# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply and delivery of ICT Hardware and Software to the Kosovo Specialist Chambers (KSC) p 1 /…**

**Publication reference: KSCR/PROC/2023-2025/1035**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

**Refurbished items:**

Refurbished items are permitted to be offered in the following circumstances and under the following conditions:

* Refurbished items can only be offered for products that are discontinued
* If the offered item is refurbished it but must be clearly indicated in **Specifications Offered**
* Any offered refurbished equipment is to be delivered with same warranty as new products.

**Warranties:**

Manufacturer warranties:

* Minimum warranty for consumables and equipment: 1 Year
* Minimum warranty for computers, monitors, and network devices: 3 years

(Additional) Commercial warranties:

* As per the requested tenderer’s offer for after-sales, as part of their technical proposal.

**Delivery:**

Timely delivery of supplies: DDP to the KSC, The Hague, within 7 days after confirmed order form. Delivery delays to be announced, and approved, in writing, and inadvance of the delivery deadline, in order to remain eligible for regular and undisputed payment.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| 1 | Multi Media card reader/writer, compatible with USB 3.0. |  |  |  |
| 2 | 1 Meter Lightning cable suitable for Apple products with ac adapter |  |  |  |
| 3 | SD Card 32Gb Micro SDHC Class 10 |  |  |  |
| 4 | Clean Room Sticky Mats White 18" x 36" |  |  |  |
| 5 | Anti Static Bags 305x406mm |  |  |  |
| 6 | Optical Fiber Connector Cleaning Cassette |  |  |  |
| 7 | Velcro Width: 20mm, Roll 10 Meters, Color: Black |  |  |  |
| 8 | Fiber Optic Patch cable LC/SC, 50/125, 15m |  |  |  |
| 9 | Fiber Optic Patch cable LC/LC, 50/125, 5m |  |  |  |
| 10 | Backup tapes LTO6 |  |  |  |
| 11 | Replacement battery cartridge, Compatible with APC Smart-UPS 230/380V 10kVA and 8kVA, contains 2 battery modules (Equivelant to APCRBC140) |  |  |  |
| 12 | Caged nuts M6, including bolts, 12mm, pack of 50 |  |  |  |
| 13 | Caged nuts M5, including bolts, 12mm, pack of 50 |  |  |  |
| 14 | Backup tapes LTO5 |  |  |  |
| 15 | Wireless Laser Barcode Scanner Connectivity Cordless; Connection USB; Communication Range less than 33 ft; Scanner Type Imager; Form Factor Handheld; Scanner Capability 1D; Scan Pattern LED Beam; Included Cables USB; Communication Type Bluetooth; Ruggedness General Purpose; Rechargable |  |  |  |
| 16 | Wireless Optical mouse, 2 buttons + scroll, USB receiver Bluetooth 4.x |  |  |  |
| 17 | Wireless Keyboard, Windows compatible, US/UK layout, USB receiver, Bluetooth 4.x |  |  |  |
| 18 | Colour Barcode Printer, 4.25” max. width, USB and Ethernet RJ45 connectivity. |  |  |  |
| 19 | Barcode labels , 4.25” max. width, B/W |  |  |  |
| 20 | 8GB DDR3 RAM modules, must be compatible with HP ProDesk 400 Gen5 |  |  |  |
| 21 | Power adapter for Lenovo T440p (FRU/PN 45N0499) |  |  |  |
| 22 | Rechargeable Li-ion 57+ Battery for Lenovo T440p, output voltage 10.8V, compatible with FRU 45N1769 |  |  |  |
| 23 | **HDMI to SDI converter (x2)**  [AJA OG-Ha5-4K](https://www.fofic.nl/og-ha5-4k-4k-hdmi-to-4x3g-sdi-69371327.html) **(or equivalent)**  Four 3G-SDI outputs, the openGear compatible OG-HA5-4K enables high quality conversion of HDMI 2.0 video from DSLRs, mirrorless cameras, action cameras, or prosumer 4K video cameras to 4K/UltraHD 3G-SDI for use in professional workflows. openGear compatible card. Supports HDMI 2.0 up to 60p4x 3G-SDI outputs  HDR Info.frame analysis. Embedded audio support. Use with openGear 2RU frames including AJA's OG-3-FR frame. |  |  |  |
| 24 | Stacking and 10GE CX4 Cables HP, type 44477-B23 or compatible; |  |  |  |
| 25 | SFP+ TenGigabit Ethernet modules HP, type type 455883-B23 or compatible; |  |  |  |
| 26 | Raid Controller Backup Battery HP server, type 462969-B21 or compatible; |  |  |  |
| 27 | SDI to HDMI converters (x2)  [AJA OG-Hi5-4K](https://www.fofic.nl/og-hi5-4k-plus-4x3g-sdi-to-hdmi-20-with-4-69371330.html) (or equivalent)   * OpenGear compatible card.4x 3G-SDI inputs. Support for 4:2:2/4:4:4 HDMI 2.0 output. HDR support for HDR 10 and HLG. Embedded audio support |  |  |  |
| 28 | Up, down, cross-converter (x2)  AJA OG-UDC (or equivalent)  10-bit broadcast quality up, down, cross-converter that bridges HD and SD video resolutions. The OG-UDC provides 3G-SDI input and output, HDMI output and two 3-pin terminal block connectors for analog audio Outputs. OpenGear compatible card. Supports 1080p50/60.2x 3-Pin Terminal Block connectors (included).16-channel embedded SDI audio input and output. Use with openGear 2RU frames including AJA's OG-3-FR frame. Reference Input |  |  |  |
| 29 | SFF HDD 900GB, 6Gbps SAS, 10000rpm, (new or refurbished, compatible with HP MSA2040 and D2700) **in bracket with status indicator.** |  |  |  |
| 30 | HDMI 2.0 to SDI Converters with looping input and dual output and built-in Interlacer for 1080p Input / 1080i output (x5)  Apantac LLC OG-DA-HDTV-SDI-UHD (or equivalent) |  |  |  |
| 31 | 600GB 10K 6Gbps SAS 2.5-inch SFF Hot-Swap hard drive, new or refurbished, compatible with IBM System X |  |  |  |
| 32 | 900GB 10K 6Gbps SAS 2.5-inch SFF Hot-Swap hard drive, new or refurbished, compatible with IBM System X |  |  |  |
| 33 | CPU upgrade kit CPU 3.2GHz/8-core/25MB/135W compatible with Intel Xeon E5-2667v4, new or refurbished, compatible with HP DL380 Gen9 |  |  |  |
| 34 | 32GB Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit, refurbished or compatible with HP DL380 |  |  |  |
| 35 | Portable projector, for use in the field  Portable, maximum weight: 500g  Minimum native resolution: 640 x 480  Maximum resolution: 1280 x 800  Aspect ratio: 16:9 (native), 4:3 (compatible)  Contrast ratio: 1000:1  Lamp life: 20,000 hours (normal operation)  Lamp type: LED  Focus control: manual  Inputs: HDMI, USB, Audio Line In  Integrated speakers, stereo  Speaker output power: 2W  Integrated battery with 2 hour run-time  Compatible with Windows PC  Delivered with power adapter, HDMI cable, carrying case |  |  |  |
| 36 | Field scanner, compact, A4 Color scan, single-pass duplex sheetfeed, feeder capacity: 30 sheets, scaning speed color: 25ppm/50ipm, optical resolution: 600dpi, interface: USB 2 or USB 3, weight: aprox. 2.6kg, powered through the USB port, dimensions (maximal, trays closed): 300x160x220 mm |  |  |  |
| 37 | Field scanner, portable, A4 Color scan, single-pass duplex sheetfeed, feeder capacity: 20 sheets, scaning speed color 24 bit (simplex/duplex): 10/20ppm, optical resolution: 600dpi, interface: USB 2 or USB 3, weight: aprox. 1kg, powered through the USB port, dimensions (maximal, trays closed): 220x340x55 mm |  |  |  |
| 38 | Microphone, USB, 16-Bit, 44.1- 48kHz sample rates, Miniature, low-profile design, omni-directional pickup pattern, 10-foot USB cable included |  |  |  |
| 39 | USB drive 8/16/32/64 GB (non-encrypted) |  |  |  |
| 40 | Encrypted USB stick, 10 Buttons, 8/16/32/64 GB, USB 3.x, Military grade Full-disk AES 256-bit CBC Hardware Encryption, Crypto-parameters protected with SHA-256 hashing, Tamper evident and resistant, Auto-lock on removal, PIN activated 7-15 digits, numeric keypad, Brute Force Hack Defence Mechanism, Dust and water resistant housing certified to IP57 rating, Supports Admin and User independent PINs, No software or drivers required, USB powered, DataShure or Equivalent |  |  |  |
| 41 | USB based two factor authentication Supporting FIDO U2F,Secure Static Passwords, smart card (PIV), Yubico OTP, Code Signing, OpenPGP, OATH-TOTP, OATH-HOTP, Challenge-Response, Keychain model, HID Keyboard, CCID Smart card; Cryptography: RSA 2048, RSA 4096, ECC p256, ECC p384.USB-A connector. |  |  |  |
| 42 | USB HUB - USB 3.x, outputs: 4 USB ports, no additional power needed |  |  |  |
| 43 | 1 yr post warranty Next Business Day onsite HW Support w/Defective Media Retention for Desktops (HP710PE) |  |  |  |
| 44 | 1 yr post warranty Next Business Day onsite HW Support w/Defective Media Retention for Cisco Network Appliances |  |  |  |
| 45 | Switch Cisco WS-C3850-12XS (or compatible) |  |  |  |
| 46 | Stack Cable for WS-C3850-12XS (or compatible) |  |  |  |
| 47 | Power Stack Cable for WS-C3850-12XS (or compatible) |  |  |  |
| 48 | Power Supply for WS-C3850-12XS (or compatible) |  |  |  |
| 49 | Switch WS-C2960X-48FPD-L, switch, 48 x Gigabit, PoE, 2x SPF+, 740W (or compatible) |  |  |  |
| 50 | DWDM Glass Fiber Multiplexer 8 Channel (passive) |  |  |  |
| 51 | DWDM SFP, SPF+ tranceivers coded for HP, Cisco, EMC |  |  |  |
| 52 | SFP Fibrechannel 4G modules for Cisco, HP |  |  |  |
| 53 | IBM Server power supply 900W, new or refurbished, compatible with IBM x3500 (PN: 94Y8066) |  |  |  |
| 54 | 1 yr post warranty Next Business Day onsite HW Support w/Defective Media Retention for HP DL380 Gen9 server |  |  |  |
| 55 | 16 GB (Dual-Rank x4) 1.5 V PC3-12800 CL11 ECC DDR3 1600 MHz LP RDIMM, new or refurbished, compatible with IBM System x3500 M4 |  |  |  |
| 56 | 2-in-1 Notebook (Surface Pro or equivalent)  Software: Windows 10 Pro  Buttons: Volume and Switch on  Weight: No more than 850 grams  Storage: SSD 256 GB  Screen: PixelSense, 12,3", resolution 2736 x 1824 (267 PPI)  Tactile: multi-touch 10 points  Battery: Up to 9 hours for playing video  Processor: Intel Quad-Core 10th generation, 3.7Ghz  Firmware TPM  Graphic card: Integrated  Memory: 8 GB RAM  Wireless Network: Wi-Fi 802.11ax; Bluetooth 5.0  Ports: 1xUSB-C, 1xUSB-A, micro SD reader, 3.5 mm headphone jack  Video Cameras: Frontal of 5 MP HD 1080p, Back with autofocus 8 MP HD 1080p |  |  |  |
| 57 | Docking station compatible with Surface Pro 5/6/7, Ports: 4 x USB 3.0, 2 x Mini Display Port, Ethernet, power |  |  |  |
| 58 | Microphone stand  Tripod boom microphone stand holds microphone securely in place (microphone clip sold separately)  Long boom arm with molded plastic counterweight for horizontal placement  Versatile design folds flat for use as straight mic stand  steel construction; ultra-light for easy transport  Compatible with 3/8-inch to 5/8-inch adapter; clip-on cable holder keeps cords out of the way |  |  |  |
| 59 | Microphone Wireless System for Dynamic Microphone  XLR transmitter and receiver.works with any dynamic/Harmonic microphone or battery-powered condenser microphones. plug-on, turn your favorite Mics into wireless Mics  Rechargeable batteries with up to 5 hours of battery life or both receiver and transmitter units  Utilizing the 2.4GHz wireless band, With its high dynamic range and wide frequency response, you're assured high-quality audio  Up to 90 feet of wireless range (dependent on environmental factors)  Broadcasts on 6 channels simultaneously, and is suitable for live vocals, presentations, video productions, and houses of worship  (Comparable or equivalent to Xvive U3) |  |  |  |
| 60 | Microphone Wireless System for Dynamic Microphone  XLR transmitter and receiver.works with any dynamic/Harmonic microphone or battery-powered condenser microphones. plug-on, turn your favorite Mics into wireless Mics  Rechargeable batteries with up to 5 hours of battery life or both receiver and transmitter units  Utilizing the 2.4GHz wireless band, With its high dynamic range and wide frequency response, you're assured high-quality audio  Up to 90 feet of wireless range (dependent on environmental factors)  Broadcasts on 6 channels simultaneously, and is suitable for live vocals, presentations, video productions, and houses of worship  (Comparable or equivalent to Xvive U3) |  |  |  |
| 61 | 37.5” Computer monitor  Display diagonal: 95.2 cm (37.5 ")  Resolution: 3840 x 1600 pixels  HD type: Ultra-Wide Quad HD +  Display technology: IPS  Display: LED  Display surface: Matt  Response time: 5 ms  Brightness: 300 cd / s m²  Native aspect ratio: 21: 9  Viewing angle, horizontal: 178 °, vertical: 178 ° Built-in speakers  Built-in USB hub  USB hub version: USB 3.0 (3.1 Gen 1)  Color of product: Black  (Comparable or equivalent product: DELL UltraSharp U3818DW 37.5" Ultra-Wide Quad HD+ IPS Mat black computer monitor LED display) |  |  |  |
| 62 | Mobile printer  Portable inkjet colour printer  Input tray capacity: 50 sheets.  Media type: A4, A5, A6, Letter.  Print resolution: 600dpi.  USB connectivity. |  |  |  |
| 63 | Black tonner suitable for HP M880 |  |  |  |
| 64 | Cyan tonner suitable for HP M880 |  |  |  |
| 65 | Magenta tonner suitable for HP M880 |  |  |  |
| 66 | Yellow tonner suitable for HP M880 |  |  |  |
| 67 | Cyan drum suitable for HP M880 |  |  |  |
| 68 | Magenta drum suitable for HP M880 |  |  |  |
| 69 | Yellow drum suitable for HP M880 |  |  |  |
| 70 | Transfer kit suitable for HP M880 |  |  |  |
| 71 | Black drum suitable for HP M880 |  |  |  |
| 72 | Fuser kit 220V suitable for HP M880 |  |  |  |
| 73 | WeTransfer Pro 1 year license |  |  |  |
| 74 | Behringer WING 48-Channel Full Stereo Digital Mixer |  |  |  |
| 75 | Native Instruments Komplete 13 Ultimate Coll. Ed. Plugin collection |  |  |  |
| 76 | Panasonic  AW-HE145KEJ camera |  |  |  |
| 77 | Crestron Pro4 Control system |  |  |  |
| 78 | MAX+ Cart on 10″ wheels |  |  |  |
| 79 | RH Logic 400 Ergonomic chair |  |  |  |
| 80 | Allen and Heath SQ5 digital mix table |  |  |  |
| 81 | WD Gold, 22TB drive |  |  |  |