**Section II: Schedule of Requirements**

**eSourcing reference:** RFQ/2021/25062

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| **No.** | **TECHNICAL SPECIFICATIONS** | **Psc.** |
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|  | **LOT 1**  **AUIDO AND VIDEO EQUIPMENT** |  |
| 1 | **CAMCORDER 1**   * Lens mount: fixed * Optical zoom: 12x or better * Focus control: Manual and Auto * Focal length: equivalent to f = 35.5 - 426.0 mm on lens or better * Iris/Aperture range: at least F2.8 - F4.5 * Viewfinder: 0.24 type, 1.56 million dots or better * Recording format: AVCD 28Mbps (1920 x 1080P), 24/17Mbps (1920 x 1080i) or better * Video outputs: BNC, HDMI or more * Storage media: SD card, at least 2 slots * Audio inputs: XLR, 3-pin (x2), line/mic/mic +48 V selectable or more * Headphone output: stereo mini, 3.5mm TRS or more * Other connections: DC in, USB or more * Warranty * On site support, integration and training | 2 |
| 2 | **BATTERY 1**   * Spare battery for specified camcorder 1. * Warranty | 1 |
| 3 | **DRONE 1**   * Video resolution and frame rates: 4K Ultra HD: 3840×2160 24/25/30/48/50/60 fps or better * Max Flight Time (without wind): 34 minutes or more * Max Horizontal Flight Speed: 19 m/s or better * Operating Temperature Range: -10° to 40°C or better * Satellite Systems: GPS, GLONAS at least * Max Photo Resolution: 48 MP 8000×6000 pixel or better * Video Formats: MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC) at least * Recording media: microSD card, 256GB at least * Stabilization: 3-axis (tilt, roll, pan) at least * Obstacle Avoidance System: APAS 3.0 or better * Max Transmission Bitrate: 12 Mbps at least * Internal Storage: 8 GB * Included items: 3 x battery; 6 x Pairs of Low-Noise Propellers, ND filter Set, Battery charging hub * Warranty | 1 |
| 4 | **CAMCORDER 2**   * Lens mount: fixed * Optical zoom: 20x or better * Focus control: Manual and Auto * Focal length: equivalent to f = 29.3 - 601mm on 35 mm or better * Iris/Aperture range: at least F 1.8 - 2.8 or better * Viewfinder: 0.24 type, 1.56 million dots or better * Recording format: * XF-AVC: 3840x2160 (160 Mbps); 1920x1080 (45 Mbps) or better * MP4: 3840x2160 (150 Mbps) ; 1920x1080 (35 / 17 Mbps) or better * Recording mode: Simultaneous, relay * Prerecording function: 3 sec at least * Video outputs: HDMI or more * Storage media: SD card, at least 2 slots * Audio inputs: XLR, 3-pin (x2), line/mic/mic +48 V selectable * Headphone output: stereo mini, 3.5mm TRS * Other connections: DC in, USB or more * Warranty * On site support, integration and training | 2 |
| 5 | **CAMERA BAG AND CAMERA STAND**   * Camera bag and camera stand for specified camcorder 5. * Warranty | 2 |
| 6 | **DUAL MICROPHONE WIRELESS SYSTEM**   * Wireless transmission: 2.4GHz digital * Included transmitters: 2 x clip-on or more * RF Channel scanning: Auto-Scan   **Receiver specifications:**   * Form: Belt pack/portable * Mounting options: Belt clip, shoe mount or more * Number of audio channels: 2 or more * Audio I/O: 1 x 1/8" / 3.5 mm TRS Female Unbalanced Line Output, 1 x 1/8" / 3.5 mm TRS Female Unbalanced Headphone Output * Battery Type: 1 x Built-In Rechargeable * Connectivity: 1 x USB Type-C (Charging) * **Transmitter 1 specifications:** * Form: Clip-on with microphone * Audio I/O: 1 x 1/8" / 3.5 mm TRS Female Input * Battery Type: Built-In Rechargeable * Approx. Battery Life: 4.5 Hours or more * **Transmitter 2 specifications:** * Form: Clip-on with microphone * Audio I/O: 1 x 1/8" / 3.5 mm TRS Female Input * Battery Type: Built-In Rechargeable * Approx. Battery Life: 4.5 Hours or more * Charging case with contact charging for transmitters and receiver included; * Charging case input: USB or better * 2 x lavalier microphone with 3.5 mm TRS connection included or more * Warranty * Training | 2 |
| 7 | **DIGITAL CAMERA (BODY) 1**   * Max resolution: 5184 x 3888 or better * Sensor Resolution: Actual: 21 Megapixel or better * Aspect Ratio: 1:1, 3:2, 4:3, 16:9 * Image File Format: JPEG, Raw * ISO Sensitivity: Auto, 100 to 25600 * Metering Range: 0 to 18 EV or better * Recording modes: UHD 4K (3840 x 2160) at 23.976p/25p/29.97p or better * Audio Recording: Built-In Microphone, External Microphone Input * Focus Type: Auto and Manual Focus * Display Type: Articulating Touchscreen LCD * Maximum Flash Sync Speed: 1/250 Second or better * Wireless connection: Wi-Fi, Bluetooth * Operating Humidity: 10 to 80% or better * Warranty * On site support, integration and training | 1 |
| 8 | **CAMERA LENS 1**   * Minimum Aperture: f/22 * Focus Type: Autofocus * Image Stabilization: Yes * Focal length: 35mm Equivalent Focal Length: 27.2 to 88mm * Lens Mount must be the same as the specified camera body mount type 11. * Warranty | 1 |
| 9 | **DRONE 2**   * Video resolution and frame rates: 4K: 3840×2160 24/25/30p or better * Max video bitrate: 100Mbps * Effective Pixels: 20 million * Max Flight Time (without wind): 31 minutes or more * Max Flight Distance (without wind): 18 km or more * Operating Temperature Range: -10° to 40°C or better * Satellite Systems: GPS, GLONAS at least * Still image size: 5472×3648 or better * Video Formats: MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265) at least * Recording media: microSD card, 128GB at least * Sensing System: Omnidirectional Obstacle Sensing * Operating Frequency: 2.4 GHz,5.8 GHz * Internal Storage: 8 GB * Warranty | 1 |
| 10 | **VIDEO CARD 1**   * Connection: PCIe x4 (PCIe 2.0) * Video Input Connectors: 4 x BNC (12G-SDI) Female * Input Video Format: SDI (8/10/12-Bit 4:4:4/4:2:2 RGB, YUV); 1080p: 23.98/24/25/29.97/30/50/59.94/60 fps; 1080PsF: 23.98/24/25/29.97/30 fps; 1080i: 50/59.94/60 fps or better * Input Audio Format: Analog: 48 kHz / 24-Bit * Embedded Audio Input: SDI: 16-Channel * Operating Temperature: 5 to 40°C * Warranty | 2 |
| 11 | **VIDEO CARD 2**   * Host Connection: PCIe x4 * Video Output Connectors: 1 x BNC (6G-SDI) Female; 1 x HDMI (HDMI 2.0a) Female * Output Video Format: SDI (8/10-Bit 4:2:2 YUV) * DCI 4K: 23.98/24/25 fps; UHD 4K: 23.98/24/25/29.97/30 fps; DCI 2K: 23.98/24/25 fps; DCI 2KPsF: 23.98/24/25 fps or better * Embedded Audio Output: SDI: 16-Channel * HDMI: 8-Channel * Operating Temperature: 0 to 40°C * Warranty | 2 |
| 12 | **4G LTE BONDING VIDEO ENCODER AND RECORDER**   * Input: HDMI * Transmission mode: 4G-LTE, WIFI (2.4/5G dual band) or more * 4G bonding capacity: 4 channels of 4G bonding (2 CH internal+ 2 CH external) or more * Sim card slots: 2 or more * Video resolution: 1080p23.98/24/25/29.97/30; 1080p50/59.94/60; 1080i50/59.94/60 or better * Video encoding: H.264/AVC, Motion-JPEG or more * Audio encoding: AAC/G.711 or more * Encoding latency:<67ms or less * Media protocols: RTMP/RTSP/SRT/RTP/HLS/TS over UDP, custom for SIP * Recording: microSD/TF card slot * Management: Android APP/Web * Operating temperature: -20~45℃ * Warranty * On site support, integration and training | 1 |
| 13 | **WIRELESS MICROPHONE COMBO SYSTEM (Bodypack transmitter, Plug-on transmitter, Lavalier microphone, Pocket receiver)**   * Wireless Transmission: Analog UHF * System type: Adaptive diversity * Number of RF Channels:1680 or more   **Receiver specifications:**   * Form: Camera-Mount * Mounting Options: Shoe-Mount or more * Antenna: 1 x Flexible Whip, Fixed or more * Number of Audio Channels: 1 or more * Audio Output Level: +12 dBu or more * Audio I/O: 1 x 1/8" / 3.5 mm TRS Female Output * Squelch: 5 to 25 dBμV or better * Battery Type: 2 x AA * Approx. Battery Life: 8 Hours or more * Display & Indicators: Backlit LCD (Battery Status, Output Level, RF Level) or better   **Transmitter 1 specifications:**   * Form: Bodypack * RF Output Power: 30 mW * Audio I/O: 1 x 1/8" / 3.5 mm TRS Female Input * Muting: Mute Switch * Audio Input Level: 3 V RMS (Max) * Frequency Response: 80 Hz to 18 kHz (Mic) or better; 25 Hz to 18 kHz (Line) or better * Sync Method: IR * Battery Type: 2 x AA (Included) * Display & Indicators: Backlit LCD (Audio Level, Battery Status, Signal Strength) * Approx. Battery Life: 8 Hours or more   **Transmitter 2 specifications:**   * Form: Plug-On * RF Output Power: 30 mW * Audio I/O: 1 x XLR 3-Pin Female Input * Muting: Mute Switch * Audio Input Level: 3 V RMS (Max) * Frequency Response: 80 Hz to 18 kHz or better * Sync Method: IR * Battery Type: 2 x AA * Display & Indicators: Backlit LCD (Audio Level, Battery Status, Signal Strength) * Approx. Battery Life: 8 Hours or more   **Microphone specifications:**   * Form: Lavalier * Sound Field: Mono * Capsule: Electret Condenser * Polar Pattern: Omnidirectional * Frequency Range: 50 Hz to 18 kHz * Equivalent Noise Level: 36 dB * Maximum SPL: 130 dB SPL Peak * Sensitivity: 20 mV/Pa * Output Connectors: 1 x 1/8" / 3.5 mm TRS Male * Cable Length: 5.25' / 1.6 m or longer * Warranty * Training | 1 |
| 14 | **DIGITAL CAMERA (BODY) 2**   * Pixels Effective: 26 Megapixel or more * Maximum Resolution: 6240 x 4160 or more * Aspect Ratio: 1:1, 3:2, 4:3, 16:9 or more * Image File Format: JPEG, Raw * Exposure Modes: Aperture Priority, Auto, Manual, Shutter Priority * Recording Modes: MP4/H.264 Full HD (1920 x 1080) at 23.976p/25p/29.97p/50p/59.94p or better * Audio File Format: AAC or more * Focus Type: Auto and Manual Focus * Viewfinder Type: Optical * Lens mount type: EF * Display Type: Articulating Touchscreen LCD * Display resolution: 1,040,000 Dot or better * Memory Card Slot: SD * Wireless: Wi-Fi * GPS: yes * Connectivity: Microphone, HDMI, USB or more * Operating Temperature: 0 to 40°C or better * Warranty * On site support, integration and training | 1 |
| 15 | **CAMERA LENS 2**   * Focal Length:16 to 35mm * Minimum Aperture: f/22 * Format Compatibility: Full-Frame * Focus Type: Autofocus * Minimum Focus Distance: 28 cm * Lens Mount must be the same as the specified camera body mount type 18. * Warranty | 1 |
| 16 | **CAMERA LENS 3**   * Focal Length: 24 to 105mm * Minimum Aperture: f/22 * Format Compatibility: Full-Frame * Focus Type: Autofocus * Minimum Focus Distance :45 cm * Lens Mount must be the same as the specified camera body mount type 18. * Warranty | 1 |
| 17 | **CAMERA GIMBAL**     * Number of Axes 3-Axis (Pitch, Roll, Yaw) * Rotation Range: Yaw: 360°, Pitch: -112 to 214° or better, Roll: -95 to 240° or better * Load Capacity: 4.5 kg or more * Transmission Power: <8 dBm * Ports: 2 x RSA, 3 x USB Type-C or more * Wireless Frequency: 2.4 GHz or better * Wireless Protocol : Bluetooth 5.0 or better * Operating Temperature: -20 to 45°C * Warranty * Training | 2 |
| 18 | **CAMERA LENS 4**   * Focal Length: 24 to 70mm * Minimum Aperture: f/22 * Lens Mount: EF * Format Compatibility: Full-Frame * Minimum Focus Distance: 38 cm * Focus Type: Autofocus * Angle of View: 84° to 34° * Warranty | 1 |
| 19 | **CAMERA LENS 5**   * Focal Length: 35mm * Minimum Aperture: f/22 * Lens Mount: EF * Format Compatibility: Full-Frame * Angle of View: 63° * Minimum Focus Distance: 24 cm * Focus Type: Autofocus * Image Stabilization: Yes * Maximum Aperture: f/2 * Warranty | 1 |
| 20 | **BACKPACK FOR LAPTOP AND DSLR**   * 2 or more DSLR to fit in backpack * 1 x Laptop up to 15,6” * Material: canvas | 2 |
| 21 | **FULL RADIO STATION PACK PLAYOUT SOFTWARE LICENCE**   * Music Scheduling function * Function to Schedule & Manage Commercials function to Create/Import Playlists * Function to Auto-Rebroadcasting (Line In or Stream) at least 3 sources * Full RDS Automation * Integration with SMS Services * Internet song title announcement function * Control over local network * Ability to print report and statistics * Songs database with advanced editing function | 2 |

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| **No.** | **TECHNICAL SPECIFICATIONS** | **Psc.** |
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|  | **LOT 1**  **IT EQUIPMENT** |  |
| 1 | **BLU RAY EXTERNAL WRITTER**   * Connection: USB 3.0 or better * Supported standards: BD-R, BD-R Dual Layer at least * Writing speed: 4x or better * Operating temperature: 10º C - 35º C or better * Warranty | 1 |
| 2 | **LAPTOP 1**   * Display size: 15.6“ * Processor: i3 or better * RAM: 4GB or more * HDD: 250 GB or more * Integrated graphic adapter allowed * Wireless adapter: 802.11a/b/g/n/ac * LAN: Integrated gigabit network adapter * 1 x multi-format digital media reader * Webcam * OS: Windows 10 PRO * Laptop charger included * Connection: USB 3.0, HDMI * Serbian keyboard * Warranty | 3 |
| 3 | **LAPTOP 2**     * Display size: 15.6“ * Screen Resolution: 1920 x 1080 * Processor: i7 or better * RAM: 8 GB or more * Graphic adapter: 4GB DDR5 or more * SDD: 512 GB * Wireless adapter: 802.11a/b/g/n/ac * LAN: Integrated gigabit network adapter * 1 x multi-format digital media reader * Webcam * OS: Windows 10 PRO * Laptop charger included * Connection: USB 3.0, HDMI * Serbian keyboard * Warranty | 1 |
| 4 | **EXTERNAL HDD**   * Size: 2 TB * Connection: USB 3.0 or better * Warranty | 4 |
| 5 | **SMART PHONE**   * Network technology: GSM / CDMA / HSPA / EVDO / LTE / 5G * Display Type: Super Retina XDR OLED, HDR10, Dolby Vision, 625 nits (typ), 1200 nits (peak) * Protection Scratch-resistant ceramic glass, oleophobic coating * CPU: Hexa-core (2x3.1 GHz Firestorm + 4x1.8 GHz Icestorm) * Memory internal: Internal 128GB 4GB RAM * Main Camera: Dual 12 MP, f/1.6, 26mm (wide), 1.4µm, dual pixel PDAF, OIS   12 MP, f/2.4, 120˚, 13mm (ultrawide), 1/3.6"   * Video: 4K@24/30/60fps, 1080p@30/60/120fps, gyro-EIS * Charging: Fast charging 20W * Warranty | 1 |
| 6 | **LAPTOP 3**   * Display size: 15.6“ * Screen Resolution: 1920 x 1080 * Processor: i7 or better * RAM: 16 GB or more * Graphic adapter: 4GB DDR6 or more * SDD: 1 TB or more * Wireless adapter: 802.11a/b/g/n/ac * LAN: Integrated gigabit network adapter * 1 x multi-format digital media reader * Webcam * OS: Windows 10 PRO * Laptop charger included * Connection: USB 3.0, HDMI * Serbian keyboard * Warranty | 1 |
| 7 | **LAPTOP 4**   * Display size: 15.6“ * Processor: i3 or better * RAM: 8GB or more * SSD: 256 GB or more * Integrated graphic adapter allowed * Wireless adapter: 802.11a/b/g/n/ac * LAN: Integrated gigabit network adapter * 1 x multi-format digital media reader * Webcam * OS: Windows 10 PRO * Laptop charger included * Connection: USB 3.0, HDMI * Serbian keyboard * Warranty | 1 |

**Delivery requirements –– Comparative Data Table**

| **UNOPS Requirements** | |
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| **Delivery time** | Bidder shall deliver the goods in **maximum 60 calendar days** after Contract signature |
| **Delivery place and Incoterms rules** | Net of any direct taxes, customs duties, indirect taxes and VAT.  DAP (Delivered at Place, as per Incoterms 2020):  Transportation and offload of the equipment should be included in the price. |
| **Consignee details** | Exact addresses will available upon contract signature, but the price should include all costs of delivery, installation and integration where needed in various locations in Serbia such as: Novi Pazar, Cacak, Svilajnac, Pozarevac, Nis |
| **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 RFQ. |

Bidders shall be allowed to quote prices for one or more lots identified in this tender. However, bidders must offer 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Evaluation will be done per lot. (Tenders with number of lots below 150 Lots).

1. All items must be in the original production packaging with product declaration to ensure safe transport and utilization.
2. Transportation and offload of the equipment on the contracted location must be included in the price.
3. Suppliers should engage and should cover the costs of custom clearance agencies, if needed. Customs clearance is the responsibility of the Contractor. However, UNOPS will provide, upon request, all necessary documentation to demonstrate that the goods subject of this contract are exempted from custom duties and taxes including VAT.
4. Manufacturer's technical literature submitted with the offer must comply with the written specifications of the Bidder. In the event that there are differences between the submitted manufacturers’ literature and written Bidder specification, reasons for that must be explained in the Bidder specifications. Manufacturer's technical literature (brochures, booklets, instructions, etc.) should be submitted. The manufacturers’ technical literature should be marked in an appropriate manner (i.e. model number).
5. Bidder warrants that offered items are new and unused. Bidder shall further warrant that none of the supplies have any defect arising from design, materials or workmanship.
6. Items must be in compliance with the Law on health safety of products for general use in the Republic of Serbia.