



## REQUEST FOR INFORMATION (RFI) FROM VENDORS

RFI no: RFI/01/20

Date : 7<sup>th</sup> May 2020

### 1. OBJECTIVE

This is a Request for Information (RFI) from ICT vendors for equipment's to be bought for the judicial sector so that we may finalize a budget before we proceed with the request for quotation

### 2. INFORMATION REQUESTED

Interested vendors may send us the RFI after entering the prices for the equipment in the below table. All the details of the equipment are provided in the tables along with the quantity needed and the office it should be provided for.

Please note that the prices should be given with the GST included.

QTY	ITEM	SPECIFICATIONS	LOCATION	PRICE per unit
7	Computer Systems	Tower (Form Factor) Business Series PC Intel Core i5 8 <sup>th</sup> Generation or Later DDR4 4GB Monitor (Minimum 19.5 inch display size) HDMI Port Display Port Minimum 500 GB, 7.2 k rpm SATA storage Graphics integrated or dedicated Audio integrated Connectivity – Gigabit Network port, HDMI port, Display port, USB 2.0 and USB 3.0 DVD Writer Windows 10 Professional (Genuine License) Wireless Keyboard and Mouse Combo, DisplayPort Cable, HDMI Cable 3 years warranty	Family Court (2) Drug Court (2) Civil Court (1) Juvenile Court (1) Criminal Court (1)	

7	Conference Cameras	Full HD 1080P, Full HD Video Calling (upto 1920 x 1080), HD Video Calling (upto 1280 x 720) HD Zoom Camera Angel – Eye-Level Camera LED for active streaming indication Speakerphone – Integrated full duplex with echo & noise cancellation, Controls for call answer/end,volume,mute,camera movement Omnidirectional Microphone Speakers built-in Tabletop use (mount) Compatibility – Play-and-play USD connectivity Support with conferencing applications or meeting services	Family Court (2) Drug Court (2) Civil Court (1) Juvenile Court (1) Criminal Court (1)	
7	<b>USB Microphone</b>	Omnidirectional USB Boundary Microphone 360-degree audio coverage 20 feet room coverage USD cable – 10 feet Plug-and-play USD connectivity Support with video conferencing applications	Family Court (2) Drug Court (2) Civil Court (1) Juvenile Court (1) Criminal Court (1)	
<p>Programming and commissioning</p> <ul style="list-style-type: none"> <li>• Vendor should be certified by AV brands supplied</li> <li>• Manufacturers authorization to be submitted with everything</li> <li>• If alterations to the default product is required, such alterations should be provided by the supplier at free of cost.</li> <li>• A detailed operational training should be provided to the client</li> </ul>				

QTY	ITEM	SPECIFICATIONS	LOCATION	PRICE
1	Computer System	Windows 10 Pro (64-Bit) 2.2 Ghz Intel Core i5 - 9500T 6-Core 8GB DDR4 Integrated Intel UHD Graphics 630 1 x 256GB M.2 NVMe PCIe, 1 x 500 GB 2.5" SATA (7200 rpm) 4 x USB Type-A (USB 3.1 / USB 3.2 Gen 1), 2 x USB Type-A (USB 2.0) 1 x DisplayPort 1.2, 1 x HDMI 1.4, 1 x 1/8" Line Output, 1 x 1/8" Headphone/Microphone Input/Output 1 x RJ45 (Gigabit), Wifi 5 (802.11ac); Dual Band (2.4 & 5 Ghz) Must include a 19" 1080p Monitor, keyboard & Mouse	High Court	
1	PTZ Camera with USD	1080p, 720p, 1024x768,1024x576,960x540,800x600,640x360,720x576,640x480,352x288,320x240,320x180,176x144 (all resolutions should be capable of @30/25/20/15/10/5Hz) 1/2.8" HD CMOS Sensor 10x, f = 4.7 ~ 47mm Optical Zoom 6.43° (telephoto), 60.9° (wide-angle) Viewing angle Effective Pixels 2.07 MP Auto / Manual focus setting AV f1.6 – F3.0 Minimum Illumination 0.5 lm, F1.8 with Automatic Gain Control ON Signal-to-Noise (SNR) > 55dB Control Protocol VISCA/Pelco-D/Pelco-P Pan rotation ±170° Tilt rotation -30° ~ ±90° Pan control speed 0.1 – 180° / sec Tilt control speed 0.1 – 80° / sec USB 2.0 Interface for Video & Camera Control Universal PC Compatibility through standard UVC (USB Video Class) Driver Camera must be designed for soft codec applications with AV systems support USB interfacing and extension. Color: Black	High Court	
1	Digital Audio Signal Processor	128 x 128 channels of AVB 4 mic/line level inputs with AEC, 4 mic/line level outputs Gigabit Ethernet port Up to 8 channels of configurable USB audio RS-232 serial port 4-pin GPIO Rack mountable (1RU) Supports port authentication via IEEE 802.1X Internal universal power supply SIP VoIP interface via a RJ-45 connector Standard FXO telephone interface via RJ-11 connector Signal processing via intuitive software allows configuration and	High Court	

		<p>control for signal routing, mixing, equalization, filtering, delay and much more</p> <p>CE marked, UL listed, and RoHS compliant</p> <p>Warranty: Minimum 3-year warranty</p> <p>Frequency 20Hz to 20kHz, +4dBu output: +0.25 dB/-0.5 dB</p> <p>0dB gain, +4dBu input: &lt; 0.006% 54dB gain, -50dBu input: &lt; 0.040% EIN &lt; -125dBu</p> <p>Dynamic Range 22Hz to 22kHz, 0dB gain: &gt; 108dB</p> <p>Input Impedence (balanced): 8kΩ</p> <p>Output Impedance (balanced): 207Ω</p> <p>Maximum input +24dBu</p> <p>Maximum output +24dBu, +18dBu, +12dBu, +6dBu, 0dBu, -31dBu</p> <p>Input Gain Range (6dB steps): 0-66dB</p> <p>Phantom power: +48VDC (7mA/input)</p> <p>Crosstalk, channel to channel, 1 kHz: 0dB gain, +4dBu input: &lt; -85dB 54dB gain, -50dBu input: &lt; -75dB</p> <p>Sampling rate 48kHz</p> <p>A/D - D/A Converters 24-Bit</p> <p>Power consumption 100-240VAC 50/60Hz: &lt;35W</p> <p>USB Bit Depth: 16- or 24-bit Number of Channels: up to 8 Sample Rate: 48kHz</p>		
1	HDBaseT AV Transport Solution	<p>Connectivity (Transmitter)</p> <p>1 x HDMI IN 1 x HDBaseT In (on RJ45) 1 x USB Type-B 2 x USB Type-A 1 x LAN (on RJ45) 1 x RS232 Transmitter to be powered by receiver via PoE</p> <p>Connectivity (Receiver)</p> <p>1 x HDMI out 1 x HDBaseT Out (on RJ45) 2 x USB Type A 1 x LAN (on RJ45) 1 x RS232 1 x Power</p> <p>Required Features</p> <p>Only single CAT cable between for HDMI, Ethernet, Power, Control &amp; USB USB 2.0 Interfacing and extension upto 330ft 4K/UHD capability @ 60Hz with 4:2:0 chroma subsampling HDCP 2.2 Compliant</p>	High Court	
<p>Programming and commissioning</p> <ul style="list-style-type: none"> <li>• Vendor should be certified by AV brands supplied</li> <li>• Manufacturers authorization to be submitted with everything</li> <li>• If alterations to the default product is required, such alterations should be provided by the supplier at free of cost.</li> <li>• A detailed operational training should be provided to the client</li> </ul>				

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1	Digital Audio Signal Processor	<p>128 x 128 channels of AVB  4 mic/line level inputs with AEC, 4 mic/line level outputs  Gigabit Ethernet port  Up to 8 channels of configurable USB audio  RS-232 serial port  4-pin GPIO  Rack mountable (1RU)  Supports port authentication via IEEE 802.1X  Internal universal power supply  SIP VoIP interface via a RJ-45 connector  Standard FXO telephone interface via RJ-11 connector</p>	Supreme Court	

		<p>Signal processing via intuitive software allows configuration and control for signal routing, mixing, equalization, filtering, delay and much more</p> <p>CE marked, UL listed, and RoHS compliant</p> <p>Warranty: Minimum 3-year warranty</p> <p>Frequency 20Hz to 20kHz, +4dBu output: +0.25 dB/-0.5 dB</p> <p>0dB gain, +4dBu input: &lt; 0.006% 54dB gain, -50dBu input: &lt; 0.040% EIN &lt; -125dBu</p> <p>Dynamic Range 22Hz to 22kHz, 0dB gain: &gt; 108dB</p> <p>Input Impedence (balanced): 8kΩ</p> <p>Output Impedance (balanced): 207Ω</p> <p>Maximum input +24dBu</p> <p>Maximum output +24dBu, +18dBu, +12dBu, +6dBu, 0dBu, -31dBu</p> <p>Input Gain Range (6dB steps): 0-66dB</p> <p>Phantom power: +48VDC (7mA/input)</p> <p>Crosstalk, channel to channel, 1 kHz: 0dB gain, +4dBu input: &lt; -85dB 54dB gain, -50dBu input: &lt; -75dB</p> <p>Sampling rate 48kHz</p> <p>A/D - D/A Converters 24-Bit</p> <p>Power consumption 100-240VAC 50/60Hz: &lt;35W</p> <p>USB Bit Depth: 16- or 24-bit Number of Channels: up to 8 Sample Rate: 48kHz</p>		
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1	TV	<p>Screen Panel Type LED</p> <p>Display Size 55 inch</p> <p>Minimum Resolution 1080p</p> <p>Smart Feature Yes</p> <p>Speaker Yes</p> <p>Operating System Android</p> <p>Ports LAN, 3 X HDMI, 2 X USB</p> <p>Accessories 10 meter HDMI Cable, Remote</p> <p>Additional Features</p>	Supreme Court	

		<p>Streaming Services, Network File Sharing, Internet Browser, Display Mirroring, Apps</p> <p>Wall mount bracket English language supported Locally well-known brand 1 year warranty including service and parts</p>		
1	Voice Changer	<p>Options: Pitch, Formant, Robot, Character</p> <p>Character type: Direct, Auto Pitch, Vocoder, Synth, Lead, Bass, Megaphone, Radio Scatter</p> <p>Effect Type: Reverb</p> <p>Controllers: Pitch, Formant, Mx balance, Reverb, Character</p> <p>Connectors: USB port: USB type B (Audio) PHONE Jack: Stereo miniature phone type MIC IN Stereo miniature phone type MIC IN TRS phone type (balanced) MIC IN XLR type (Phantom power)</p>	Supreme Court	
1	Mic (External)	<p>XLR Phantom powered mic (Gooseneck)</p> <p>Metal based</p> <p>Base included, supports phantom power</p> <p>XLR Male to XLR Female cable for connection with voice changer</p>	Supreme Court	
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QTY	ITEM	SPECIFICATIONS	LOCATION	PRICE
1	Office 365 Business Essentials Licenses	Office 365 Business Essentials Licenses, with 1 year annual fee (250 users)	250 Courts	
1	Office 365 Business Essentials Licenses	Office 365 Business Essentials Licenses, with 1 year annual fee (35 users)	35 court rooms	

### 3. CLOSING DATE

A completed RFI with requested attachments must be submitted to :

[proc.mv@undp.org](mailto:proc.mv@undp.org)

UNDP Maldives

H.Aage, 4th Floor

Addressed to Hussain Adhuham

They should be received no later than 14th May 2020 .