**Section II: Schedule of Requirements**

E-Sourcing reference: RFQ/2023/47766

**A.Summary of Requirements for Video endoscopic system - 1 PCS**

UNOPS requirements are comprised of the following:

**Video endoscopic system - 1 PCS.**

**B.Technical specification for goods**

| **N** | **UNOPS minimum technical requirements** | **Is quotation compliant?** Bidder to complete | **Details of goods offered.** Bidder to complete |
| --- | --- | --- | --- |
| **1** | **Video endoscopic system - 1 system.** | ☐ Yes ☐ No |  |
| **2** | **Video endoscopic system must consist of the following items:** |  |  |
| 2.1 | Endoscopic video processor and light source - 1 pc | ☐ Yes ☐ No |  |
| 2.2 | Medical monitor - 1pc | ☐ Yes ☐ No |  |
| 2.3 | Video Gastroscope - 1pc | ☐ Yes ☐ No |  |
| 2.4 | Video Colonoscope - 1 pc | ☐ Yes ☐ No |  |
| 2.5 | Endoscopic сart/ Medical trolley - 1 pc | ☐ Yes ☐ No |  |
| 2.6 | Irrigation Pump - 1 pc. | ☐ Yes ☐ No |  |
| 2.7 | Carbon dioxide insufflator - 1pc | ☐ Yes ☐ No |  |
| 2.8 | Endoscopic clipper - 1 pc | ☐ Yes ☐ No |  |
| 2.9 | Suction pump - 1 pc | ☐ Yes ☐ No |  |
| 2.1 | Washing machine for flexible endoscopes - 1 pc | ☐ Yes ☐ No |  |
| 2.11 | Storage cabinet for endoscopes - 1pc. | ☐ Yes ☐ No |  |
| **3** | **Endoscopic video processor and light source** |  |  |
| 3.1 | Photo-video recording function availability, integrated or by separate unit | ☐ Yes ☐ No |  |
| 3.2 | Processor and light source integrated in one housing | ☐ Yes ☐ No |  |
| 3.3 | Type of light source – LED | ☐ Yes ☐ No |  |
| 3.4 | HDTV standards support for image display (to the monitor) with an option HD-endoscopes (with high resolution) connection | ☐ Yes ☐ No |  |
| 3.5 | In-built optical imaging technology that produces high-contrast images of superficial mucosal structures and micro vessels by combining a special spectrum of light. | ☐ Yes ☐ No |  |
| 3.6 | Image enhancement processing technology that has two steps resulting in increased colour contrast which supports a detection of lesions and inflammation. | ☐ Yes ☐ No |  |
| 3.7 | Availability of function of contrast strengthening not less than 3 levels | ☐ Yes ☐ No |  |
| 3.8 | Availability of the image saving function | ☐ Yes ☐ No |  |
| 3.9 | Two lighting control modes - automatic and at peak (extreme) value | ☐ Yes ☐ No |  |
| 3.10 | Video output types DVI-D or HD-SDI, RGB, S-video | ☐ Yes ☐ No |  |
| 3.11 | USB-slot availability or memory card for storing images | ☐ Yes ☐ No |  |
| 3.12 | Availability of memory for entering information patients (patient name, sex and age, date of birth, date and time of the study, comments) | ☐ Yes ☐ No |  |
| **4** | **Medical monitor** |  |  |
| 4.1 | Monitor type: LCD/LED | ☐ Yes ☐ No |  |
| 4.2 | Diagonal not less than 26 inches | ☐ Yes ☐ No |  |
| 4.3 | The max matrix resolution is not less than 1920 \* 1080 (Full HD) | ☐ Yes ☐ No |  |
| 4.4 | Colour image not less 1000 million colours | ☐ Yes ☐ No |  |
| 4.5 | Viewing angle (technical characteristics of the panel) - up, down, left, right not less than 89 degrees | ☐ Yes ☐ No |  |
| 4.6 | Video inputs not less: 1× DVI, 1 × SDI or SD or HD, 1xVGA, 1xComponent | ☐ Yes ☐ No |  |
| 4.7 | Video outputs not less: 1× DVI, 1 × SDI or SD or HD | ☐ Yes ☐ No |  |
| 4.8 | VESA standard for mounting of Medical Monitor | ☐ Yes ☐ No |  |
| **5** | **Video Gastroscope** |  |  |
| 5.1 | Direction of inspection 0º (direct inspection) | ☐ Yes ☐ No |  |
| 5.2 | The angle of view is not less than 140º | ☐ Yes ☐ No |  |
| 5.3 | Depth of field (penetration) from 2-100 mm | ☐ Yes ☐ No |  |
| 5.4 | The diameter of the distal end is not more than 9.3 mm | ☐ Yes ☐ No |  |
| 5.5 | The diameter of the inlet tube is not more than 9.3 mm | ☐ Yes ☐ No |  |
| 5.6 | The diameter of the working channel is not less than 2.8 mm | ☐ Yes ☐ No |  |
| 5.7 | Bending angles of the working part are not less than 210º up, 90º down, 100º left / right | ☐ Yes ☐ No |  |
| 5.8 | The length of the working part is not less than 1030 mm | ☐ Yes ☐ No |  |
| 5.9 | Total length not less than 1350 mm | ☐ Yes ☐ No |  |
| 5.10 | Availability of working with electrosurgical instruments | ☐ Yes ☐ No |  |
| 5.11 | Availability of 4 programmable buttons on the endoscope handle for remote control | ☐ Yes ☐ No |  |
| 5.12 | Channel for air / water | ☐ Yes ☐ No |  |
| 5.13 | Additional channel for water | ☐ Yes ☐ No |  |
| 5.14 | Transmitted image standard: Full HD | ☐ Yes ☐ No |  |
| 5.15 | Video gastroscope must have in-built optical imaging technology that produces high-contrast images of superficial mucosal structures and micro vessels by combining a special spectrum of light. | ☐ Yes ☐ No |  |
| 5.16 | Video gastroscope must have image enhancement processing technology that has two steps resulting in increased colour contrast which supports a detection of lesions and inflammation. | ☐ Yes ☐ No |  |
| **6** | **Video Colonoscope** |  |  |
| 6.1 | Transmitted image standard: Full HD | ☐ Yes ☐ No |  |
| 6.2 | Video colonoscope must support optical imaging technology that produces high-contrast images of superficial mucosal structures and micro vessels by combining a special spectrum of light. | ☐ Yes ☐ No |  |
| 6.3 | Video colonoscope must support image enhancement processing technology that has two steps resulting in increased colour contrast which supports a detection of lesions and inflammation. | ☐ Yes ☐ No |  |
| 6.4 | Direction of inspection 0º (direct inspection) | ☐ Yes ☐ No |  |
| 6.5 | The angle of view is not less than 170º | ☐ Yes ☐ No |  |
| 6.6 | Depth of field (penetration) from 2-100 mm | ☐ Yes ☐ No |  |
| 6.7 | The diameter of the distal end is not more than 13.2 mm | ☐ Yes ☐ No |  |
| 6.8 | The diameter of the inlet tube is not more than 12.8 mm | ☐ Yes ☐ No |  |
| 6.9 | The diameter of the working channel is not less than 3.7 mm | ☐ Yes ☐ No |  |
| 6.10 | Bending angles of the working part are not less than 180º up / down, 160º left / right | ☐ Yes ☐ No |  |
| 6.11 | The length of the working part is not less than 1680 mm | ☐ Yes ☐ No |  |
| 6.12 | Total length not less than 1990mm | ☐ Yes ☐ No |  |
| 6.13 | Channel for air / water | ☐ Yes ☐ No |  |
| 6.14 | Additional channel for water | ☐ Yes ☐ No |  |
| 6.15 | Functional buttons on the endoscope with the possibility of programming – at least 4 buttons | ☐ Yes ☐ No |  |
| **7** | **Medical Trolley** |  |  |
| 7.1 | Medical Trolley with medical isolation transformer | ☐ Yes ☐ No |  |
| 7.2 | In built central on/off switch | ☐ Yes ☐ No |  |
| 7.3 | 4 antistatic wheels (at least 2 of them with breaks) | ☐ Yes ☐ No |  |
| 7.4 | Minimum 4 shelves for equipment | ☐ Yes ☐ No |  |
| 7.5 | Maximum loading of the shelves not less 30 kg | ☐ Yes ☐ No |  |
| 7.6 | Integrated holder for at least two endoscopes | ☐ Yes ☐ No |  |
| 7.7 | VESA standard for mounting of Medical Monitor | ☐ Yes ☐ No |  |
| **8** | **Irrigation pump** |  |  |
| 8.1 | Setting of the flow – at least 2 levels | ☐ Yes ☐ No |  |
| 8.2 | Flow rate – not less than 500-1400 ml/min | ☐ Yes ☐ No |  |
| 8.3 | Adjusting of volume control | ☐ Yes ☐ No |  |
| 8.4 | Pump cartridge | ☐ Yes ☐ No |  |
| 8.5 | Set of rinsing tubes | ☐ Yes ☐ No |  |
| 8.6 | Rinsing adapter for Video Gastroscope and Video Colonoscope which are indicated above | ☐ Yes ☐ No |  |
| 8.7 | Irrigation pump bottle for collecting fluids – not less than 2 l | ☐ Yes ☐ No |  |
| **9** | **Carbon dioxide insufflator** |  |  |
| 9.1 | Gas - carbon dioxide | ☐ Yes ☐ No |  |
| 9.2 | Must be intended for use in endoscopy, endoscopic treatment | ☐ Yes ☐ No |  |
| 9.3 | Gas supply pressure minimum 45 kPa | ☐ Yes ☐ No |  |
| 9.4 | Gas tube with length not less than 1000 mm | ☐ Yes ☐ No |  |
| **10** | **Endoscopic clipper** |  |  |
| 10.1 | A clipping device for clips with the rotation function, disposable, with clips recharge option within one clinical case, for the channel not less than 2.8 mm, length not less than 2300 mm. Integrated handle availability | ☐ Yes ☐ No |  |
| 10.2 | Clips endoscopic hemostatic 90 degrees - 1 pack  The bending angle of the branches is 90 °, the length of the branches is not less than 5 mm. Sterile clips, in individually packed cartridges. | ☐ Yes ☐ No |  |
| **11** | **Suction pump** |  |  |
| 11.1 | Nominal vacuum – not less than 80 kPa | ☐ Yes ☐ No |  |
| 11.2 | Suction flow – not less than 30 l/min , with regulation of flow speed | ☐ Yes ☐ No |  |
| 11.3 | Vacuum control knob | ☐ Yes ☐ No |  |
| 11.4 | Vacuum gauge | ☐ Yes ☐ No |  |
| 11.5 | Suction jar – not less than 1 l | ☐ Yes ☐ No |  |
| 11.6 | Tubing set | ☐ Yes ☐ No |  |
| **12** | **Washing machine for flexible endoscopes** |  |  |
| 12.1 | Cleaning and disinfection of flexible endoscopes with the possibility of connecting Pentax, Olympus, Fujinon or equivalent compatible with the offered device | ☐ Yes ☐ No |  |
| 12.2 | Adjustment of the cleaning time in the range of not less 0-90 min. | ☐ Yes ☐ No |  |
| 12.3 | Disinfection time adjustment in the range of not less than 0-90 min. | ☐ Yes ☐ No |  |
| 12.4 | The capacity of the bath for disinfection of endoscopes is at least 10 L | ☐ Yes ☐ No |  |
| 12.5 | The capacity of the tank for storing the disinfectant solution is at least 15 L | ☐ Yes ☐ No |  |
| 12.6 | Water consumption for 1 processing cycle is not more 40 L | ☐ Yes ☐ No |  |
| 12.7 | Continuous monitoring of the tightness of the endoscope during the entire time of processing | ☐ Yes ☐ No |  |
| 12.8 | Leak detection and notification at the end of the cycle | ☐ Yes ☐ No |  |
| 12.9 | The possibility of processing endoscopes with non-hermetic electrical components that cannot be completely immersed in the disinfectant solution and water | ☐ Yes ☐ No |  |
| **13** | **Storage cabinet for endoscopes** |  |  |
| 13.1 | Disinfection availability integrated in cabinet | ☐ Yes ☐ No |  |
| 13.2 | The power of the bactericidal lamp not less 30 W | ☐ Yes ☐ No |  |
| 13.3 | Numbers of brackets for placement of endoscopes not less 4 | ☐ Yes ☐ No |  |
| 13.4 | Numbers of hooks for hanging of instruments not less 5 | ☐ Yes ☐ No |  |
| 13.5 | Steel tray for draining the disinfectant | ☐ Yes ☐ No |  |
| 13.6 | Height not less 2000 mm | ☐ Yes ☐ No |  |
| 13.7 | Width not less 500 mm | ☐ Yes ☐ No |  |
| 13.8 | Depth not less 550 mm | ☐ Yes ☐ No |  |
| **14** | **General conditions for quality insurance and certification for Ukraine** |  |  |
| 14.1 | Bidder must confirm unloading of all goods at final place (s) of destination (must be done on the day of delivery of the equipment) and perform installation and commissioning works | ☐ Yes ☐ No |  |
| 14.2 | The equipment should have certificate of registration for use of goods within the territory of Ukraine according to the current Ukrainian legislation including the Certificate of state registration | ☐ Yes ☐ No |  |
| 14.3 | Bidder which does not manufacture or produce the Goods it offers to supply, shall submit the Manufacturer’s Authorization to demonstrate that it has been duly authorised by the manufacturer or producer of the Goods to supply these Goods in the country of destination | ☐ Yes ☐ No |  |
| 14.4 | Commissioning works on putting equipment into operation must be done within 3 calendar days after delivery of the equipment | ☐ Yes ☐ No |  |
| 14.5 | Manufacturer’s standards. All offered equipment has to be manufactured by ISO 9001:2015 and ISO 13485:2016 certified manufacturers. Copies of the original certifications, issued by authorised notified bodies, shall be included in the bid | ☐ Yes ☐ No |  |
| 14.6 | Medical equipment standards. All offered medical equipment, tools and consumables shall be in possession of European conformity marking (CE Mark), according to 93/42/EEC directive or 98/79/EC, or FDA approval or compliance to other internationally recognized medical devices regulatory systems. | ☐ Yes ☐ No |  |
| 14.7 | Bidders shall ensure conformity of the equipment with all applicable Ukrainian regulations | ☐ Yes ☐ No |  |
| 14.8 | The period of validity of the Warranty. The warranty shall remain valid for twelve (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 |  |
| 14.9 | Warranty service. Within the warranty period, the Supplier or its authorised service centre shall provide maintenance and/or repair services to the equipment operation site not later than 5 (five) workdays from the date of receipt of written or E-mail notification from an authorised 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 |  |
| 14.1 | 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: 1) User Manual and Operating Instructions (in Ukrainian or English); 2) Technical Certificate / maintenance guidelines (in Ukrainian or English). | ☐ Yes ☐ No |  |
| 14.11 | The Bidder is required to confirm the list and contents of documentation to be provided together with the Goods at the delivery | ☐ Yes ☐ No |  |
| 14.12 | The Bidder has to organise appropriate user training in Ukrainian or Russian language for effective and problem-free use of the equipment included in this tender at the location of delivery. A training proposal for the operation of the equipment must be submitted by the Bidder in the tender. This proposal shall include at least: 1) Schedule and duration; 2) Description of training materials. | ☐ Yes ☐ No |  |
| 14.13 | Bid includes total gross weight of the goods in kg and total volume in m3. | ☐ Yes ☐ No |  |
| 14.14 | Bid includes brand/model of the equipment and manufacturer's technical literature/catalogue, 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 **90 calendar days** after Contract signature. Bidder shall provide commissioning of the equipment and training within **3 and 14 calendar days** respectively after delivery of the equipment. | ☐ Yes ☐ No | Insert details |
| **Delivery place and Incoterms rules** | DAP Customs cleared Starokostiantyniv (Khmelnytskyi Region), Ukraine  Tax exemption documents will be provided to the successful Bidder. | ☐ Yes ☐ No |  |
| **Consignee details** | UNOPS, Starokostiantyniv, Khmelnytskyi region, 31100. | ☐ Yes ☐ No |  |
| **Warranty** | The 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** | The Bidder shall ensure the best international packing standards of goods supplied, including use of eco-friendly packing materials. | ☐ Yes ☐ No |  |

**D. Inspections and tests**

The following inspections and tests shall be performed:

(i) The Supplier shall perform all needed tests before the shipment to confirm 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;

(іv) The Purchaser (with the assistance of the Supplier) will check the functionality/operability and the compliance of main characteristics of all items of equipment with Technical Requirements. If the consumables should be used for equipment checking (reagents for rapid-response analysers, etc.) - they must be provided by the cost of the Supplier.

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.