**Section II: Schedule of Requirements**

1. **Summary of Requirements**

Victim Search Equipment

1. **Technical specifications for Goods and Comparative Data Table**

**Lot 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNOPS minimum technical requirements** | | | **Is Bid compliant?**  Bidder to complete | **Details of goods offered.**  Bidder to complete. **Please provide detailed information**. |
|  | | |  |  |
| 1 | **Structural Collapse USAR Life Detector.**  **Performance**: Ability to detect more than 5 (five) trapped life victims simultaneously | **Control Box:** Weight with battery no more than 2,0 kg | ☐ Yes ☐ No | Insert details |
| **Control Box:** Screen size at least 7’’; | ☐ Yes ☐ No | Insert details |
| **Control Box:** transparent screen protection | ☐ Yes ☐ No | Insert details |
| **Control Box**: Water and dust resistance at least IP54 or better | ☐ Yes ☐ No | Insert details |
| **Control Box**: Connectivity: Wi-Fi (dedicated antenna) and wired | ☐ Yes ☐ No | Insert details |
| **Control Box:** At Least one Memory Card Slot | ☐ Yes ☐ No | Insert details |
| **Control Box:** Headphones ports | ☐ Yes ☐ No | Insert details |
| **UWB sensor:** Technology: Ultra-Wide Band (UWB) | ☐ Yes ☐ No | Insert details |
| **UWB sensor:** Box connection type Wireless (Wi- Fi) and Wired | ☐ Yes ☐ No | Insert details |
| **UWB sensor:**  Weight with battery: no more than 7,0 kg | ☐ Yes ☐ No | Insert details |
| **UWB sensor:** Frequency 2.4 GHz | ☐ Yes ☐ No | Insert details |
| **UWB sensor:** Water and dust resistance of sensors IP67 | ☐ Yes ☐ No | Insert details |
| **UWB sensor:** Power supply Battery at least 4.9A / 55W or better | ☐ Yes ☐ No | Insert details |
| **Nose Reducing Headphones**: AAA operated or rechargeable headphones with caring case. | ☐ Yes ☐ No | Insert details |
| Control box 1  Antenna for control box 1  Battery for control box 1  Charger for control box 1  Spare battery pack (without batteries) for control box 1  Sunshade 1  Shoulder strap 1  Hand strap 1  UWB sensors 1  Photo/video SD memory card 1  5-m USB cable for connecting control box to sensor 1  Battery for UWB sensor 2  Charger for UWB sensor 1  International connection adaptor kits 1  Transport backpack 1  Waterproof and shockproof transport case 1  User manual | ☐ Yes ☐ No | Insert details |
| 2 | **USAR Search Camera (Colour/Infrared)**  Performance: Must provide up to 3 colour modes to help viewing and understand what is going on in the rubble pile | **Control Box:** Weight with battery no more than 2,0 kg | ☐ Yes ☐ No | Insert details |
| **Control Box:** Screen size at least 7’’; | ☐ Yes ☐ No | Insert details |
| **Control Box:** transparent screen protection | ☐ Yes ☐ No | Insert details |
| **Control Box:** Water and dust resistance at least IP54 or better | ☐ Yes ☐ No | Insert details |
| **Control Box:** Connectivity: Wi-Fi (dedicated antenna) and wired | ☐ Yes ☐ No | Insert details |
| **Control Box:** At Least one Memory Card Slot | ☐ Yes ☐ No | Insert details |
| **Control Box:** Number of simultaneously connectable pairs of headphones: 2 | ☐ Yes ☐ No | Insert details |
| **Control Box:** Phosphorescent Keyboard | ☐ Yes ☐ No | Insert details |
| **Control Box:** Operating temperatures From -10° to +60°C: | ☐ Yes ☐ No | Insert details |
| **Control Box:** Control unit/pole mounting system | ☐ Yes ☐ No | Insert details |
| **Pole:** Telescopic POLE from 3 to 4 meters long | ☐ Yes ☐ No | Insert details |
| **Pole:** WEIGHT no more than 2.5 kg | ☐ Yes ☐ No | Insert details |
| **Pole:** Detachable Camera Head | ☐ Yes ☐ No | Insert details |
| **Pole:** Material**:** Carbon fibre or metal with similar weight/strength ratio | ☐ Yes ☐ No | Insert details |
| **Pole:** Removable pistol grip | ☐ Yes ☐ No | Insert details |
| **Attachable Camera Head:** Multicolour day light imaging | ☐ Yes ☐ No | Insert details |
| **Attachable Camera Head**: thermal imaging unit | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Diameter no more than 50 mm | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Camera articulation no less than 170° (85° to right and 85° to left); | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Field of view no less than 260° in total; | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Type of articulation: motorized electric | ☐ Yes ☐ No | Insert details |
| **Camera Head**: Lighting : LED with regulated illumination levels | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Communication: Microphone/loudspeaker integrated for half-duplex communication with victim | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Camera Protection: Scratch-proof lens | ☐ Yes ☐ No | Insert details |
| **Camera Head:** Water Resistance Up to 2m; | ☐ Yes ☐ No | Insert details |
| **Noise Reducing Headphones: 2 units** | ☐ Yes ☐ No | Insert details |
| **Noise Reducing Headphones: Sound – Stereo** | ☐ Yes ☐ No | Insert details |
| **Noise Reducing Headphones:** Built-in microphone: yes | ☐ Yes ☐ No | Insert details |
| **Noise Reducing Headphones:** NRR (Noise Reduction Rating) hearing protection at lest 23 dB; | ☐ Yes ☐ No | Insert details |
| **Control box battery**: Charger included | ☐ Yes ☐ No | Insert details |
| **Control box battery: At lest one spare battery** | ☐ Yes ☐ No | Insert details |
| **Control box battery: Input voltage 100 - 240 VAC** | ☐ Yes ☐ No | Insert details |
| Control box 1  Pair of noise-reducing headphones 1  Sunshade 1  Articulated day light camera on 4 m telescopic pole 1  Articulated Thermal Imaging Camera 1  Removable articulated arm (pole/control box mounting) 1  Shoulder strap 1  Hand strap 1  Water-resisting plugs (camera water-resistance accessory) 3  Battery 1  Charger 1  International connection adaptor kits 1  Spare battery pack (without batteries) 1  Photo/video SD memory card 1  Waterproof transport case 1  User manual 1 | ☐ Yes ☐ No | Insert details |
| 3 | **USAR Life/Victim Seismic and Audio Detector - SET**  Performance: Individual control of each sensor from control box Each sensor can be listened to alone or simultaneously with the second sens | **Contents of set:**  Control box: 1  Antenna :1  Headphones: 2  Sunshade: 1  Shoulder strap: 1  Hand strap: 1  Wired seismic sensors: 3  Wireless seismic sensors: 3  Communication probe: 1  Spikes for sensors: 6  Magnets for sensors: 6  Battery: 1  Charger: 1  International connection adaptor kits: 1  Spare battery pack (without batteries): at least one  Transport case: 1  Responder’s Backpack:1  User manual: 1. | ☐ Yes ☐ No | Insert details |
| **Control Box**: Control box weight with battery 1 - 1.5 kg | ☐ Yes ☐ No | Insert details |
| **Control Box:** Anti-shock bumper belt: Yes | ☐ Yes ☐ No | Insert details |
| **Control Box:** Shock resistance drop test performed min 1.9 m | ☐ Yes ☐ No | Insert details |
| **Control Box:** Control box water and dust minimum resistance at least IP54 | ☐ Yes ☐ No | Insert details |
| **Control Box:** Run time up min 4.5 hours | ☐ Yes ☐ No | Insert details |
| **Control Box:** phosphorescent Keyboard: Yes | ☐ Yes ☐ No | Insert details |
| **Control Box:** Connections: minimum 3 metal ports for connecting headphones, antenna, communication probe or wired sensors | ☐ Yes ☐ No | Insert details |
| **Control Box:** Antenna for interconnection of seismic sensors Removable and orientable for a range of up to 100 m in unobstructed space | ☐ Yes ☐ No | Insert details |
| **Control Box:** Connector water and dust resistance minimum IP68 | ☐ Yes ☐ No | Insert details |
| **Control Box:** Operating temperatures From -at least 10° to +60°C. | ☐ Yes ☐ No | Insert details |
| **Seismic Sensors:** **Wireless connection to control unit** | ☐ Yes ☐ No | Insert details |
| **Seismic Sensors:** Sensor/control box communication frequency 2.4 GHz | ☐ Yes ☐ No | Insert details |
| **Seismic Sensors:** Weight (with standard cell batteries) maximum 840 g; | ☐ Yes ☐ No | Insert details |
| **Seismic Sensors:** Run time at least 7.5 hrs | ☐ Yes ☐ No | Insert details |
| **Seismic Sensors:** Type of batteries AAA | ☐ Yes ☐ No | Insert details |
| Wired Sensors: weight maximum 1400 g | ☐ Yes ☐ No | Insert details |
| Wired Sensors: cable lenghth 8 meters. | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Sensors Protection rate minimum IP 67 | ☐ Yes ☐ No | Insert details |
| **Wired Sensors** Noise-reducing filters adjustable from control box | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Low pass filter able to Remove high sounds | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Adjustable from 600 to 3000 Hz; | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** High pass filter able to remove deep sounds | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Adjustable from 20 to 300 Hz | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Mono or Stereo listening mode for listening to the selected sensors in both ears, right ear only or left ear only; | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** On-screen display trackers; trackers above each bar graph for clear reading of peaks | ☐ Yes ☐ No | Insert details |
| **Wired Sensors:** Ability to detect seismic peak | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Material stainless steel | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Diameter 36 -38 mm | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Ingress protection minimum IP67 | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Microphone/loudspeaker; Response frequency 300 Hz to 3500 Hz | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Cable length minimum 8 m | ☐ Yes ☐ No | Insert details |
| **Communication Probe:** Cable type anti-abrasion cable. | ☐ Yes ☐ No | Insert details |
| **Noise reducing headphones:** Mono or Stereo sound | ☐ Yes ☐ No | Insert details |
| **Noise reducing headphones:** Built-in microphone: Yes | ☐ Yes ☐ No | Insert details |
| **Noise reducing headphones** NRR (Noise Reduction Rating) hearing protection 23 dB; | ☐ Yes ☐ No | Insert details |
| **Noise reducing headphones:** Simultaneously connectable pairs of headphones 2 pairs | ☐ Yes ☐ No | Insert details |
| **Charger:** Yes | ☐ Yes ☐ No | Insert details |
| **Charger:** Charger input voltage 100 - 240 VAC | ☐ Yes ☐ No | Insert details |
| **Spare Battery Pack:** Type of batteries AAA-LR03 lithium batteries; Run time at least. 1 h 30 m; | ☐ Yes ☐ No | Insert details |
| **Transport Case**: Material Rigid impact-resistant shell; Water and dust resistance IP67. | ☐ Yes ☐ No | Insert details |
| 4 | Unstable Structure Stability Controller (Detector) during USAR Operations  (Set)  Function: Should detect the weakest from 2 to 100 mm movements of unstable structures. | **Laser head:** Harmless laser (Class 2) | ☐ Yes ☐ No | Insert details |
| **Laser head:** Associated telescopic sight | ☐ Yes ☐ No | Insert details |
| **Laser head:** Associated laser pointer | ☐ Yes ☐ No | Insert details |
| **Laser head:** Measuring range of up to 50m; | ☐ Yes ☐ No | Insert details |
| **Laser head:** Alarm | ☐ Yes ☐ No | Insert details |
| **Laser head:** 3 powerful beacons flash/blink | ☐ Yes ☐ No | Insert details |
| **Laser head:** siren - Yes | ☐ Yes ☐ No | Insert details |
| **Laser head:** Buttons compatible with user’s gloved hand | ☐ Yes ☐ No | Insert details |
| **Laser head:** OLED Screen | ☐ Yes ☐ No | Insert details |
| **Laser head:** Protection IP55 and above | ☐ Yes ☐ No | Insert details |
| **Tripod:** Extended height: 170 -180cm | ☐ Yes ☐ No | Insert details |
| **Tripod:** Attachment piece :for directing and locking | ☐ Yes ☐ No | Insert details |
| **Tripod:** Attachment piece :for directing and locking | ☐ Yes ☐ No | Insert details |
| **Tripod:** Adjustable strap with hooks | ☐ Yes ☐ No | Insert details |
| **Tripod:** Optional sucker pad for flat surface fixing | ☐ Yes ☐ No | Insert details |
| **Power:** AAA cells batteries packs | ☐ Yes ☐ No | Insert details |
| **Power:** 110/220V Mains power supply | ☐ Yes ☐ No | Insert details |
| **Power:** 12/24V cable with cigar lighter adaptor | ☐ Yes ☐ No | Insert details |
| **Power:** Rechargeable battery with charger and power cable | ☐ Yes ☐ No | Insert details |
| **Remote control:** Shockproof and water resistant | ☐ Yes ☐ No | Insert details |
| **Remote control:** Integrated speaker | ☐ Yes ☐ No | Insert details |
| **Remote control**: Power supply: AA cell batteries | ☐ Yes ☐ No | Insert details |
| **Remote control:** Run time: at least 53 hours (with siren activated). | ☐ Yes ☐ No | Insert details |
| **Transportation:** Padded transportation bag | ☐ Yes ☐ No | Insert details |

**Lot 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNOPS minimum technical requirements** | | | **Is Bid compliant?**  Bidder to complete | **Details of goods offered.**  Bidder to complete. **Please provide detailed information**. |
|  | | |  |  |
| 1 | **Battery Driven Hydraulic Combi Tool**  **Performance**: Provides cutting of round bar ip to 36 mm | **Combi Tool:** max. working pressure 700/70 -720 / 72 (bar/Mpa); | ☐ Yes ☐ No | Insert details |
| **Combi Tool:** min spreading force (EN 13204) 43 / 4.4 (kN/t); | ☐ Yes ☐ No | Insert details |
| **Combi Tool:**  weight, ready for use 19 - 21 kg | ☐ Yes ☐ No | Insert details |
| **Combi Tool**: protection rate IP57 and above | ☐ Yes ☐ No | Insert details |
| **Combi Tool**: NFPA 1936 | ☐ Yes ☐ No | Insert details |
| **Combi Tool:** cutting capacity: A7 B8 C8 D8 E8 F3; EN 13204 | ☐ Yes ☐ No | Insert details |
| **Combi Tool:** cutting capacity: 1J 2J 3K 4K 5K | ☐ Yes ☐ No | Insert details |
| **Combi Tool:** spreading distance 370 - 380 mm) | ☐ Yes ☐ No | Insert details |
| **Combi Tool:** max. cutting opening 310 - 320 mm. | ☐ Yes ☐ No | Insert details |
| **Battery:** capacity 7 - 9 Ah | ☐ Yes ☐ No | Insert details |
| **Battery:** protection rate IP67 and above | ☐ Yes ☐ No | Insert details |
| **Battery:** minimum battery life 500 cycles weight | ☐ Yes ☐ No | Insert details |
| **Battery:** ready for use 1.5 – 1,8 kg | ☐ Yes ☐ No |  |
| **Charger:** Included | ☐ Yes ☐ No | Insert details |
| **Charger:** mains voltage 100-240 VAC | ☐ Yes ☐ No | Insert details |
| **Charger:** power 290 - 350 W**;** | ☐ Yes ☐ No | Insert details |
| **Charger:** weight, ready for use 1.6 - 2 kg | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector:** protection rate IP66 and above | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector:** **max. current 4 - 5A** | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector:** mains voltage: 100-240 VAC | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector:** power: 740 - 750 W | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector:** cable - length 7 - 9m; | ☐ Yes ☐ No | Insert details |
| **Mains Power Connector: ready for use : 5 - 6 kg.** | ☐ Yes ☐ No | Insert details |
| 2 | **Spare Battery for Hydraulic Combi Tool** | Charging time : At least 1.5 h | ☐ Yes ☐ No | Insert details |
| capacity 7 - 9 Ah; | ☐ Yes ☐ No | Insert details |
| protection rate IP67 and above; | ☐ Yes ☐ No | Insert details |
| minimum battery life 500 cycles | ☐ Yes ☐ No | Insert details |
| weight, ready for use 1.5 – 1,8 kg. | ☐ Yes ☐ No | Insert details |

**Lot 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNOPS minimum technical requirements** | | | **Is Bid compliant?**  Bidder to complete | **Details of goods offered.**  Bidder to complete. **Please provide detailed information**. |
|  | | |  |  |
| 1 | **Portable Multi-Gas Detector**  **Performance**: Should provide simultaneous detection up to 6 gases | **Technology:** dual Infrared and electrochemical sensors; | ☐ Yes ☐ No | Insert details |
| **Technology:** Should detect explosive, combustible, and harmful concentrations of O2, Cl2, CO, CO2, H2, H2S, HCN, NH3, NO, NO2, PH3, SO2, O3, Amine, Odorant, COCl2 and organic vapours | ☐ Yes ☐ No | Insert details |
| **Technology:** could be used in Ex-Zone 0; | ☐ Yes ☐ No | Insert details |
| Weight no more than 350 g; | ☐ Yes ☐ No | Insert details |
| **Battery**: High-capacity power pack, operating time no less than 9 hours | ☐ Yes ☐ No | Insert details |
| **Battery:** Charger – included - | ☐ Yes ☐ No | Insert details |
| **Battery:** Spare battery must be included | ☐ Yes ☐ No | Insert details |
| **Battery:** Protection level at least IP67; | ☐ Yes ☐ No | Insert details |
| **Must be included:**  Device protection cover;  USB cabel;  Calibration software for PC. | ☐ Yes ☐ No | Insert details |

**Lot 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNOPS minimum technical requirements** | | | **Is Bid compliant?**  Bidder to complete | **Details of goods offered.**  Bidder to complete. **Please provide detailed information**. |
|  | | |  |  |
| 1 | **Personal Radiation Detector** **Performance**: Should detect Gamma and X-rays plus neutrons via prompt gamma radiation | **Technology:** Radiation detector and analyser: Gamma and X-rays plus neutrons via prompt gamma; | ☐ Yes ☐ No | Insert details |
| **Technology:** Number of detectors: 2; | ☐ Yes ☐ No | Insert details |
| **Technology:** Low dose rate / Search / ID detector- Material CsI(Tl); Sensitivity (662 keV); | ☐ Yes ☐ No | Insert details |
| **Technology:** High dose rate detector (patent pending): Material Scintillator; Sensitivity (662 keV); | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Battery type AAA alkaline or NiMH | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Battery Life ap to 170 h (alkaline); | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Weight including Batteries and Rubber Sleeve maximum 200g | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Water/Dust Rating IP 65 or more | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Drop tested 1.5 m on concrete (with rubber sleeve); | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Operating Temperature -20°C to 50°C; | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Wireless Communications Bluetooth 4.2 | ☐ Yes ☐ No | Insert details |
| **General Specifications**: Wired Communications USB to IR. | ☐ Yes ☐ No | Insert details |
| **Standards Compliance**:  Low dose rate range:  • ANSI N42.32 PRD standard fully compliant  • ANSI N42.48 SPRD standard fully compliant | ☐ Yes ☐ No | Insert details |
|  | **Standards Compliance**:  High dose rate range:  • ANSI N42.33 for high range dose rate detector  • IEC 60846-1 for high range dose rate detector | ☐ Yes ☐ No | Insert details |

1. **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 45 days after Contract signature. | ☐ Yes ☐ No | Insert details |
| **Delivery place and Incoterms rules** | DAP Tbilisi Georgia | ☐ Yes ☐ No | Insert details |
| **Consignee details** | UNOPS  3, Kavsadze street, 0179 Tbilisi, Georgia | ☐ Yes ☐ No | Insert details |
| **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 | Insert details |
| **Packing standards** | Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. | ☐ Yes ☐ No | Insert details |

1. **Sustainability Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **UNOPS Requirements** | | **Is bid compliant?** Bidder to complete | **Details**  Bidder to complete |
| **Sustainability Requirements - Best Value For Money** | Offered products must include minimum 2 years manufacturer's warranty | ☐ Yes ☐ No | Insert details |
| **Sustainability Requirements -** Packaging | The bidder will seek to minimize the amount of packaging required while ensuring the safe delivery of products to the project location. | ☐ Yes ☐ No | Insert details |