**Section II: Schedule of Requirements**

E-Sourcing reference: ITB/2021/38060

1. **Summary of Requirements for Various Electronic and ICT equipment**

UNOPS requirements are comprised of the following:

**Set of various Electronic and ICT equipment for green rooms (as further described in the table B. Technical Specification for Goods and comparative data table including the below items) – 30, 60, 92 sets.**

Item 1. Multi-function printing device – 1 PCS

Item 2. USB Cable – 1 PCS

Item 3. Desktop computer – 1 PCS

Item 4 . Set of keyboard (en/ru/ua) and optical mouse, USB 2.0 interface – 1 PCS

Item 5 . Video cable Displayport to HDMI (AM/AM), 1.8 meters long – 1 PCS

Item 6. Portable Blu-ray combo burner for Windows and Mac OS – 1 PCS

Item 7. Computer Display – 1 PCS

Item 8. UPS – 1 PCS

Item 9. Power distribution panel for the rack case – 1 PCS

Item 10. Sound bar – 1 PCS

Item 11 . LED LCD TV Trolley Cart Portable Wheel Stand for presentations, Office, Portable, Home (Vogel PFT 8520/PUC 2715/PFB 3407/PFS 3304 or equivalent) – 1 set

Item 12. TV Set – 1 PCS

Item 13. HDMI Cable – 1 PCS

Item 14. Headphones amplifier (Behringer HA400 or equivalent) - 1 PCS

Item 15. Professional Studio Headphones (AKG K 240 or equivalent) – 8 PCS

Item 16. Audio cable – 1 PCS

Item 17. Audio Cable adapter – 1 PCS

Item 18. IP Security camera – 1 PCS

Item 19. IP Security camera – 1 PCS

Item 20. IP Security camera – 1 PCS

Item 21. Microphone for professional audio surveillance – 2 PCS

Item 22. Software license (Milestone XProtect Express+ Base License) – 1 PCS

Item 23 . Software license (Milestone XProtect Express+ Device License) – 3 PCS

Item 24. PoE Network Switch – 1 PCS

Item 25. Audio extension cable for surveillance microphone – 2 PCS

Item 26. Twisted pair cable – 120 m

Item 27. RJ-45 jack Cat5e connector – 20 PCS

Item 28. Set of dowels (8х60mm) for concrete walls – 200 PCS

Item 29. EXTREME WALKIE-TALKIES (Motorla Talkabout T82 or equivalent) – 1 set (pair)

1. **Technical specifications for Goods and comparative data tables**

|  |  |  |  |
| --- | --- | --- | --- |
| **N** | **UNOPS requirements for the set of the IT equipment.**  **Each set is consisted of the following items and item quantities:** | **Is quotation compliant? Bidder to complete** | **Details of goods offered. Bidder to complete** |
| **1** | **Multi-function printing device – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 1.1 | Printing size: A4 | ☐ Yes ☐ No |  |
| 1.2 | Color: Monochrome | ☐ Yes ☐ No |  |
| 1.3 | Functions: Copy, Email, Fax, Print, Scan | ☐ Yes ☐ No |  |
| 1.4 | Connection type: Ethernet, USB, Wi-Fi | ☐ Yes ☐ No |  |
| 1.5 | Printing speed: 40 pages per minute | ☐ Yes ☐ No |  |
| 1.6 | Printing technology: Laser | ☐ Yes ☐ No |  |
| 1.7 | Printing resolution: 600x600dpi | ☐ Yes ☐ No |  |
| 1.8 | Recommended monthly print scale 5000 prints | ☐ Yes ☐ No |  |
| 1.9 | Two-sided printing: Yes | ☐ Yes ☐ No |  |
| 1.10 | Scanner: A4, Automatic supply tray for scanning with reversing automatic doc feeder, min. 30 pages output tray capacity | ☐ Yes ☐ No |  |
| 1.11 | Scan resolution, min.: 600x600 | ☐ Yes ☐ No |  |
| 1.12 | Scan destinations: USB, Scan to email, Scan to local PC, Scan to folder | ☐ Yes ☐ No |  |
| **2** | **USB Cable – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 2.1 | USB-A to USB-B USB2.0 Cable, 3 meters cable length | ☐ Yes ☐ No |  |
| **3** | **Desktop computer – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 3.1 | CPU Intel® Core™ I5 10th Gen or equivalent/better | ☐ Yes ☐ No |  |
| 3.2 | Display connection interface, compatible with Monitor - item 4 in this specification | ☐ Yes ☐ No |  |
| 3.3 | HDD min. 2 Tb SATA III (7200RPM) | ☐ Yes ☐ No |  |
| 3.4 | SSD min 240 GB | ☐ Yes ☐ No |  |
| 3.5 | RAM min. 16 Gb DDR | ☐ Yes ☐ No |  |
| 3.6 | Discrete graphics with min 6GB graphics memory | ☐ Yes ☐ No |  |
| 3.7 | Middle Tower | ☐ Yes ☐ No |  |
| 3.8 | Power unit min. 500W | ☐ Yes ☐ No |  |
| 3.9 | USB 3.0 | ☐ Yes ☐ No |  |
| 3.10 | Computer headset for video conferencing (headphones with a microphone) | ☐ Yes ☐ No |  |
| 3.11 | OS Windows 10 | ☐ Yes ☐ No |  |
| **4** | **Set of keyboard (en/ru/ua) and optical mouse, USB 2.0 interface – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| **5** | **Video cable Displayport to HDMI (AM/AM), 1.8 meters long – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| **6** | **Portable Blu-ray combo burner for Windows and Mac OS – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| **7** | **Computer Display – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 7.1 | Screen diagonal – min 24 inches | ☐ Yes ☐ No |  |
| 7.2 | LCD matrix type IPS | ☐ Yes ☐ No |  |
| 7.3 | Image size: 16:9 | ☐ Yes ☐ No |  |
| 7.4 | Response time max 5ms | ☐ Yes ☐ No |  |
| 7.5 | Resolution: min Full HD (1920x1080) | ☐ Yes ☐ No |  |
| 7.6 | Screen refresh rate: min 75 Hz | ☐ Yes ☐ No |  |
| 7.7 | Contrast (static contrast), min: 1000:1 | ☐ Yes ☐ No |  |
| 7.8 | Display surface: anti-glare | ☐ Yes ☐ No |  |
| 7.9 | Compatibility: with item 3, Desktop computer in terms of connectivity and operability | ☐ Yes ☐ No |  |
| 7.10 | Ergonomy: Height adjustment, Tilt | ☐ Yes ☐ No |  |
| **8** | **UPS – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 8.1 | Type: Line-interactive | ☐ Yes ☐ No |  |
| 8.2 | Power, W: minimum 700 W | ☐ Yes ☐ No |  |
| 8.3 | Input voltage: within the range of 160-280 V | ☐ Yes ☐ No |  |
| 8.4 | Number of sockets: min. 4 | ☐ Yes ☐ No |  |
| 8.5 | Socket type: Shuko or C13 | ☐ Yes ☐ No |  |
| **9** | **Power distribution panel for the rack case – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 9.1 | Rack Size 1U | ☐ Yes ☐ No |  |
| 9.2 | 9x Shuko plugs | ☐ Yes ☐ No |  |
| 9.3 | Total power 16A | ☐ Yes ☐ No |  |
| 9.4 | cable length 3 m | ☐ Yes ☐ No |  |
| 9.5 | Rack installation mounts included | ☐ Yes ☐ No |  |
| **10** | **Sound bar – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 10.1 | Connectivity USB | ☐ Yes ☐ No |  |
| 10.2 | Power output (peak) min 10 W | ☐ Yes ☐ No |  |
| 10.3 | Power output (RMS) min 5 W | ☐ Yes ☐ No |  |
| 10.4 | Speaker impedance 4 Ohm | ☐ Yes ☐ No |  |
| 10.5 | Interfaces: Audio input 3.5 mm, Line-in, Audio output 3.5 mm, Headphone connection, Microphone connection | ☐ Yes ☐ No |  |
| **11** | **LED LCD TV Trolley Cart Portable Wheel Stand for presentations, Office, Portable, Home (Vogel PFT 8520/PUC 2715/PFB 3407/PFS 3304 or equivalent) – 1 set** | ☐ Yes ☐ No | Insert details (brand and model) |
| 11.1 | Lockable wheel | ☐ Yes ☐ No |  |
| 11.2 | Scren size supported: 32-70" | ☐ Yes ☐ No |  |
| 11.3 | Load capacity: up to 45 kg | ☐ Yes ☐ No |  |
| **12** | **TV Set – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 12.1 | Screen size 55 Inches | ☐ Yes ☐ No |  |
| 12.2 | Resolution 3,840 X 2,160 (UHD) | ☐ Yes ☐ No |  |
| 12.3 | Brightness: 400 cd/m2 | ☐ Yes ☐ No |  |
| 12.4 | TV Reception: DVB-T2 / C / S2 | ☐ Yes ☐ No |  |
| 12.5 | Interfaces: HDMI In (2.0), USB (2.0), CI Slot, HDMI In (HDCP (2.0)), RF In 2, Digital Audio Out (Optical), VGA, RJ45 (Ethernet), | ☐ Yes ☐ No |  |
| **13** | **HDMI Cable – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 13.1 | C-HM/HM-10 Cable, supports 4k Resolution on 60Hz | ☐ Yes ☐ No |  |
| **14** | **Headphones amplifier (Behringer HA400 or equivalent) - 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 14.1 | Brand name manufacturer | ☐ Yes ☐ No |  |
| 14.2 | Headphone amplifier system for studio and stage application | ☐ Yes ☐ No |  |
| 14.3 | 4 independent stereo high-power amplifier sections | ☐ Yes ☐ No |  |
| 14.4 | Highest audio quality with virtually all types of headphones even at maximum volume | ☐ Yes ☐ No |  |
| 14.5 | Phones Level control per channel | ☐ Yes ☐ No |  |
| 14.6 | DC 12 V adapter included | ☐ Yes ☐ No |  |
| 14.7 | High-quality components | ☐ Yes ☐ No |  |
| 14.8 | Rugged construction | ☐ Yes ☐ No |  |
| **15** | **Professional Studio Headphones (AKG K 240 or equivalent) – 8 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 15.1 | Headphone type: semi-open | ☐ Yes ☐ No |  |
| 15.2 | Max. Input Power: 200 mW | ☐ Yes ☐ No |  |
| 15.3 | Sensitivity headphones: 104 dB SPL/V | ☐ Yes ☐ No |  |
| 15.4 | Rated Impedance: 55 Ohms | ☐ Yes ☐ No |  |
| 15.5 | Detachable cable: yes Cable Length: 3 m | ☐ Yes ☐ No |  |
| 15.6 | Earpads replaceable: yes | ☐ Yes ☐ No |  |
| 15.7 | Audio Specifications Maximum input power: 200 mW | ☐ Yes ☐ No |  |
| 15.8 | Audio frequency bandwidth: 15 - 25000 Hz | ☐ Yes ☐ No |  |
| 15.9 | Net Weight: up to 270 g | ☐ Yes ☐ No |  |
| 15.10 | Audio Interface Type: Stereo plug – 3.5mm (1/8-inch) with 6.3 mm (1/4”) screw-on adapter | ☐ Yes ☐ No |  |
| 15.11 | Gender: Male | ☐ Yes ☐ No |  |
| 15.12 | Contacts: 3-pin Cable Detachable, Wearing Style Over-ear, | ☐ Yes ☐ No |  |
| 15.13 | Application: Studio Mixing, Hi-Fi Listening | ☐ Yes ☐ No |  |
| **16** | **Audio cable – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 16.1 | Jack 6.3 —Jack 6.3 2.5m (Cordial CPM 2,5 VV or equivalent) | ☐ Yes ☐ No |  |
| **17** | **Audio Cable adapter – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 17.1 | Goobay Jack 3.5mm 3pin-6.3mm M/F 0.2m Stereo | ☐ Yes ☐ No |  |
| **18** | **IP Security camera – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 18.1 | Zipstream supporting H.264 and H.265 | ☐ Yes ☐ No |  |
| 18.2 | Bullet type | ☐ Yes ☐ No |  |
| 18.3 | CMOS sensor, not smaller than 1/3 | ☐ Yes ☐ No |  |
| 18.4 | Resolution 1920x1080 | ☐ Yes ☐ No |  |
| 18.5 | Min Illumination color 0.05 lux | ☐ Yes ☐ No |  |
| 18.6 | PoE class 3 | ☐ Yes ☐ No |  |
| **19** | **IP Security camera – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 19.1 | Zipstream supporting H.264 and H.265 | ☐ Yes ☐ No |  |
| 19.2 | Bullet type | ☐ Yes ☐ No |  |
| 19.3 | CMOS sensor, not smaller than 1/3 | ☐ Yes ☐ No |  |
| 19.4 | Resolution 2592x1944 | ☐ Yes ☐ No |  |
| 19.5 | Min Illumination color 0.13 lux | ☐ Yes ☐ No |  |
| 19.6 | PoE class 3 | ☐ Yes ☐ No |  |
| **20** | **IP Security camera – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 20.1 | HDTV 1080p video quality | ☐ Yes ☐ No |  |
| 20.2 | Dome type (for ceiling mounting) |  |  |
| 20.3 | WDR and Day/night functionality | ☐ Yes ☐ No |  |
| 20.4 | HDMI output and built-in microphone | ☐ Yes ☐ No |  |
| 20.5 | Zipstream supporting H.264 and H.265 | ☐ Yes ☐ No |  |
| 20.6 | CMOS sensor, not smaller than 1/3 | ☐ Yes ☐ No |  |
| 20.7 | Resolution 1920x1080 | ☐ Yes ☐ No |  |
| 20.8 | PoE class 1 | ☐ Yes ☐ No |  |
| 20.9 | Min Illumination color 0.2 lux | ☐ Yes ☐ No |  |
| **21** | **Microphone for professional audio surveillance – 2 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 21.1 | Discreet and compact | ☐ Yes ☐ No |  |
| 21.2 | Omnidirectional | ☐ Yes ☐ No |  |
| 21.3 | Outstanding dynamic range | ☐ Yes ☐ No |  |
| 21.4 | Low noise | ☐ Yes ☐ No |  |
| 21.5 | 3.5 mm microphone connector | ☐ Yes ☐ No |  |
| 21.6 | Accessory: mounting accessory included | ☐ Yes ☐ No |  |
| **22** | **Software license (Milestone XProtect Express+ Base License) – 1 PCS** | ☐ Yes ☐ No |  |
| **23** | **Software license (Milestone XProtect Express+ Device License) – 3 PCS** | ☐ Yes ☐ No |  |
| **24** | **PoE Network Switch – 1 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 24.1 | 9-Port Unmanaged Desktop Switch | ☐ Yes ☐ No |  |
| 24.2 | 8x10/100 PoE ports | ☐ Yes ☐ No |  |
| 24.3 | 1xGigabit port | ☐ Yes ☐ No |  |
| 24.4 | Switch fabric 3.5 Gbps | ☐ Yes ☐ No |  |
| 24.5 | up to 2k MAC addresses | ☐ Yes ☐ No |  |
| 24.6 | PoE power budget 117W | ☐ Yes ☐ No |  |
| **25** | **Audio extension cable for surveillance microphone – 2 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| 25.1 | Audio extension cable for 3.5mm mono microphones. Length 5m | ☐ Yes ☐ No |  |
| **26** | **Twisted pair cable – 120 m** | ☐ Yes ☐ No | Insert details (brand and model) |
| 26.1 | CAT5E UTP Network Cable | ☐ Yes ☐ No |  |
| **27** | **RJ-45 jack Cat5e connector – 20 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| **28** | **Set of dowels (8х60mm) for concrete walls – 200 PCS** | ☐ Yes ☐ No | Insert details (brand and model) |
| **29** | **EXTREME WALKIE-TALKIES (Motorla Talkabout T82 or equivalent) – 1 set (pair)** | ☐ Yes ☐ No | Insert details (brand and model) |
| 29.1 | PMR446 radios - license free | ☐ Yes ☐ No |  |
| 29.2 | Weatherproof IPx4 | ☐ Yes ☐ No |  |
| 29.3 | Easy pairing for simple group call set-up | ☐ Yes ☐ No |  |
| 29.4 | Hidden display gives radio status | ☐ Yes ☐ No |  |
| 29.5 | LED torch | ☐ Yes ☐ No |  |
| 29.6 | 16 channels\* plus 121 privacy codes | ☐ Yes ☐ No |  |
| 29.7 | Dual power - AA standard alkaline batteries or rechargeable NiMH batteries (included) | ☐ Yes ☐ No |  |
| 29.8 | USB charging | ☐ Yes ☐ No |  |
| 29.9 | Vibrate alert | ☐ Yes ☐ No |  |
| 29.10 | Hands-free | ☐ Yes ☐ No |  |
| 29.11 | Up to 7 km range | ☐ Yes ☐ No |  |
| **30** | **General requirements (applicable to all the above items)** | ☐ Yes ☐ No |  |
| **30.1** | **Interface language (software) of the devices shall be English or Ukrainian. Software must be accompanied by user manual in English or Ukrainian** | ☐ Yes ☐ No |  |
| **30.2** | All mentioned equipment should be new. All mentioned equipment and software should be supplied together with all drivers and connection cables foreseen by the design that is to enable its use as part of hardware complexes. | ☐ Yes ☐ No |  |
| **30.3** | **The period of validity of the Warranty. The warranty shall remain valid for 12 months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination. The Warranty should include preventive maintenance, replacement of defective parts/equipment, repair of equipment, labour for equipment repair and/or parts replacement.** | ☐ Yes ☐ No |  |
| **30.4** | **Warranty service. Within the warranty period, the Supplier or its authorized service centre shall provide maintenance and/or repair services to the equipment operation site not later than 10 (ten) workdays from the date of receipt of written or E-mail notification from an authorized party. The name of the company, address, telephone- and fax numbers, e-mail address must be mentioned in the bid. The service centre shall have at least one certified engineer in its staff. All costs connected with warranty maintenance are covered by the Supplier.** | ☐ Yes ☐ No | Please indicate name and address of the service center (s) |
| **30.5** | **Technical documentation for maintenance and repair of the supplied goods. For each offered item, the Bidder shall provide the technical documentation for performing maintenance and operating repair of the supplied Goods by the technical staff of the Consignee and/or end-users. Such documentation shall include all necessary electrical diagrams, drawings, technical specifications of the devices and their parts, troubleshooting information, safety instructions, etc. that will allow the technical staff of the Consignee and/or end-users to conduct maintenance and operating repair in strict compliance with Goods specifications. The minimum set of technical documents to be provided with each piece of equipment delivered is the following: • User Manual and Operating Instructions (in Ukrainian) • Technical Certificate / maintenance guidelines (in Ukrainian or English) The Bidder is required to confirm the list and contents of documentation to be provided together with the Goods at the delivery. All tags/labels on the equipment shall be in English or Ukrainian language.** | ☐ Yes ☐ No |  |
| **30.6** | **Bid includes total gross weight of the goods in kg and total volume in m3.** | ☐ Yes ☐ No |  |
| **30.7** | **Bid includes brand/model of the equipment and manufacturer's technical literature/catalog, all confirming that the offered items comply with required specifications.** | ☐ Yes ☐ No |  |

**C. Delivery requirements and Comparative Data Table.**

|  |  |  |  |
| --- | --- | --- | --- |
| **UNOPS Requirements** | | **Is bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| **Delivery time** | Bidder shall deliver the goods within **120 calendar days** after Contract signature. | Yes  No | Insert details |
| **Delivery place and Incoterms rules** | DAP Customs cleared Kyiv, Ukraine | Yes  No |  |
| **Consignee details** | UNOPS  TSOP NPU, Svyatoshinska Str. 27, Kyiv, Ukraine | Yes  No |  |
| **UNOPS Right to vary requirements** | At the time the Contract is awarded, UNOPS reserves the right to vary the quantity of the goods and associated services specified above, provided this does not exceed +/- 20%, without any change in the unit prices or other terms and conditions of the ITB. | Yes  No |  |
| **Warranty** | Bidder shall remain liable for the packing and consistency of the items supplied for the period of shipment and acceptance for use. Any items found unacceptable shall be returned and changed at no costs to UNOPS. | Yes  No |  |
| **Packing standards** | Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. | Yes  No |  |

**D. Sustainability requirements** **(main tender)**

|  |  |  |  |
| --- | --- | --- | --- |
| **UNOPS Requirements** | | **Is bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| **Sustainability Requirements - Materials** | The bidder will ensure that the product do not use or contain any materials or chemicals that are considered to be toxic to human health or the natural environment. Bidders should provide documentation that outlines: what chemicals or materials are included in the product (e.g. Material Safety Data Sheets), which of those chemicals or materials are considered hazardous to human health or the natural environment (if any). | Yes  No | Insert details |
| **Sustainability Requirements - Suppliers commitment to gender equality** | The bidder shall provide a response that demonstrates its commitment to support gender equality and women’s empowerment through its operations. The bidder must provide a clear statement and supporting documentation that outlines how gender is mainstreamed internally. This should include for example the organization's current or future plans/activities with regards to:  - gender diversity in the recruitment process (such as outreach to potential diverse candidates and equitable, non-biased interview practices)  - ensuring equal pay between men and women for the same roles by providing pay gap analysis or pay stubs  - opportunities for females to be empowered and promoted internally (e.g. mentorship, leadership/ management skills training for both junior and senior employees),  - prevention of sexual exploitation and abuse or any form of discrimination at work (e.g. zero-tolerance policy in place),  - paid parental leave policies for men and women,  - provide professional safety training and access to equal protection facilities for all staffs without discrimination  - Undertaken and awarded an independent gender audit certificate or equivalent (e.g. Edge Certificate, WEPs GAP analysis). | ☐ Yes ☐ No |  |

**E. Inspections and tests**

The following inspections and tests shall be performed:

(i) The Supplier shall perform all needed tests before the shipment to conform that the goods meet the Purchaser requirements. Documented confirmation of such tests has to be sent to the Purchaser before the shipment;

(ii) The Purchaser will check the availability of Compliance Certificates issued for equipment supplied;

(ііі) The Supplier shall demonstrate that the software has been properly installed on all corresponding equipment;

UNOPS or its representative may inspect and/or test any or all items of the goods to confirm their conformity to the contract, prior to dispatch from the supplier’s premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the goods on receipt at destination.

If the goods fail to meet the laid down specifications, the supplier shall take immediate steps to remedy the deficiency or replace the defective goods to the satisfaction of the purchaser.