**Addendum No.2**

**to the Bidding documents for procurement of medical equipment for the Republican Specialized Scientific and Practical Medical Center (RSSPMC) of urology and the Republican Specialized Scientific and Practical Medical Center (RSSPMC) of Nephrology and Kidney Transplantation and their regional branches**

**ICB No.: UP/ICB/20/01**

**Equipping Urological and Hemodialysis Medical Facilities in the Republic of Uzbekistan Project**

Reference: Loan Agreement between Kuwait Fund for Arab Economic Development and the Government of the Republic of Uzbekistan (No. 938)

Date: 11.07.2023

This Addendum is issued to amend the Bidding Documents for the above project and shall be considered an integral part of it. If the provisions of this Addendum differ from those in the original Bidding Documents, this Addendum shall prevail. BIDDERS SHALL CONSIDER THIS ADDENDUM WHEN PREPARING THEIR BIDS.

1. Except as noted below, the original Bidding Documents remain unchanged. The following amendments and/or changes are made to the Bidding Documents:

**Section III. Bidding Data**

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| **Ref. to item**  | **Original provisions of the Bidding Documents**  | **Amendments to the provisions of the Bidding Documents** |
| **ITB 19.1** | Deadline for submission of proposals:**Date: 14.07.2023****Time: 11:00 (Tashkent time)****Bid proposals submitted by e-mail or fax will not be accepted for consideration.** | Deadline for submission of proposals:**Date: 28.07.2023****Time: 11:00 (Tashkent time)****Bid proposals submitted by e-mail or fax will not be accepted for consideration.** |
| **ITB 22.1** | Time and date for bid opening:**Date: 14.07.2023****Time: 11:30 (Tashkent time)**Place of bid opening:**Office of Project Implementation Unit (PIU)** **"Equipping urological and hemodialysis** **medical facilities in the Republic of Uzbekistan" under the Ministry of Health of the Republic of Uzbekistan****Address: Center for Development of Professionl Qualification of Medical Workers (former TIPME)51, Parkent street, 3rd Floor, Room 5, Tashkent, 100007,the Republic of Uzbekistan** | Time and date for bid opening:**Date: 28.07.2023****Time: 11:30 (Tashkent time)**Place of bid opening:**Office of Project Implementation Unit (PIU)** **"Equipping urological and hemodialysis medical facilities in the Republic of Uzbekistan" under the Ministry of Health of the Republic of Uzbekistan****Address: Center for Development of Professionl Qualification of Medical Workers (former TIPME)51, Parkent street, 3rd Floor, Room 5, Tashkent, 100007,the Republic of Uzbekistan** |
| **Section VII. Technical Specifications**  |
| **Section****VII** | **LOT №1. 1.1. Vacuum Type Histological Tissue Processing Machine.** |
| 9.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 9.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII** | **LOT №1. 1.2. Automatic dyeing machine with heating and accessories.** |
| 8.1. | Warranty period from the date of commissioning:  | 8.1. | Warranty period from the date of commissioning: 24 months |
| 9.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 9.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section****VII** | **LOT 1. 1.3. Installation for immunohistochemical and immunocytochemical staining of preparations, complete with a module for unmasking and deparaffinization with a starter kit of reagents. (Type N)** |
| 1.1. | Parameter | 1.1. | Clause 1.1. to be deleted |
| 6.1. | The proposed model must be registered at the time of delivery to the State Unitary Enterprise "State Center for Expertise and Standardization of Medicines, Medical Devices and Medical Equipment" of the Ministry of Health of the Republic of Uzbekistan (if it is subject to registration under the HS code) | 6.1. | Clause 6.1. to be deleted |
| 7.3. | Warranty period (for all supplied equipment) from the date of commissioning: | 7.3. | Clause 7.3. to be deleted |
| 7.4. | Knowledge of general and special preventive maintenance, spare parts and troubleshooting/breakdowns. | 7.4. | Clause 7.4. to be deleted |
| **Section** **VII** | **LOT 1. 1.3. Installation for immunohistochemical and immunocytochemical staining of preparations, complete with a module for unmasking and deparaffinization with a starter kit of reagents. (Type U)** |
| 1.1. | Parameter | 1.1. | Clause 1.1. to be deleted |
| 5.1. | Uninterrupted Power Supply: power not less than 1500 VA | 5.1. | Uninterrupted Power Supply: power not less than 1500 W |
| 6.1. | The proposed model must be registered at the time of delivery to the State Unitary Enterprise "State Center for Expertise and Standardization of Medicines, Medical Devices and Medical Equipment" of the Ministry of Health of the Republic of Uzbekistan (if it is subject to registration under the HS code) | 6.1. | Clause 6.1. to be deleted |
| 7.3. | Warranty period (for all supplied equipment) from the date of commissioning: | 7.3. | Clause 7.3. to be deleted |
| 7.4. | Knowledge of general and special preventive maintenance, spare parts and troubleshooting/breakdowns. | 7.4. | Clause 7.4. to be deleted |
| **Section****VII** | **LOT 1. 1.4. Automatic rotary microtome in complete with section transfer system and sample cooling.** |
| 8.1. | Warranty period from the date of commissioning: | 8.1. | Warranty period from the date of commissioning:  | 24 months |
| **Section****VII** | **LOT 1. 1.5. Cryostat Microtome.** |
| 7.1. | Warranty period from the date of commissioning: | 7.1. | Warranty period from the date of commissioning:  | 24 months |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section****VII** | **LOT 1. 1.6. Semi-automatic rotary microtome.** |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII** | **LOT 1. 1.7. Paraffin Embedding Station. (Type N)** |
| 7.1. | Warranty period from the date of commissioning:  | 7.1. | Warranty period from the date of commissioning:  | 24 months |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 1. 1.7. Paraffin Embedding Station. (Type U)** |
| 7.1. | Warranty period from the date of commissioning:  | 7.1. | Warranty period from the date of commissioning:  | 24 months |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 1. 1.8. Section drying table.** |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 1. 1.9. Automatic Histological Tissue Processing Machine.** |
| 7.1. | Warranty period from the date of commissioning:  | 7.1. | Warranty period from the date of commissioning:  | 24 months |
| 8.1. | The equipment shall be installed, tested and commissioned by the supplier onsite (Republican Specialized Scientific and Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.1. Anesthesia-respiratory apparatus.** |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.2. Artificial lung ventilation apparatus. (Type N)** |
| 1.3. | Tidal volume in the range not less than: | 50-2000 ml | 1.3. | Tidal volume in the range not less than: | 20-2000 ml |
| 1.4. | Respiratory rate in the range of at least: | 5-80 breaths/min | 1.4. | Respiratory rate in the range of at least: | 1-80 breaths/min |
| 3.17. | Add clause | 3.17. | CO2 monitoring set for adults, single use: | 20 sets. |
| 3.18. | Add clause | 3.18. | Oxygen and aerosol mask (included) for adults: | 4 pcs of each size |
| 3.19. | Add clause | 3.19. | Test lung (reusable) for adults: | 2 sets |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.2. Artificial lung ventilation apparatus. (Type U)** |
| 2.3. | Built-in rechargeable battery that ensures the device operation for not less than 1 hour: compliance | 2.3. | Built-in rechargeable battery that ensures the device operation for not less than 120 minutes: compliance |
| 3.17. | By the time of delivery to the customs territory of the Republic of Uzbekistan, the expiration date of consumables (with a limited expiration date) must be at least: compliance | 3.17. | By the time of delivery to the customs territory of the Republic of Uzbekistan, the expiration date of consumables (with a limited expiration date) must be at least 80% of the set: compliance |
| 3.18. | 80% of the set: compliance | 3.18. | Clause 3.18. to be deleted |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.3. Portable Ventilator (Transport).** |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.4. ECG (12-channel).** |
| 2.2. | Frequency range of digital registration not less than: | 2,5/5/10/20 мм/мВ | 2.2. | Frequency range of digital registration not less than: | 0,05 - 250 Hz |
| 6.2 |  Chest electrodes (optional) | 6.2 |  Chest electrodes (additional) |
| 6.3. |  Limb electrodes (optional) | 6.3. |  Limb electrodes (additional) |
| 6.5. |  Rechargeable battery (optional) | 6.5. |  Rechargeable battery (additional) |
| **Section** **VII.** | **LOT 2. 2.5. Patient monitor (ECG, HR, NIBP, SpO2, temperature, respiration, IBP, central hemodynamics, BIS).** |
| 1.6.9. | Heart rate in the range not less than: | 20 - 300 bpm | 1.6.9. | Input impedance not less than: | 5 mΩ |
| 1.6.15. | Pacemaker signal definition: | 13 classifi-cations | 1.6.15. | Pacemaker signal definition: | compliance |
| 1.7. | Amplitude in the range not less than: | 0,5 - 5,0 мв | 1.7. | Amplitude |
| 3.1. | Oxygen probe; | 2 pcs. | 3.1. | BIS monitoring adapter cable; | 2 pcs. |
| 3.2. | Non-invasive ventilation accessory set for adults (various sizes); | 2 sets (autoclavable) | 3.2. | BIS electrodes (disposable) for adults; | not less than 20 pcs; |
| 3.3. | Non-invasive ventilation kit for children (various sizes); | 2 sets (autoclavable) | 3.3. | Paper for built-in thermal printer; | not less than 20 rolls |
| 3.4. | Adult patient circuit (autoclavable); | 2 pcs. | 3.4. | Disposable adhesive ECG electrodes for adults; | 100 pcs. |
| 3.5. | Patient circuit for children | 2 pcs.(autoclavable) | 3.5. | NIBP cuff set, reusable, for adults, at least three sizes (large, medium, small); | 1 set. |
| 3.6. | Add clause | 3.6. | Connecting line for NIBP channel; | 1 pc. |
| 3.7. | Add clause | 3.7. | Reusable sensor for measuring pulse oximetry (SpO2) for adults; | 2 pcs. |
| 3.8. | Add clause | 3.8. | IAD kit; | 10 set |
| 3.9. | Add clause | 3.9. | IBP measurement cable;; | 2 pcs. |
| 3.10 | Add clause | 3.10 | Temperature probe, cutaneous, for adults, reusable; | 2 pcs. |
| 3.11. | Add clause | 3.11. | Temperature probe, intracavitary, for adults, reusable | 1 pc. |
| 3.12. | Add clause | 3.12. | ECG cable not less than 3 meters; | 1 pc. |
| 3.13. | Add clause | 3.13. | Patient cable not less than 3 meters; | 1 pc. |
| 3.14 | Add clause | 3.14 | Mobile rack braking device for installing a monitor; | 1 pc. |
| 8.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 8.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.6. Patient monitor (ECG, HR, NIBP, SpO2, temperature, respiration).** **(Type N)** |
| 12.1. | Parts and supplies (for each device): | compliance | 12.1. | Paper for built-in thermal printer; | not less than 20 rolls |
| 12.2. | Oxygen probe | 2 pcs.; | 12.2. | Disposable adhesive ECG electrodes for adults; | 100 pcs. |
| 12.3. | Adult Non-Invasive Ventilation Accessory Set (various sizes) - 2 sets (autoclavable); | compliance | 12.3. | NIBP cuff set, reusable, for adults, at least three sizes (large, medium, small); | 1 set |
| 12.4. | Pediatric Non-Invasive Ventilation Accessory Set (various sizes) | 2 sets (autoclavable); | 12.4. | Connecting line for NIBP channel; | 1 pc. |
| 12.5. | Adult patient circuit (autoclavable) | 2 pcs.; | 12.5. | Reusable sensor for measuring pulse oximetry (SpO2) for adults; | 2 pcs. |
| 12.6. | Patient circuit for children (autoclavable) | compliance | 12.6. | Temperature probe, skin, for adults, reusable; | 2 pcs. |
| 12.7. | Add clause | 12.7. | Temperature probe, intracavitary, for adults, reusable; | 1 pc. |
| 12.8. | Add clause | 12.8. | ECG cable not less than 3 meters; | 1 pc. |
| 12.9. | Add clause | 12.9. | Patient cable not less than 3 meters; | 1 pc. |
| 12.10. | Add clause | 12.10. | Mobile stand braking device for monitor installation | 1 pc. |
| 12.7. | The supplier (if necessary) must complete the equipment (taking into account the specifics of the proposed model) with all the necessary parts, assemblies, materials (the cost of which should be included in the bid) for assembly, installation and commissioning at the workplace. | 12.11. | The supplier (if necessary) must complete the equipment (taking into account the specifics of the proposed model) with all the necessary parts, assemblies, materials (the cost of which should be included in the bid) for assembly, installation and commissioning at the workplace. |
| 12.8. | The supplier (if necessary) must complete the equipment (taking into account the specifics of the proposed model) with all the necessary spare parts (the cost of which must be included in the bid) for its full operation during the warranty period. A list of such spare parts must be submitted in the bid. | 12.12. | The supplier (if necessary) must complete the equipment (taking into account the specifics of the proposed model) with all the necessary spare parts (the cost of which must be included in the bid) for its full operation during the warranty period. A list of such spare parts must be submitted in the bid. |
| 16.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 16.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.6. Patient monitor (ECG, HR, NIBP, SpO2, temperature, respiration).** **(Type U)** |
| 1.7. | Respiration rate 1.56; 6.25; 12.5; 25 mm/s: compliance | 1.7. | Respiration rate in the range of at least:  | 2 - 150 rpm |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.7. Syringe pump. (Type N)** |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.7. Syringe pump. (Type U)** |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.8. Infusion pump.** |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.9. Portable aspirator (1-cup; for debridement of the upper respiratory tract).** |
| 3.2. | Secret container (optional): | 2 pcs | 3.2. | Secret container (additional): | 2 pcs |
| 3.3. | Lid for container (optional): | 2 pcs | 3.3. | Lid for container (additional): | 2 pcs |
| 9.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 9.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.10. Surgical aspirator.** |
| 3.1. | If necessary, a mobile stand on 4 casters, two of which with a brake (see paragraph 1.2., option ii):  | 1 pc | 3.1. | If necessary, a mobile stand on 4 casters, two of which with a brake | 1 pc |
| 3.2. | Foot pedal (optional): | 1 pc. | 3.2. | Foot pedal (if necessary): | 1 pc. |
| 8.1. | Warranty period from the day of commissioning: | 8.1. | Warranty period from the day of commissioning:  | 24 months |
| 9.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 9.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 2. 2.11. Surgical Electric Suction.** |
| 6.1. | Warranty period from the day of commissioning: 24 months | 12 месяца | 6.1. | Warranty period from the day of commissioning: 24 months | compliance |
| 7.1. | Supplier should organize assembling, testing and commissioning of the equipment at workplace (Republican Specialized Scientific-Practical Medical Center of Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 3. 3.2. Broadcast video system.** |
| 1.3.1.16. | Power consumption: no more than 12 Tue | 1.3.1.16. | Power consumption: no more than 12 W |
| **Section** **VII.** | **LOT 4. 4.2. Autoclave 100 liters. (Type N)** |
| 4.3 | Pressure and water level sensor (optional): | 4.3 | Pressure and water level sensor (additional): |
| **Section** **VII.** | **LOT 4. 4.2. Autoclave 100 liters. (Type U)** |
| 3.3. | Pressure and water level sensor (optional): | 3.3. | Pressure and water level sensor (additional): |
| **Section** **VII.** | **LOT 6. 6.1. A set of equipment and instruments for laparoscopic operations and donor nephrectomy.** |
| 31. | Uterine manipulator for laparoscopic surgery of appendages and pertubation - 1 pc. | compliance | 31. | Collapsible dissector to / c/n. №33510RG or analogue:  | 2 pcs. |
| 31.1. | Provides anteflexion and movement of the uterus to the side inside the pelvis during gynecological laparoscopic surgery, including hysterectomy | compliance | 31.1. | Atraumatic jaws, with one movable jaw, Grasping Forceps, jaws, right-angled; | 2 pcs. |
| 31.2. | Anteflexia of the uterus up to degrees | at least 90 | 31.2. |  Size in mm: 26mm;  | compliance |
| 31.3. | Possibility of raising the uterus to identify the posterior fornix and posterior vaginal wall | compliance | 31.3. | Length in cm: 36cm;  | compliance |
| 31.4. | Interchangeable intrauterine inserts for uterus sizes from/to cm | at least 5 to 10 | 31.4. | Plastic handle, without retainer;  | 2 pcs. |
| 31.5. | Staggered markings to determine the position of the uterus | compliance | 31.5. | LUER lock for cleaning;  | 2 pcs |
| 31.6. | The cervix is held with a spring clip clamp | compliance | 31.6. | Sterilizable;  | compliance |
| 31.7. | The locking mechanism should facilitate manipulation. Using the lever, the manipulator is fixed and released again | compliance | 31.7. |  Clause 31.7 to be deleted. |
| 31.8. | Light weight and ergonomic handle for one-hand operation | compliance | 31.8. | Clause 31.8. to be deleted |
| 31.9. | Pertubation hose connection without seal expansion and should not allow colored fluid to escape | compliance | 31.9. | Clause 31.9. to be deleted |
| 31.10. | Working insert-1 | compliance | 31.10. | Clause 31.10. to be deleted |
| 31.11. | Length, mm | no more than 50 | 31.11. | Clause 31.11. to be deleted |
| 31.12. | Size, mm | no more than 4.0 | 31.12. | Clause 31.12 to be deleted. |
| 31.13. | Working insert-2 | compliance | 31.13. | Clause 31.13. to be deleted |
| 31.14. | Length, mm | no more than 50 | 31.14. | Clause 31.14. to be deleted |
| 31.15. | Size, mm | no more than 4.5 | 31.15. | Clause 31.15. to be deleted |
| 31.16. | Working insert-3 | compliance | 31.16. | Clause 31.16. to be deleted |
| 31.17. | Length, mm | no more than 80 | 31.17. | Clause 31.17. to be deleted |
| 31.18. | Size, mm | no more than 4.8 | 31.18. | Clause 31.18. to be deleted |
| 31.19. | Hose holder | compliance | 31.19. | Clause 31.19. to be deleted |
| 42.9. | Weight, kg | 42.9. | Clause 42.9. to be deleted |
| 45.4. | Dimensions, (length x height x width mm.) | 45.4. | Clause 45.4. to be deleted |
| 45.5. | Weight, g | 45.5. | Clause 45.5. to be deleted |
| 48.5. | Average power consumption W. | 48.5. | Clause 48.5. to be deleted |
| 48.8. | High performance high flow mode up to 40 l/min. | 48.8. | Clause 48.8. to be deleted |
| 52.23. | Power consumption, W | 52.23. | Clause 52.23. to be deleted |
| 59.5. | Dimensions, (W x H x D), mm | 59.5. | Clause 59.5. to be deleted |
| 59.6. | Weight, kg | 59.6. | Clause 59.6. to be deleted |
| 70.1. | Shelf size, (width x depth) mm. | OK. 650 x 500 | 70.1. | Shelf size, (width x depth) mm. | approx. 650 x 500 |
| 70.2. | Rack size (width x height x depth), mm | OK. 800x1500x800 | 70.2. | Rack size (width x height x depth), mm | approx. 800x1500x800 |
| 70.4. | Rack weight, without equipment kg | 70.4. | Clause 70.4. to be deleted |
| **Section** **VII.** | **LOT 6. 6.2. Urological video laparoscopic stand with 3D optics.** |
| 3.1.2. | Direction from observation 30° | thirty | 3.1.2. | Direction from observation 30° | compliance |
| 3.2.3. | The port must accept 10mm diameter instruments | nov 10 | 3.2.3. | The port must accept 10mm diameter instruments | compliance |
| 3.3.3. | The port must accept tools with a diameter of 5 mm | 05 mm | 3.3.3. | The port must accept tools with a diameter of 5 mm | compliance |
| **Section****VII.** | **LOT 6. 6.3. Ultrasonic scalpel.** |
| 1.15. | Power consumption not less than 150 VA | 1.15. | Clause 1.15. to be deleted |
|  | Electrosurgical Coagulator |  | Clause to be deleted |
| **2 .** | **Application area:** | **2 .** | Clause 2. to be deleted |
| 2.1.0. | Abdominal Surgery | 2.1.0. | Clause 2.1.0 to be deleted |
| 2.1.1. | Thoracic surgery | 2.1.1. | Clause 2.1.1 to be deleted |
| 2.1.2. | Neurosurgery | 2.1.2. | Clause 2.1.2. to be deleted |
| 2.1.3. | Urology | 2.1.3. | Clause 2.1.3. to be deleted |
| 2.1.4. | Gynecology | 2.1.4. | Clause 2.1.4. to be deleted |
| 2.1.5. | ENT surgery | 2.1.5. | Clause 2.1.5.to be deleted |
| 2.1.6. | Laparoscopy/Endoscopy | 2.1.6. | Clause 2.1.6. to be deleted |
| 2.2. | Operation with touch monitor or membrane buttons: | 2.2. | Clause 2.2. to be deleted |
| 2.3. | Full display of parameters on the front panel: | 2.3. | Clause 2.3. to be deleted |
| 2.4. | Continuous monitoring of the neutral electrode: | 2.4. | Clause 2.4. to be deleted |
| 2.5. | Continuous monitoring of leakage current: | 2.5. | Clause 2.5. to be deleted |
| 2.6. | Continuous self-test function: | 2.6. | Clause 2.6. to be deleted |
| 2.7. | Overload protection: | 2.7. | Clause 2.7. to be deleted |
| 2.8. | Defibrillator surge protection: | 2.8. | Clause 2.8. to be deleted |
| 2.9. | Automatic blocking in case of malfunction: | 2.9. | Clause 2.9. to be deleted |
| 2.10. | Audible and visual alarms: | 2.10. | Clause 2.10. to be deleted |
| 2.11. | Automatic adaptation of the selected mode to tissue resistance: | 2.11. | Clause 2.11. to be deleted |
| 2.12. | Different color indication of cutting and coagulation modes: | 2.12. | Clause 2.12. to be deleted |
| 2.13. | Cutting and coagulation control - hand and foot pedal: | 2.13. | Clause 2.13. to be deleted |
| 2.14. | Outputs (minimum): 2 monopolar and 1 bipolar: | 2.14. | Clause 2.14. to be deleted |
| 2.15. | Connectors for connecting cables must be protected from water ingress: | 2.15. | Clause 2.15. to be deleted |
| 2.16. | Anti-slip rubber feet: | 2.16. | Clause 2.16. to be deleted |
| **2.17.** | **Monopolar modes:** | **2.17.** | Clause 2.17. to be deleted |
| 2.17.1. | Cut-coagulation mode, power | 2.17.1. | Clause 2.17.1. to be deleted |
| 2.17.2. | Soft coagulation mode, power | 2.17.2. | Clause 2.17.2. to be deleted |
| 2.17.3. | "Forced coagulation" mode, power | 2.17.3. | Clause 2.17.3. to be deleted |
| 2.17.4. | Spray coagulation mode | 2.17.4. | Clause 2.17.4. to be deleted |
| **2.18.** | **Bipolar modes:** | **2.18.** | Clause 2.18. to be deleted |
| 2.18.1. | Cutting mode, power | 2.18.1. | Clause 2.18.1. to be deleted |
| 2.18.2. | Coagulation mode, power | 2.18.2. | Clause 2.18.2. to be deleted |
| 2.18.3. | Auto start / auto stop function for bipolar coagulation: | 2.18.3. | Clause 2.18.3. to be deleted |
| **Section****VII.** | **LOT 7. 7.1. Urological video laparoscopic stand.** |
| 1.5.3. | USB connectors, pcs. | at least 4 | 1.5.3. | USB connectors, pcs. | at least 2 |
| 1.5.5. | Waterproof keyboard with English / Russian layout | availability | 1.5.5. | Clause 1.5.5. to be deleted |
| 1.6.7. | Safety class not less than Cardiac Floating Defib (CF) | availability | 1.6.7. | Safety class not less than Body Floating (BF) | availability |
| 3.24.5. | Quick tube connection with click system | availability | 3.24.5. | Clause 3.24.5. to be deleted |
| 3.24.6. | Plastic handle without lock | availability | 3.24.6. | Clause 3.24.7. to be deleted |
| 3.26.1. | Diameter, mm | at least 6 | 3.26.1. | Diameter, mm | at least 5.5 |
| 3.34.4. | External dimensions, (W x D x H), mm, Not less than | 730x220x130 | 3.34.4. | The outside dimensions must match the tools in this set. | compliance |
| **Section****VII.** | **LOT 8. 8.1. Upper and lower urinary tract endourological instrument set (adult).** |
| 8.1. | Spare insert with end jaws, for forceps pos. 8 | 10 | 8.1. | Clause 8.1. to be deleted |
| 28.8. | Electrode monopolar, coagulation, 5 Fr., flexible, bellied, length 53 cm: 2 | 28.8. | Electrode monopolar, coagulation, 5 Fr., flexible, bellied, length at least 45 cm: 2 |
| 28.9. | Electrode unipolar, needle, 5 Fr., unipolar, length 53 cm: 2 | 28.9. | Electrode unipolar, needle, 5 Fr., unipolar, length at least 45 cm: 2 |
| 43. | Nephroscope grasping forceps, flexible, for minimally invasive PCNL (MiniPerc), with 2 movable jaws, size 5 Fr, with a length of at least 40 cm:  | 3 | 43. | Nephroscope grasping forceps, semi-rigid, for minimally invasive PCNL (MiniPerc), with 2 movable jaws, size 5 Fr, with a length of at least 40 cm:  | 3 pcs |
| 44. | Nephroscope biopsy forceps, flexible, for minimally invasive PCNL (MiniPerc), with 2 movable jaws, size 5 Fr, with a length of at least 40 cm:  | 1 | 44. | Nephroscope biopsy forceps, semi-rigid, for minimally invasive PCNL (MiniPerc), with 2 movable jaws, size 5 Fr, with a length of at least 40 cm:  | 1 pc |
| 46. | Container for two rigid endoscopes from 33 to 35 cm long, plastic, perforated for sterilization (steam, gas, hydrogen peroxide) and storage:  | 2 pcs | 46. | The outside dimensions of the container for two rigid endoscopes must match the tools in this set:  | 2 pcs |
| 55. | Sealing cap, for trocars - Used with extractors / adapters together with instruments with a diameter not exceeding 5 mm; Autoclavable, reusable; Total number of sealing caps, pcs: 50 | 55. | Clause 55 to be deleted |
| 56 | Sealing cap, used with trocars - Size, not less than 10 mm;Used with extractors/adapters together with instruments of size no larger than 10 mm; Autoclavable, reusable; Total number of sealing caps, pcs | 56 | Clause 56 to be deleted |
| **Section** **VII.** | **LOT 9. 9.1. TURP and Laser enucleation instrument kit.** |
| 8.5. | Additional tube for continuous flow: 1 pc | 8.5. | Clause 8.5. to be deleted |
| **Section** **VII.** | **LOT 9. 9.5. Uroflowmeter.** |
| 3.2. | Bluetooth and/or WiFi communication card  | 3.2. | Bluetooth card, WiFi and/or wired cable |
| 3.3. | Funnel | 3 pcs | 3.3. | Funnel | 1 pc |
| 3.4. | Urine container | 3 pcs | 3.4. | Urine container | 1 pc |
| 3.5. | AA batteries to power the sensor | 3 pcs | 3.5. | AA batteries to power the sensor | 6 pcs |
| 3.7. | Height-adjustable toilet chair for uroflowmetry | 2 pcs | 3.7. | Height-adjustable toilet chair for uroflowmetry | 1 pc |
| 3.9. | Paper for printouts in a thermal printer | 50 pcs | 3.9. | Paper for printouts in a thermal printer | 100 pcs |
| **Section** **VII.** | **LOT 11. 11.1. Bronchofibroscopy set. (Type N)** |
| 3. | Light source: External or integrated into the video center light source, if the light source is integrated, then in paragraphs 7.1 to 7.3 it is not necessary to specify information | 3. | Light source: External or integrated into the video center light source | compliance |
| 4.6 | Diagonal not less than: | 21” | 4.6. | Diagonal not less than: | 27” |
| 4.9 | Number of colors not less than: | 16.7 million | 4.9. | Clause 4.9. to be deleted |
| 4.12 | Response time no more than: | 22 ms | 4.12. | Clause 4.12. to be deleted |
| 4.14 | Memory of user settings: | compliance | 4.14. | Clause 4.14. to be deleted |
| **Section** **VII.** | **LOT 11. 11.2. Videogastroscopy set.** |
| 4.1. | Disposable biopsy forceps with oval fenestrated jaws - 100 pcs. Suitable for paragraph 1.1.6. | 4.1. | Disposable biopsy forceps with oval fenestrated jaws - 100 pcs. Suitable for paragraph 3.1.7. |
| 4.2. | Disposable biopsy forceps with fenestrated crocodile jaws and a needle - 100 pcs. Suitable for paragraph 1.1.6. | 4.2. | Disposable biopsy forceps with fenestrated crocodile jaws and a needle - 100 pcs. Suitable for paragraph 3.1.7. |
| 4.3. | Disposable Rat Tooth Grasping Forceps - 10 pcs. Suitable for paragraph 1.1.6. | 4.3. | Disposable Rat Tooth Grasping Forceps - 10 pcs. Suitable for paragraph 3.1.7. |
| 4.4. | Disposable Grasping Forceps with Rubber Jaws 5 pcs. | 4.4. | Disposable Grasping Forceps with Rubber for removing sharp or flat objects such as needles and pins jaws 5 pcs. |
| 4.5. | For removing sharp or flat objects such as needles and pins | 4.5. | Clause 4.5. to be deleted |
| 7.1. | Diagonal not less than: | 21" | 7.1. | Diagonal not less than: | 27" |
| 7.2 | Monitor panel - LCD matrix aSi TFT | 7.2 | Resolution of at least 1920×1080 pixels ( Full HD ) |
| 7.3 | Resolution of at least 1920×1080 pixels ( Full HD ) | 7.3 | Aspect Ratio: 16:9 |
| 7.4 | User memory function | 7.4 | Contrast ratio not less than:1000:1 |
| 7.5. | Add clause | 7.5. | Brightness not less than: 450 cd/m2 |
| 7.6. | Add clause | 7.6. | Viewing angle (vertical/horizontal) not less than: 1780 |
| 7.7. | Add clause | 7.7. | Wide range of input and output signals:  | specify |
| 8.1. | Wheels or carrying handle | 8.1. | Clause 8.1. to be deleted |
|  | 9.7 | The presence of a bracket for installing an LCD monitor with a diagonal of at least 21’’  | 9.7 | The presence of a bracket for installing an LCD monitor with a diagonal of at least 27’’  |
| **Section** **VII.** | **LOT 11. 11.3. Laryngoscopy set.** |
| 1.8. | Up to 4.000 sterilization cycles in autoclave at 134° C | 1.8. | Clause 1.8. to be deleted |
| **Section** **VII.** | **LOT 13. 13.1. Automatic immunochemiluminescent analyzer (among other things, with the ability to determine the concentration of tacrolimus in the blood) ICHLA. (Type N)** |
| 1.1.9. | Thyroid binding globulin (TBG) | 1.1.9. | Clause 1.1.9. to be deleted |
| 1.10.1. | Method of enzymatically enhanced chemiluminescence (non-enzymatic with long-term stability of reagents is allowed); | 1.10.1. | Method of chemiluminescence: |
| 1.10.7. | Refrigeration area with independent power supply; | 1.10.7. | Refrigeration area:  |
| 1.12.2. | For all samples, you can view the time until the result is obtained no more than: | 28 minutes | 1.12.2. | For all samples, you can view the time until the result is obtained no more than: | 29 minutes |
| **Section** **VII.** | **LOT 13. 13.1. Automatic immunochemiluminescent analyzer (among other things, with the ability to determine the concentration of tacrolimus in the blood) ICHLA. (Type U)** |
| 1.1.9. | Thyroid binding globulin (TBG) | 1.1.9. | Clause 1.1.9. to be deleted |
| 1.10.1. | Method of enzymatically enhanced chemiluminescence (non-enzymatic with long-term stability of reagents is allowed); | 1.10.1. | Method of chemiluminescence: |
| 1.10.8. | Refrigeration area with independent power supply; | 1.10.8. | Refrigeration area:  |
| 1.12.2. | For all samples, you can view the time until the result is obtained no more than: | 28 minutes | 1.12.2. | For all samples, you can view the time until the result is obtained no more than: | 29 minutes |
| 4.4. | FSH (FSH) | 200 tests | 4.4. | FSH (FSH) | 600 tests |
| 4.5. | Luteinizing Hormone (LH) | 200 tests | 4.5. | Luteinizing Hormone (LH) | 600 tests |
| 4.9. | Testosterone (TEST) | 200 tests | 4.9. | Testosterone (TEST) | 1000 tests |
| 4.13 | Tacrolimus  | 100 tests | 4.13 | Tacrolimus  | at least 200 tests |
| 4.14. | Add clause | 4.14. | Prostate Specific Antigen (PSA)  | at least 5000 tests |
| 4.15. | Add clause | 4.15. | Free prostate-specific antigen (f-PSA) or (f PSA)  | at least 100 tests |
| **Section** **VII.** | **LOT 13. 13.2. Serum inactivator.** |
| 1.6. | The accuracy of maintaining the temperature in the working chamber during the inactivation mode | 56°С - 57°С | 1.6. | Clause 1.6. to be deleted |
| **Section** **VII.** | **LOT 13. 13.3. Electrophoresis chamber.** |
| 1.2.12. | Power supply | 1.2.12. | Clause 1.12.12. to be deleted |
| **Section** **VII.** | **LOT 13. 13.8. Hematology analyzer with reagent set.** |
| 7.1. |  Warranty period | compliance | 7.1. |  Warranty period | 24 months |
| **Section** **VII.** | **LOT 13. 13.10. Sperm Analyzer.** |
| 6.1. | 24 months from commissioning date | give | 6.1. | 24 months from commissioning date | provide |
| 6.2. | During the warranty period, the supplier must ensure the arrival of the master at the place of operation of the equipment no later than 3 working days after receiving a written notification from the authorized party. | give | 6.2. | During the warranty period, the supplier must ensure the arrival of the master at the place of operation of the equipment no later than 3 working days after receiving a written notification from the authorized party. | provide |
| 6.3. | During the warranty period, the supplier must ensure that preventive inspections of the equipment are carried out. The frequency of preventive inspections is determined by the technical characteristics of the equipment. The participant must specify the frequency of preventive examinations during the warranty period in the tender offer. | give | 6.3. | During the warranty period, the supplier must ensure that preventive inspections of the equipment are carried out. The frequency of preventive inspections is determined by the technical characteristics of the equipment. The participant must specify the frequency of preventive examinations during the warranty period in the tender offer. | provide |
| **Section** **VII.** | **LOT 13. 13.12. Apparatus for the study of the mineral composition of the stone.** |
| 2.3. | Uninterruptible power supply of appropriate power, not less than 1000 VA | 2.3. | Uninterruptible power supply of appropriate power, not less than 1000 W |
| **Section** **VII.** | **LOT 14. 14.1. Multislice CT scanner (at least 64 slices).** |
| 1.3.2. | Voltage on the X-ray tube in the range not less than: | 80 - 135 sq. | 1.3.2. | Voltage on the X-ray tube in the range not less than: | 80 - 135 kV. |
| 1.10.7. | DVD-RW drive: | compliance | 1.10.7. | DVD-RW or DVD-R drive: | compliance |
| 1.11.5. | DVD-RW drive: | compliance | 1.11.5. | DVD-RW or DVD-R drive: | compliance |
| **Section** **VII.** | **LOT 15. 15.2. Digital x-ray system with remote control.** |
| 2.3. | Anode voltage range, | not more than 40, not less than 150 sq. | 2.3. | Anode voltage range, | not more than 40, not less than 150 kW |
| 6.5. | Lateral movement: not less than | 250 cm | 6.5. | Lateral movement: not less than | 250 mm |
| **Section** **VII.** | **LOT 15. 15.4. C-arm digital x-ray system based on a flat panel detector for a hybrid operating room.** |
| 1.5.5. | - minimum voltage: not more than - maximum anode voltage of X-ray tube in monoblock version: not less than | 40 - 120 sq. | 1.5.5. | - minimum voltage: not more than - maximum anode voltage of X-ray tube in monoblock version: not less than | 40 - 120 kW. |
| **Section** **VII.** | **LOT 16. 16.1 Multifunctional ultrasound machine with 3 (linear, convex, transrectal) probes.** |
| 1.15. | Number of digital processing channels not less than 1,000,000 | compliance | 1.15. | Clause 1.15. to be deleted |
| 1.19. | Automatic image optimization technology based on the analysis of the acoustic properties of the studied tissues in B-mode, M-mode and spectral Doppler modes: | compliance | 1.19. | Automatic image optimization technology based on the analysis of the acoustic properties of the studied tissues | availability |
| 1.24. | Demonstrations of color Doppler flow with 3D visualization effect | compliance | 1.24. | Clause 1.24. to be deleted |
| 1.25.  | Panoramic widescreen reconstruction mode in B-mode and power Doppler mode: | compliance | 1.25. | Panoramic scanning | compliance |
| 1.43. | Saving and processing "raw" data: | compliance | 1.43. | Clause 1.43. to be deleted |
| 1.44. | Mode of automatic measurement of the main parameters of fetal biometrics | compliance | 1.44. | Clause 1.44. to be deleted |
| 1.45. | Program for automatic determination and calculation of the thickness of the collar space | compliance | 1.45. | Clause 1.45. to be deleted |
| 1.57. | Touch panel with gesture control, diagonal not less than: 13.3 " | compliance | 1.57. | Touch panel with gesture control, diagonal not less than: 10.4 " | compliance |
| 1.58. | Touch screen tilt angle, not less than degrees: 30° | compliance | 1.58. | Clause 1.58. to be deleted |
| 1.64. | Hard disk capacity not less than: 1000 GB | compliance | 1.64. | Hard disk capacity not less than: 500 GB | compliance |
| 1.65. | Supported file formats (single images): DICOM , JPEG , BMP : | compliance | 1.65. | Supported file formats (single images): DICOM, JPEG: | compliance |
| 1.66. | Supported file formats (movie clips): DICOM, AVI, JPEG, MPEG -4: | compliance | 1.66. | Supported file formats (movie clips): DICOM, AVI, JPEG: | compliance |
| 1.70. | VGA: | compliance | 1.70. | Clause 1.70. to be deleted |
| 1.79. | Linear sensor; frequency range not less than: 4.5 - 13.5 MHz | compliance | 1.79. | Linear sensor; frequency range not less than: 4.5 - 12.0 MHz | compliance |
| 1.81. | Microconvex intracavitary sensor; frequency range not less than: 2.6-12.8 MHz | compliance | 1.81. | 1.81. Microconvex intracavitary sensor; frequency range not less than: 4.0-9.0 MHz | compliance |
| 1.82. | The size of the working surface of the aperture, not less than, mm : 11mm | compliance | 1.82. | The size of the working surface of the aperture, not less than, mm: 9 mm | compliance |
| **Section** **VII.** | **LOT 16. 16.2. Portable ultrasound with 3 (convex, linear, transrectal) probes.** |
| 1.6.10. | Start of production of this version of the ultrasound scanner not earlier than | 2021 | 1.6.10. | Clause 1.6.10. to be deleted |
| 1.7.1. | Software in Russian, including built-in help system | availability | 1.7.1. | Software in Russian or English | availability |
| 1.7.6. | Number of receiving and transmitting channels, not less than | 504 576 | 1.7.6. | Clause 1.7.6. to be deleted |
| 1.7.17. | Ultrasound imaging mode due to multibeam composite scanning for convex, microconvex and linear transducers:* Number of beams transmitted simultaneously, not less than
* Number of simultaneously received beams, not less than
* Compatible with coded harmonic mode
* Compatibility with organ-specific regimen
* Doppler Mode Compatibility

Contrast Imaging Compatibility | availability99 | 1.7.17. | Ultrasound imaging mode due to multibeam composite scanning for convex, microconvex and linear transducers:* Number of beams transmitted simultaneously, not less than
* Number of simultaneously received beams, not less than
* Compatible with coded harmonic mode
* Compatibility with organ-specific regimen
* Doppler Mode Compatibility
 | availability99 |
| 1.8.5. | Automatic optimization of the Doppler spectrum at the touch of a button:* Automatic Baseline Correction
* Automatic PRF adjustment

Automatic spectrum inversion | availability | 1.8.5. | Clause 1.8.5. to be deleted |
| 1.8.7. | Color Doppler Velocity Mapping (CFD):* Automatic Image Optimization in Color Flow Mode
* Automatic color map inversion depending on the scanning angle

Simultaneous display of B-Mode and B+Color Flow images in real time | availabilityavailabilityavailabilityavailability | 1.8.7. | Color Doppler Velocity Mapping (CFD):Simultaneous display of B-Mode and B+Color Flow images in real time | availabilityavailability |
| 1.11.2. | Hard disk capacity not less than | 1 TB | 1.11.2. | Hard disk capacity not less than | 180 GB |
| 1.11.4. | Software and hardware features that access and archive raw ultrasound data (prospectively and retrospectively) for further image optimization and post-processing | availability | 1.11.4. | Clause 1.11.4. to be deleted |
| 3.6. | Trolley height, mm:Minimum, no moreMaximum, not less | 8281079 | 3.6. | Trolley height, mm:Minimum, no moreMaximum, not less | 830920 |
| 5.2. | Maintenance instruction in Russian | availability | 5.2. | Maintenance instruction in Russian or in English | availability |
| **Section** **VII.** | **LOT 16. 16.3. Ultrasound scanner, portable (sensors: convex, linear, sector phased for adults).** |
| 1.1. | Russified interface | compliance | 1.1. | Russian interface or English interface | compliance |
| 1.4. | Cine loop in black and white mode not less than | 8000 | 1.4. | Cine store capacity not less than | 1000 frames |
| 1.10. | Connectable to B/W and color laser printer | compliance | 1.10. | Possibility to connect to a monochrome printer | compliance |
| 1.15. | Availability of automatic image optimization technology based on the analysis of the acoustic properties of the studied tissues in B-mode, M-mode and spectral Doppler modes: | compliance | 1.15. | Automatic image optimization technology based on the analysis of the acoustic properties of the tissues under study: | availability  |
| 3.11. | Bending anatomical M-mode | compliance | 3.11. | Clause 3.11. to be deleted |
| 3.12. | Automatic measurement of vessel walls | compliance | 3.12. | IMT measurement  | compliance |
| 3.40. | Saving and processing "raw" data: | compliance | 3.40. | Clause 3.40. to be deleted |
| 3.42. | Acquisition of a three-dimensional (3 D ) ultrasound image by the method of free hand without the use of volumetric sensors | compliance | 3.42. | Clause 3.42. to be deleted |
| 4.4. | Adjustable console and monitor | compliance | 4.4. | Adjustable monitor | compliance |
| 5.2. | Hard disk with a capacity of at least | 1000 GB | 5.2. | Hard disk with a capacity of at least | 180 GB |
| 5.3. | Supported file formats (single images): DICOM , JPEG , BMP | compliance | 5.3. | Supported file formats (single images): DICOM, JPEG:  | compliance |
| 5.4. | Supported file formats (movie clips): DICOM , AVI , JPEG , MPEG -4 | compliance | 5.4. | Supported file formats (movie clips): DICOM, AVI, JPEG: | compliance |
| 7.3. | Convex broadband multi-frequency transducer, not less than | 1.7-6 MHz | 7.3. | Convex broadband multi-frequency transducer, not less than | 2.0-5.0 MHz |
| 7.4. | Linear broadband multi-frequency sensor, not less than | 3.0-13.0 MHz | 7.4. | Linear broadband multi-frequency sensor, not less than | 4.5-12.0 MHz |
| 7.5. | Sector phased sensor not less than | 1.3-4.7 MHz | 7.5. | Sector phased sensor not less than | 1.3-4.7 MHz |
| 7.6. | The presence of a biopsy nozzle for each sensor | availability | 7.6. | The presence of a biopsy nozzle for linear and convex sensors | availability |
| 8.3. | Work from the built-in battery, not less than: 40 min | 8.3. | Work from the built-in battery, not less than:  | 30 min |
| 8.5. | Black and white, medical, video thermal printer for printing images and reports | 8.5. | Black and white, medical, thermal printer for printing images and reports |
| **Section** **VII.** | **LOT 16. 16.4. Multifunctional ultrasound scanner (sensors: convex, linear, sector phased for adults, intracavitary; biopsy gun included).** |
| 1.16. | Automatic image optimization technology based on the analysis of the acoustic properties of the studied tissues in B-mode, M-mode and spectral Doppler modes: | compliance | 1.16. | Automatic image optimization technology based on the analysis of the acoustic properties of the tissues under study | availability |
| 2.1.3. | Demonstrations of color Doppler flow with 3D visualization effect | compliance | 2.1.3. | Three-dimensional reconstruction (3D mode) | compliance |
| 2.1.4. | Panoramic Wide Angle Image Reconstruction Mode in B-Mode and Power Doppler Mode | compliance | 2.1.4. | Panoramic scanning | compliance |
| 2.8. | Saving and processing "raw" data | compliance | 2.8. | Clause 2.8. to be deleted |
| 2.9. | Mode of automatic measurement of the main parameters of fetal biometrics | 2.9. | Clause 2.9. to be deleted |
| 2.10. | Program for automatic determination and calculation of the thickness of the collar space | 2.10. | Clause 2.10. to be deleted |
| 2.12.2. | Evaluation of tissue elasticity by compression elastography (supported by a convex probe) | compliance | 2.12.2. | Evaluation of tissue elasticity by compression elastography (supported by a linear probe) | compliance |
| 2.12.5. | Enhanced needle visualization mode for invasive procedures | 2.12.5. | Clause 2.12.5. to be deleted |
| 3.3. | Touch panel with control, diagonal not less than | 12" | 3.3. | Touch panel with control, diagonal not less than | 10" |
| 4.2. | Hard disk with a capacity of at least | 1000 GB | 4.2. | Hard disk with a capacity of at least | 500 GB |
| 4.3. | Supported file formats (single images): DICOM, JPEG, BMP | compliance | 4.3. | Supported file formats (single images): DICOM, JPEG | compliance |
| 4.4. | Supported file formats (movie clips): DICOM, AVI, JPEG, MPEG-4 | compliance | 4.4. | Supported file formats (movie clips): DICOM, AVI, JPEG | compliance |
| 5.1. | VGA: | compliance | 5.1. | Clause 5.1. to be deleted |
| 6.6. | Linear sensor; frequency range not less than | 4.5 - 13.5 MHz | 6.6. | Linear sensor; frequency range not less than | 4.5 - 12.0 MHz |
| 6.9. | Microconvex intracavitary sensor; frequency range not less than | 2.6-12.8 MHz | 6.9. | Microconvex intracavitary sensor; frequency range not less than | 4.0-9.0 MHz |
| 6.10. | The size of the working surface of the aperture is not less than | 11 mm | 6.10. | The size of the working surface of the aperture is not less than | 9 mm |
| **Section** **VII.** | **LOT 16. 16.5. Multifunctional ultrasound scanner (sensors: convex, linear, sector phased for adults, sector phased for children; advanced software package for cardiovascular examinations).** |
| 1.9. | Maximum frame rate not less than: | 1500 fps | 1.9. | Maximum frame rate not less than: | 1000 fps |
| 1.11.3. | Blood flow imaging mode in B-mode with the ability to adjust the mapping power: | compliance | 1.11.3. | Blood flow imaging mode in B-mode with the ability to adjust the mapping power or other technology to improve blood flow imaging : | compliance |
| 1.17.2. | S video: | compliance | 1.17.2. | Clause 1.17.2. to be deleted |
| 1.18.5.1. | Frequency range not less than: | 2.5 - 5.0 MHz | 1.18.5.1. | Frequency range not less than: | 2.0 - 4.0 MHz |
| 1.18.5.2. | The presence of a biopsy nozzle | availability | 1.18.5.2. | Clause 1.18.5.2. to be deleted |
| 7.1. | The equipment must be installed, tested and put into operation by the supplier at the workplace (Republican Specialized Scientific and Practical Medical Center for Cardiology). | 7.1. | Equipment must be installed, tested and commissioned by the supplier's specialist at each job site. |
| **Section** **VII.** | **LOT 16. 16.6. Puncture set for fine-needle and Core-biopsy.** |
| 1.1. | Automatic cutting biopsy gun, sterilizable | 4 pcs | 1.1. | Automatic cutting biopsy gun, sterilizable | 2 pcs |
| 1.3. | Storage case for biopsy gun storage | 4 pcs | 1.3. | Storage case for biopsy gun storage | 2 pcs |
| **Section** **VII.** | **LOT 17. 17.1. Extracorporeal shockwave lithotripsy machine.** |
| 2.15. | Pulse duration | from 1 nanosecond to over 500 milliseconds | 2.15. | Pulse duration | from 1 nanosecond to over 1sec. |
| 3.2.4. | Tube voltage in the range not less than: | 40-100 sq. | 3.2.4. | Tube voltage in the range not less than: | 40-100 kW. |
| 5.6. | Total length not less than: | approx. 180 cm | 5.6. | Total length not less than: | 180 cm |
| 5.7. | Table panel width (without side rails) not less than: | specify | 5.7. | Table panel width (without side rails) not less than: | 550 mm |
| 5.8. | Height adjustment in the range not less than: | specify | 5.8. | Height adjustment in the range not less than: | 820 – 1000 mm |
| 6.11. | Add clause |  | 6.11. | Irrigation tank:  | 2 pcs |
| **Section** **VII.** |  **LOT 17. 17.2. Low-intensity shockwave therapy device (electromagnetic principle).** |
| 1.5. | Energy Flux Density (ED) | at least 0.01—0.50 mJ/mm2 | 1.5. | Energy Flux Density (ED) | in the range of 0.01—0.50 mJ/mm2 |
| 3.9. | Height adjustable penis holder | availability | 3.9. | Clause 3.9. to be deleted |
| **Section** **VII.** | **LOT 18. 18.2. Patient air-warming unit.** |
| 3.5. | Cardiac Surgery Blanket, Adult: | 5 pcs. | 3.5. | Clause 3.5. to be deleted |
| 3.6. | Blanket for cardiac surgery, for children: | 5 pcs. | 3.6. | Clause 3.6. to be deleted |
| **Section** **VII.** | **LOT 20. 20.1. Laboratory water bath.** |
| 7.1. | Warranty period from the date of commissioning: | 7.1. | Warranty period from the date of commissioning:  | 24 months |
| **Section** **VII.** | **LOT 20. 20.6. Binocular microscope, laboratory.** |
| 1.21. | Built-in halogen illuminator or LED (at least 6 V, 20 W): | 1.21. | Built-in halogen illuminator (at least 6 V, 20 W) or LED: |
| **Section** **VII.** | **LOT 24. 24.3. Mobile bedside cabinet.** |
| 1.8. | additional equipment, such as a basket for shoes and drip stand | 1.8. | Clause 1.8. to be deleted |
| **Section** **VII.** | **Lot 24 Item 24.4 Table for operating instruments (large)** |
| 1.2. | AISI 304 stainless steel tubular legs | 1.2. | Legs made of AISI 304 tubular stainless steel or similar material |
| 1.3. | AISI 304 stainless steel horizontal bars | 1.3. | Horizontal bars made of AISI 304 stainless steel or similar material |
| 1.4. | Two shelves made of AISI 304 stainless steel sheet | 1.4. | Two shelves made of AISI 304 stainless steel sheet or similar material |
| **Section** **VII.** | **LOT 25. 25. 1. Ambulance car.** |
| 1.5. | Warranty:  | 24 months or 50,000 km | 1.5. | Warranty period:  | 24 months or 50,000 km (whichever comes first). |
| **Section** **VII.** | **LOT 25. 25.2. Reanimobile.** |
| 1.9. | Guarantee | 1.9. | Warranty period:  | 24 months or 50,000 km (whichever comes first). |
| 1.10. | Three years or 50,000 km (whichever comes first). | 1.10. | Clause 1.10. to be deleted |

BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY OFFICIAL LETTER TO THE EMAIL ADDRESS BELOW:

**Project Implementation Unit (PIU) "Equipping urological and hemodialysis medical facilities
in the Republic of Uzbekistan" under the Ministry of Health
of the Republic of Uzbekistan**

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