphor, Resolution 1920 x 1200, 4K Ultra HD & HDR Support, Aspect ratio - 16:10 native, Dynamic contrast ratio 2,000,000:1, 10 W speaker. Optical 1.6X lens, 1-9.3M projection distance, manual zoom/focus. Connectivity - 1 x HDMI 1.4 + 1 x HDMI 2, HDBaseT, Composite-video, VGA i/o, 3.5mm audio i/o, USB-A and USB Micro b power for optional wireless dongle, RS232 and RJ45 control. WxHxD 374 x 117 x 302mm, weight 5.5Kg. Noise 28 dB. Supplied with remote control. or similar approved	1		

25	Econo Projector Bracket (up to 10kg) -Telescopic Range - 400 to 600mm telescopic pole included or similar approved	1		
26	150" 16:10 Ratio CNV series motorised white screen with IR control & 12V trigger, 3,231 x 2,019mm. Optional Powerlite PO-SCBxB38 screen box and Kit 4 box kit available or similar approved	1		
27	B38 SCREEN BOX Internal dimensions: 188mmH x 158mmD x 3800mmL External Dimensions: 220mmH x 190mmD x 3832mmL Ceiling Opening: 200mmD x 3840 mmL. Compatible with Grandview WM-M150CNV-UHD or similar approved	1		
28	FOR USE WITH: B - Series Screen Recess Box. CNV motorised screens with B-series box or similar approved	1		
29	POE powered control system for Biamp Touch panels. POE in/out, 3 bi-directional RS232 or IR ports, 2 Uni-directional RS232 or IR ports, 8 general purpose I/O ports, 4 built in low voltage relays, ethernet port, 1 NEB port, 1 front USB port, IR learner. or similar approved	1		
30	7" AV control touch panel, fully customisable, POE powered. For use with Impera controllers. Wall bracket included or similar approved	1		
31	Liso room manager is a turnkey solution that integrates seamlessly with the existing e-mail server. No additional software is required. Installation on the server is as simple as adding a new employee to the network. Secure, reliable and easy to manage. Bright, smooth look and graphical user interface. Built in proximity sensor - changes information on the display to detailed layer when someone walks up to it. On display check in. Colour changes to indicate green-available, orange-meeting pending and red-occupied. or similar approved	1		
32	4 in / 4 out Audio Digital Signal Processor with Advanced audio processing capabilities and featuring 4 analogue inputs and 4 analogue outputs and USB Audio. RS-232, RS-485, and TCP/IP control. Dual AEC Processing. or similar approved	1		
33	6.5" black two-way loudspeaker with transformer. 16 Ohm 150W RMS, 60-30-15-6W taps at 100V. 65Hz-22KHz, 90dB @ 1W/1m and 100x50° dispersion. 3 stage overload protection, IP64 rated. Clickmount bracket system with integral spirit level and pass through connectors. or similar approved	4		
34	Convection cooled 2-channel digital amplifier. 2 x 250W at 4 Ohms or 125W at 8 Ohms. 500W bridged into 8 Ohms. Balanced and unbalanced inputs with euroblock outputs. 1U rack mount or similar approved	1		
35	8-Port POE Unmanaged Network Switch or similar approved	1		
36	SAMSUNG 75" PROFESSIONAL DISPLAY - 4K UHD, 24/7 USAGE, 500NIT BRIGHTNESS, SOC MEDIA PLAYER: SSSP 9 or similar approved	1		

37	LCD BRACKET 1200 NON-TILT. Locally manufactured non-tiltable bracket is fitted with display-levelling screws and lock-bar and is suitable for LCD's, LED's & Plasma screens: 55" to 75". Supplied with Wall anchors and mounting screws. similar approved	1		
38	Removal of old audio-visual system	1		
			<b>Sub-Total</b>	
			<b>VAT</b>	
			<b>Total</b>	

**26 SEATER CONFERENCE VENUE (TSHUKUDU ROOM)**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Ext. Price</b>
1	Fully Digital Congress System Main Unit (discussion,voting) or similar approved	1		
2	Fully Digital Congress System Chairman Unit (tabletop, 3 voting keys, 64 CHs, OLED, charcoal gray panel + black base)(mic not included) or similar approved	1		
3	Fully Digital Congress System Delegate Unit (tabletop, 3 voting keys, 64 CHs, OLED, charcoal gray panel + black base)(mic not included) or similar approved	25		
4	Stem Microphone (41 cm, semi-rigid gooseneck arm, broadcast quality microphone, with bi-color illuminated ring and lockable windshield, compatible with HCS-4100, black) or similar approved	26		
5	Basic System Setup Management Software Module compatible with HCS-4100 or similar approved	1		
6	Microphone Management Software Module compatible with HCS-4100 or similar approved	1		
7	Voting Management Software Module (including delegate management, multi-parliamentary voting, multi voting) compatible with HCS-4100 or similar approved	1		
8	Video Control Software compatible with HCS-4100 or similar approved	1		
9	Synchronous Audio Recording Management Software compatible with HCS-4100 or similar approved	1		
10	5 m 6-pin Extension Cable compatible with HCS-4100 or similar approved	4		
11	10 m 6-pin Extension Cable compatible with HCS-4100 or similar approved	4		
12	4x4 High Definition Digital Video Tracking Matrix Switcher (SD/HD/3G, support HCS-3316CK, with remote control) compatible with HCS-4100 or similar approved	1		
13	3GSDI professional video capture to USB 3.0 with aluminium enclosure or similar approved	1		
14	12X 1080p PTZ Camera with 6.3° (Tele) - 72.5° (Wide) field of view, INPUT: 3.5mm Audio, OUTPUT: 1x USB3.0, 1x HDMI, 1x SDI, CONTROL: Lan, RS-232 IO, RS422/ RS485, control using VISCA IP or Pelco-D/P commands, black. POE or 12V DC Includes remote control and choice of ceiling or wall mount bracket. or similar approved	2		
15	1 x RSA power supply, 6 cable holes supplied with 2 x HDMI 2.0, 1 x USB-C, 1 x 3.5mm audio, 1 x RJ45, 1 x USB3.0 (M-M) each 1.5m long. 2 x USB 5V charging ports. Black brushed aluminium. Slidable cover or similar approved	1		

16	HDMI2.0 Extender package consisting of a RX & TX. Extends 1080p up to 492ft(150m) and 4K2K up to 328ft(100m) over CAT6 & enables IR & RS-232 pass-through to control source or display device remotely. HDCP2.1 (and HDCP1.4), HDR, HDR10+, HLG and CEC functions supported. POC supported. 18Gbps, 4K@60Hz 4:4:4. TX INPUT 1 x HDMI. TX OUTPUT 1x HDMI, 1 x HDBase-T; RX INPUT 1 x HDBase-T, RX OUTPUT 1 x HDMI, 1x Audio. or similar approved	1		
17	4K@60Hz 4x4 HDBaseT Matrix Switcher Supports HDMI 2.0 and HDCP 2.2. Transmits 4K up to 328ft(100m) and 1080p up to 492ft(150m) on HDBaseT ports. Controllable via RS232, IR, CEC, and TCP/IP. TCP/IP control of RS232 end points. Built-in GUI for TCP/IP control. HDR and HLG are supported. EDID Management. INPUTS: 4x HDMI, 4xIR, OUTPUTS: 4x HDMI, 4x HDBaseT(POC) 4xIR OUT, 4x Coaxial and balanced analog audio outputs. Includes HDBaseT Receivers with RS232 control. or similar approved	1		
18	HDMI2.0 Extender package consisting of a RX & TX. Extends 1080p up to 492ft(150m) and 4K2K up to 328ft(100m) over CAT6 & enables IR & RS-232 pass-through to control source or display device remotely. HDCP2.1 (and HDCP1.4), HDR, HDR10+, HLG and CEC functions supported. POC supported. 18Gbps, 4K@60Hz 4:4:4. TX INPUT 1 x HDMI. TX OUTPUT 1x HDMI, 1 x HDBase-T; RX INPUT 1 x HDBase-T, RX OUTPUT 1 x HDMI, 1x Audio. or similar approved	1		
19	4k 4:4:4 HDR 60Hz 1x2 HDMI 2.0 Distribution Amplifier, HDCP 2.2. EDID management 2K X 4K 60Hz Resolution. INPUTS: 1 x HDMI. OUTPUTS: 2 x HDMI. Built in audio de-embedding to balanced, unbalanced and digital audio. or similar approved	1		
20	InFocus WUXGA projector. Light output 5,600 Lumens, laser life 30,000 hours, Display system DLP Laser phosphor, Resolution 1920 x 1200, 4K Ultra HD & HDR Support, Aspect ratio - 16:10 native, Dynamic contrast ratio 2,000,000:1, 10 W speaker. Optical 1.6X lens, 1-9.3M projection distance, manual zoom/focus. Connectivity - 1 x HDMI 1.4 + 1 x HDMI 2, HDBaseT, Composite-video, VGA i/o, 3.5mm audio i/o, USB-A and USB Micro b power for optional wireless dongle, RS232 and RJ45 control. WxHxD 374 x 117 x 302mm, weight 5.5Kg. Noise 28 dB. Supplied with remote control. or similar approved	1		
21	Econo Projector Bracket (up to 10kg) -Telescopic Range - 400 to 600mm telescopic pole included or similar approved	1		

22	150" 16:10 Ratio CNV series motorised white screen with IR control & 12V trigger, 3,231 x 2,019mm. Optional Powerlite PO-SCBXB38 screen box and Kit 4 box kit available or similar approved	1		
23	B38 SCREEN BOX Internal dimensions: 188mmH x 158mmD x 3800mmL External Dimensions: 220mmH x 190mmD x 3832mmL Ceiling Opening: 200mmD x 3840 mmL. Compatible with Grandview WM-M150CNV-UHD or similar approved	1		
24	FOR USE WITH: B - Series Screen Recess Box. CNV motorised screens with B-series box or similar approved	1		
25	POE powered control system for Biamp Touch panels. POE in/out, 3 bi-directional RS232 or IR ports, 2 Uni-directional RS232 or IR ports, 8 general purpose I/O ports, 4 built in low voltage relays, ethernet port, 1 NEB port, 1 front USB port, IR learner. or similar approved	1		
26	7" AV control touch panel, fully customisable, POE powered. For use with Impera controllers. Wall bracket included or similar approved	1		
27	Liso room manager is a turnkey solution that integrates seamlessly with the existing e-mail server. No additional software is required. Installation on the server is as simple as adding a new employee to the network. Secure, reliable and easy to manage. Bright, smooth look and graphical user interface. Built in proximity sensor - changes information on the display to detailed layer when someone walks up to it. On display check in. Colour changes to indicate green-available, orange-meeting pending and red-occupied. or similar approved	1		
28	4 in / 4 out Audio Digital Signal Processor with Advanced audio processing capabilities and featuring 4 analogue inputs and 4 analogue outputs and USB Audio. RS-232, RS-485, and TCP/IP control. Dual AEC Processing. or similar approved	1		
29	6.5" black two-way loudspeaker with transformer. 16 Ohm 150W RMS, 60-30-15-6W taps at 100V. 65Hz-22KHz, 90dB @ 1W/1m and 100x50° dispersion. 3 stage overload protection, IP64 rated. Clickmount bracket system with integral spirit level and pass through connectors. or similar approved	4		
30	Convection cooled 2-channel digital amplifier. 2 x 250W at 4 Ohms or 125W at 8 Ohms. 500W bridged into 8 Ohms. Balanced and unbalanced inputs with euroblock outputs. 1U rack mount or similar approved	1		
31	8-Port POE Unmanaged Network Switch or similar approved	1		

32	SAMSUNG 75" PROFESSIONAL DISPLAY - 4K UHD, 24/7 USAGE, 500NIT BRIGHTNESS, SOC MEDIA PLAYER: SSSP 9 or similar approved	1		
33	LCD BRACKET 1200 NON-TILT. Locally manufactured non-tiltable bracket is fitted with display-levelling screws and lock-bar and is suitable for LCD's, LED's & Plasma screens: 55" to 75". Supplied with Wall anchors and mounting screws. or similar approved	1		
34	ALF-UC1 wireless conferencing system with Multiview. INPUTS: 1x USB-C & 1x USB-A (On front panel for Dongle pairing), 1x USB-C, 3x USB-A, Supports Airplay and Miracast. OUTPUTS: 1x HDMI, 1x Audio out, 2x Ethernet ports (POE port 2), serial RS232. Optional dongles available: ALF-USBC-D, ALF-HDMI-D or similar approved	1		
35	ALF-HDMI-D wireless dongle with a HDMI and USB, for use with Alfatron ALF-UC1 or similar approved	2		
36	Removal of old audio-visual system	1		
			<b>Sub-Total</b>	
			<b>VAT</b>	
			<b>Total</b>	