**العطاء ممول بموجب المنحة الرابعة المخصصة من الصندوق الكويتي للتنمية الاقتصادية العربية للاسهام في خطط الاستجابة لأزمة اللاجئين السوريين في الدول المستضيفة**

**الموضوع: المواصفات الفنية لقسم العمليات**

**Technical Specifications for *4K Tower***

**Qty 4 units**

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| **No.** | **Technical Specifications** | **Min KAUH Requirement** |
| 1 | Manufacturer | Please specify manufacturer and country of origin |
| 2 | Model Number | Please specify model number of the offered equipment |
| 3 | Safety Standard | FDA approval or CE marking |
| 4 | Camera head with controller QTY (2) | * Three chip Ultra HD Camera (3CCD or 3CMOS).
* Camera cable: Included with enough length.
* Automatic white balance.
* Zoom option is preferable.
* Sterilization by Plasma or steam.
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| 5 | Light source unit with fiber optic QTY (1) | LED cold light* Light intensity adjustable from 0% to 100%.
* Color temperature (min. 5500K).
* Fiber optic cable 4.8mm, 3.5mm or equivalent QTY (5).
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| 6 | TV Monitor QTY (2) | * Medical grade not less than 31".
* Resolution 4k resolution.
* Brightness and contrast control.
* 220 V / 50 Hz.
* System interface ( included)
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| 7 | Insufflators QTY (1) | * Max 50L/min.
* Insuflator tubing’s200cm.
* Luer-lock connector.
* Insuflation needle.
* Hose and cylinder pin type included.
* Gas type : CO2.
* Digital setting of gas flow and pressure.
* Safety feature for over pressure.
* Pre heat for gas to body temperature.
* Bottle pressure indication.
* 220 V / 50 Hz.
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| 8 | Endoscopy trolley QTY (1) | * Original Mobile on 4 anti static wheels with brake.
* Minimum of 4 fixed shelves.
* Power box for min. of 10 MK plugs.
* Mild steel construction.
* Two devices fit next to each other on each shelf.
* Maximum load capacity: to be mentioned.
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| 9 |  Telescopes Total Quantity For All Towers  | - Straight forward telescope 0° ,   Diameter   approx. 5 mm. working  length approx. 300 mm. fiber optic light transmission autoclavableQty (5) |
|  |  | - Straight forward telescope 0° , Diameter   10 mm approx. Qty (10) |
|  |  | - Straight oblique telescope , 30° , Diameter   5 mm Qty (5) |
|  |  | - Straight oblique telescope , 30° , Diameter   10 mm Qty (15) - Straight oblique telescope , 0° , Diameter   4 mm 18cm Qty (10)- Straight oblique telescope , 30° , Diameter   4 mm 18cm Qty (4) - StraightNasoendoscope, 45° , Diameter   4 mm 18cm Qty ( 3) -StraightNasoendoscope, 70° , Diameter   4 mm 18cm Qty (2)  |
| 10 | Documentation | * Record video and still image in ultra hd
* Full patient data entry
* Data storage during operation
* Documentation archiving system
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| 11 | General surgery application (ESU) QTY (4) | * The unit should include mono-polar and bipolar modes, pure cut, blend cut, coagulate and spray coagulation.
* Smart generator should be able to monitor changes in tissue impedance continuously and adjusts power.
* The unit should have patient plate monitoring facility and should give audiovisual alarm and deactivate output if contact between patient and patient plate is not proper to eliminate the risk of patient burns.
* Operating panel with touch buttons to select modes and adjust power levels and should be hygienic and easy to clean.
* Digital Display of power level and error codes.
* All types of cutting and coagulating handles, tips and forceps for mono-polar and bipolar modes for major surgeries must be included in offer.
* Original Mobile trolley**.**
* It should follow international safety standard and requirement with CE or FDA approval.
* The unit should not have RF Leakage current more than 150mA.
* Operation and service manuals should be supplied.
* Maximum CUT output power: 400 watt.
* Maximum Coagulation outputpower: 120 watt.
* Mono-polar/Bipolar output frequency: ≤ 470 KHz.
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