**TENDER REF. NO.: KK/194/2026/HTD**

# MINISTRY OF HEALTH
## NEGARA BRUNEI DARUSSALAM

**PROVISIONAL OF SURGICAL ENDOSCOPY SYSTEM FOR OPERATING THEATRE, RIPAS HOSPITAL AND SSB HOSPITAL**

**TENDER FEE : $500.00**

**RECEIPT NO. :**

**CLOSING DATE : ON TUESDAY, 15th September 2026**

**TIME : 2.00 PM**

**FOA :**

**THE CHAIRMAN**
**MINI TENDER BOARD, TENDER BOX**
**GROUND FLOOR, MINISTRY OF HEALTH**
**COMMONWEALTH DRIVE**
**BANDAR SERI BEGAWAN BB3910**
**NEGARA BRUNEI DARUSSALAM**

[CLUSTERING]

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**TERMS AND CONDITIONS**
**The equipment supplied must be newly manufactured, unused, and in its original, sealed packaging. The equipment must not be previously owned, refurbished, or reconditioned in any form.**

**SECTION 2**

**SPECIFICATIONS AND REQUIREMENTS**

**TENDER REFERENCE NO.: KK/194/2026/HTD**

**INVITATION TO TENDER**
**PROVISIONAL OF SURGICAL ENDOSCOPY SYSTEM FOR OPERATING THEATRE, RIPAS HOSPITAL AND SSB HOSPITAL**

**SCOPE OF WORK AND SUMMARY OF PRICES**

1. This tender is for the Supply, Delivery, Installation, Testing, Commissioning and Warranty Maintenance of four (4) units of Surgical Endoscopy System and One-off purchase of videoscopes either by
   i. **Option A - Outright Purchase or**
   ii. **Option B - Leasing.**
2. **For Option A**- Outright Purchase, the tender requires
   - Provision of a standard comprehensive warranty period of two (2) years for both Surgical Endoscopy System and Videoscopes and
   - Propose additional three (3) years extended comprehensive warranty for the Surgical Endoscopy System only.
3. **For Option B**- Leasing, the tender requires
   - The Surgical Endoscopy System to be leased for a period of five (5) years inclusive of the comprehensive maintenance and spare parts
   - The Videoscopes to be purchased outright with two (2) years warranty

| Description | Option A- Outright | Option B- Leasing |
|---|---|---|
| **Surgical Endoscopy System** | Outright + 2 years warranty | Leasing 5 years |
| | 3 years extended comprehensive warranty | |
| **Videoscopes + Scopes** | Outright + 2 years warranty | Outright + 2 years warranty |

**4. Appendix A** - Tenderer must also include the cost of each listed videoscopes with price remain valid and fixed for five (5) years from date of awarded.

The Government reserves the right to purchase any of the listed Videoscopes during the contract period at the quoted price, as and when required.

| DESCRIPTION | QTY | OPTION A OUTRIGHT PURCHASE | OPTION B LEASING FOR 5 YEARS |
|---|---|---|---|
| **SURGICAL ENDOSCOPY WITH NIR/ICG FLUORESCENCE IMAGING (ORL)** | **1** | **TOTAL PRICE** | **QUARTERLY LEASE PRICE** |
| **SURGICAL ENDOSCOPY SYSTEM (GENERAL SURGERY)** | **2** | **TOTAL PRICE** | **YEARLY LEASE PRICE** |
| **SURGICAL ENDOSCOPY SYSTEM (UROLOGY)** | **1** | **TOTAL PRICE** | |
| **ONE OFF PURCHASE OF VIDEOSCOPES + SCOPES** | **1 LOT** | **PRICE FOR ONE OFF PURCHASE OF VIDEOSCOPES** | |
| **TOTAL** | | **TOTAL PRICE** | **TOTAL LEASING PRICE + ONE-OFF VIDEOSCOPES** |

| SUMMARY OF SYSTEM CONFIGURATION REQUIREMENT | | | | | | |
|---|---|---|---|---|---|---|
| | **Surgical Endoscopy System, ICG Capable** | **Surgical Endoscopy System, Standard** | **Autoclavable camera head** | **Insufflator** | **Fluid Management System** | **Additional Monitor complete with Cart/Trolley** |
| **General Surgery (RIPASH)** | **1** | **-** | **3** | **1** | **1** | **1** |
| **General Surgery (SSBH)** | **1** | **-** | **1** | **1** | **1** | **-** |
| **Orthorhinology (ORL)** | **1** | **-** | **1** | **-** | **-** | **-** |
| **Urology** | **-** | **1** | **1** | **1** | **2** | **1** |

| SECTION 1 – USER REQUIREMENTS | |
|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | |
| **REF. NO.** | **DESCRIPTION** |
| 1.1 | Three (3) units of Surgical Endoscopy System with integrated Near Infrared (NIR) / Indocyanine Green (ICG) Fluorescence Imaging capability for use of General Surgery and Otorhinolaryngology department. |
| 1.2 | The system shall be designed for use in an operating theatre environment **and** suitable for continuous clinical operation |
| 1.3 | **SYSTEM CONFIGURATION** |
| 1.3.1 | **Each Surgical Endoscopy system shall consist of, but not limited to:**<br>**1. Camera control unit (CCU)**<br>**2. Autoclavable camera head with NIR/ICG Fluorescence imaging**<br>**3. High-performance light source**<br>**4. Medical-grade monitor**<br>**5. Image/video recording system**<br>6. **Mobile endoscopy trolley cart** |
| 1.3.2 | **Additional requirements:**<br>**1. Two (2) unit of Camera head (For RIPASH GS)**<br>**2. Two (2) units of Insufflator (1 Unit for RIPASH GS and 1 unit for SSBH GS)**<br>**3. Two (2) units of Fluid Management system (For RIPAS GS and SSBH GS)**<br>**4. One (1) unit of Display monitor complete with individual cart/trolley (For RIPASH GS)** |
| 1.4 | **CAMERA CONTROL UNIT** |
| 1.4.1 | Advanced image processing unit must support both Full HD and 4K resolution |
| 1.4.2 | The system shall be for use with camera head, rigid and flexible endoscopes |
| 1.4.3 | Real-time image enhancement technologies including:<br>▪ Brightness optimization<br>▪ Colour contrast enhancement<br>▪ Tissue structure and vascular enhancement modes |
| 1.4.4 | Low-latency video signal transmission suitable for real-time surgical procedures |
| 1.4.5 | USB interface available for Data export and software updates |
| 1.4.6 | Shall allow automatic device recognition and coordinated control to improve workflow efficiency |
| 1.4.7 | Shall enable interconnection and synchronized operation of:<br>▪ Camera control units<br>▪ Light sources<br>▪ Insufflators<br>▪ Documentation systems |
| 1.5 | **CAMERA HEAD** |
| 1.5.1 | Camera head shall be **4K UHD and suitable for NIR/ICG fluorescence imaging** |

| SECTION 1 – USER REQUIREMENTS | |
|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | |
| 1.5.2 | The camera head shall be compatible with both standard rigid endoscopes and NIR/ICG-capable endoscopes. |
| 1.5.3 | Ergonomic, lightweight design suitable for prolonged operative procedures |
| 1.5.4 | Programmable camera head buttons for:<br>▪ Image capture<br>▪ Video recording<br>▪ Digital zoom<br>▪ White balance |
| 1.5.5 | Camera head shall be:<br>▪ Soak able<br>▪ Sterilizable with Hydrogen Peroxide<br>▪ Disinfected with High-Level Disinfection |
| 1.6 | **FLUORESCENCE IMAGING (NIR / ICG)** |
| 1.6.1 | The system shall support near-infrared fluorescence imaging (e.g. ICG) |
| 1.6.2 | Fluorescence mode shall allow visualization of:<br>▪ Vascular perfusion<br>▪ Anatomical structures<br>▪ Tissue differentiation |
| 1.6.3 | Fluorescence functionality shall be integrated seamlessly into the main system without requiring a separate tower. |
| 1.7 | **LIGHT SOURCE** |
| 1.7.1 | For systems equipped with fluorescence imaging, the light source shall be **specifically designed for NIR/ICG excitation**, enabling seamless switching between white light and fluorescence modes without the use of a separate tower**.** |
| 1.7.2 | The system shall be equipped with a high-intensity LED light source or equivalent. |
| 1.7.3 | The light source shall provide:<br>▪ Uniform illumination<br>▪ Stable color temperature<br>▪ Automatic and manual brightness control |
| 1.7.4 | LED lifespan shall be long-life and not require frequent bulb replacement. |
| 1.7.5 | Tenderer shall supply **two additional light cables for RIPAS Hospital**, in addition to the standard light cable supplied with the surgical endoscopy system |
| 1.8 | **ENDOSCOPE COMPATIBILITY** |
| 1.8.1 | The system shall be compatible with:<br>▪ **Rigid endoscopes (Standard and NIR/ICG Compatible)**<br>▪ **Flexible endoscopes** |
| 1.8.2 | The system shall support the following specialties:<br>▪ **Urology:** cystoscopy, ureteroscopy, resectoscopy, nephroscopy<br>▪ **ENT:** sinus endoscopy, laryngoscopy, otology<br>▪ **General Surgery**: laparoscopy and related procedures |
| 1.8.3 | Optical adapters shall be available to support multiple scope diameters and viewing angles with the supply of at least the following: |

| SECTION 1 – USER REQUIREMENTS | |
|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | |
| | ▪ One (1) unit of compatible light cable for use with <5.0mm telescopes or equivalent<br>▪ One (1) unit of compatible light cable for use with >5.0mm telescopes or equivalent |
| 1.9 | **DOCUMENTATION SYSTEM & CONNECTIVITY** |
| 1.9.1 | 12.5” touchscreen control screen or equivalent |
| 1.9.2 | The system shall provide multiple digital video outputs such as:<br>▪ HDMI<br>▪ DVI and/or SDI |
| 1.9.3 | The system shall support real-time video recording and still image capture |
| 1.9.4 | Recorded data shall be exportable via<br>▪ USB storage<br>▪ Network connection (where applicable) |
| 1.9.5 | **The system must be DICOM and PACS ready and enabled for future integration with Hospital Information System (HIS) where required.** |
| 1.10 | **DISPLAY MONITOR** |
| 1.10.1 | The system shall include a **medical-grade flat panel monitor**. |
| 1.10.2 | Monitor size shall be **minimum 32 inches**. |
| 1.10.3 | For the 4K fluorescence-capable system, the monitor shall support **4K resolution** to allow full utilization of the imaging system. |
| 1.10.4 | Has multiple variety of video input port including HDMI, Display port, SDI |
| 1.10.5 | Capable of dual screen display or Picture-in-Picture feature |
| 1.10.6 | Inclusive of mounting on top of the cart on an adjustable swivel arm (height and side) |
| 1.10.7 | For the additional external display monitors, the tenderer shall supply each unit complete with a dedicated cart/trolley equipped with lockable castor wheels, suitable for use in the operating theatre |
| 1.11 | **INSUFFLATOR** |
| 1.11.1 | High flow insufflators suitable for laparoscopic and minimally invasive surgical procedures. |
| 1.11.2 | The insufflator shall provide **precise pressure-controlled and flow-controlled insufflation**, with adjustable intra-cavity pressure up to **at least 30 mmHg** and high-flow capability suitable for advanced laparoscopy. |
| 1.11.3 | 7” touchscreen display or equivalent |
| 1.11.4 | High flow mode and paediatric mode |
| 1.11.5 | Hose heating capability |

| SECTION 1 – USER REQUIREMENTS | |
|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | |
| 1.11.6 | Overpressure safety warning feature |
| 1.11.7 | The system shall incorporate automatic pressure regulation, leakage compensation, and comprehensive safety alarms, including overpressure, gas supply failure, and occlusion detection. |
| 1.12 | **FLUID MANAGEMENT SYSTEM** |
| 1.12.1 | Fluid management system suitable for use during endoscopic and minimally invasive surgical procedures. |
| 1.12.2 | The system shall be a pressure-controlled irrigation pump designed to maintain stable cavity pressure and clear visualization during surgery. |
| 1.12.3 | Adjustable irrigation pressure range shall be approximately 20 mmHg to at least 300 mmHg, with continuous monitoring and digital display of set and actual pressure. |
| 1.12.4 | Equipped with overpressure protection, occlusion detection, and visual/audible alarms. |
| 1.12.5 | Supports hands-free operation via footswitch and is compatible with standard endoscopic instruments. |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | |
|---|---|
| **REF. NO.** | **DESCRIPTION** |
| 2.1 | One unit of Standard Surgical Endoscopy System for urology of RIPAS Hospital. System shall be designed for Photodynamic Diagnosis (PDD) / Blue Light Cystoscopy for detection and management of non-muscle invasive bladder cancer (NMIBC). |
| 2.2 | The system shall be designed for use in an **operating theatre environment** and suitable for continuous clinical operation |
| 2.3 | **SYSTEM CONFIGURATION**<br>**The standard Surgical Endoscopy system for Urology shall consist of, but not limited to:**<br>1. Camera control unit (CCU)<br>2. Autoclavable camera head<br>3. High-performance light source<br>4. Medical-grade monitor<br>5. Image/video recording system<br>6. Mobile endoscopy trolley cart<br>7. One (1) unit of Insufflator<br>8. Two (2) units of Fluid Management System<br>9. One (1) unit of Additional External Display monitor complete with cart/trolley |
| 2.4 | **CAMERA CONTROL UNIT** |
| 2.4.1 | Advanced image processing unit must **support both Full HD and 4K resolution** |
| 2.4.2 | Camera control unit shall support:<br>▪ White light imaging<br>▪ Blue light fluorescence imaging (PDD mode) |
| 2.4.3 | System shall allow rapid switching between white light and blue light modes during procedure. |
| 2.4.4 | The system shall be for use with camera head, rigid and flexible endoscopes |
| 2.4.5 | Real-time image enhancement technologies including:<br>▪ Brightness optimization<br>▪ Colour contrast enhancement<br>▪ Tissue structure and vascular enhancement modes |
| 2.4.6 | Low-latency video signal transmission suitable for real-time surgical procedures |
| 2.4.7 | USB interface available for Data export and software updates |
| 2.4.8 | Shall allow automatic device recognition and coordinated control to improve workflow efficiency |
| 2.4.9 | Shall enable interconnection and synchronized operation of:<br>▪ Camera control units<br>▪ Light sources<br>▪ Insufflators<br>▪ Documentation systems |
| 2.5 | **CAMERA HEAD** |
| 2.5.1 | Native resolution: **4K UHD or equivalent** |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | |
|---|---|
| 2.5.2 | Camera head shall be suitable for PDD/blue light fluorescence imaging. |
| 2.5.3 | Ergonomic, lightweight design suitable for prolonged operative procedures |
| 2.5.4 | Programmable camera head buttons for:<br>▪ Image capture<br>▪ Video recording<br>▪ Digital zoom<br>▪ White balance |
| 2.5.5 | Camera head shall be:<br>▪ Soakable<br>▪ Sterilizable with Hydrogen Peroxide<br>▪ Disinfected with High-Level Disinfection |
| 2.6 | **LIGHT SOURCE** |
| 2.6.1 | The system shall be equipped with a high-intensity LED light source or equivalent. |
| 2.6.2 | System shall include dedicated light source for:<br>▪ White light imaging<br>▪ Blue light fluorescence imaging |
| 2.6.3 | The light source shall provide:<br>▪ Uniform illumination<br>▪ Stable color temperature<br>▪ Automatic and manual brightness control |
| 2.6.4 | LED lifespan shall be long-life and **not require frequent bulb replacement**. |
| 2.7 | **ENDOSCOPE COMPATIBILITY** |
| 2.7.1 | The system shall be compatible with:<br>▪ Rigid endoscopes<br>▪ Flexible Endoscopes<br>▪ Rigid PDD-compatible cystoscope telescopes |
| 2.7.2 | The system shall support **Urology procedure** which are cystoscopy, ureteroscopy, resectoscopy, nephoscopy |
| 2.7.3 | Optical adapters shall be available to support multiple scope diameters and viewing angles with the supply of at least the following:<br>▪ One (1) unit of compatible light cable for use with <5.0mm telescopes or equivalent<br>▪ One (1) unit of compatible light cable for use with >5.0mm telescopes or equivalent |
| 2.8 | **DOCUMENTATION SYSTEM & CONNECTIVITY** |
| 2.8.1 | 12.5” touchscreen control screen or equivalent |
| 2.8.2 | The system shall provide multiple digital video outputs such as:<br>▪ HDMI<br>▪ DVI and/or SDI |
| 2.8.3 | The system shall support **real-time video recording and still image capture** |
| 2.8.4 | Recorded data shall be exportable via<br>▪ USB storage<br>▪ Network connection (where applicable) |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | |
|---|---|
| 2.8.5 | **The system must be DICOM and PACS ready and enabled for future integration with Hospital Information System (HIS) where required.** |
| 2.9 | **DISPLAY MONITOR** |
| 2.9.1 | The system shall include a **medical-grade flat panel monitor**. |
| 2.9.2 | Monitor size shall be **minimum 32 inches**. |
| 2.9.3 | The monitor shall support **4K resolution or better**. |
| 2.9.4 | Has multiple variety of video input port including HDMI, Display port, SDI |
| 2.9.5 | Capable of dual screen display or Picture-in-Picture feature |
| 2.9.5 | Inclusive of mounting on top of the cart on an adjustable swivel arm (height and side) |
| 2.9.6 | For the additional external display monitors, the tenderer shall supply each unit complete with a dedicated cart/trolley equipped with lockable castor wheels, suitable for use in the operating theatre |

| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | |
|---|---|
| **REF. NO.** | **DESCRIPTION** |
| 3.1 | Standard Features |
| 3.1.1 | All scopes must be sterilizable and comes with individual sterilization and storage box. |
| 3.1.2 | **Tenderer may offer alternative brand(s) of scope, provided that the scope is fully compatible with the system offered, including the provision of all necessary compatible connectors, at no additional cost.** |
| 3.1.3 | **All scopes listed must have two (2) years comprehensive warranty.** |
| 3.2 | **Specialty: General Surgery (RIPASH), ICG compatibility required where applicable**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** |
| 3.2.1 | Three (3) units of $0^0$ telescope, 5mm diameter, Working length 290mm |
| 3.2.2 | Three (3) units of $0^0$ telescope, 10mm diameter, Working Length 310mm |
| 3.2.3 | Five (5) units of $30^0$ telescope, 3.5mm diameter, Working Length 300mm |
| 3.2.4 | One (1) set of Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector |
| 3.2.5 | One (1) unit of Mini $0^0$ laparoscope, 5mm, 3.5mm diameter working channel, working Length: 300mm |
| 3.2.6 | One (1) unit of Flexible Ureteroscope, $0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm |
| 3.2.7 | Seven (7) units of $30^0$ telescope, 5mm, working length: 290mm |
| 3.2.8 | Two (2) units of $30^0$ telescope, 5mm, working length: 430mm |
| 3.2.9 | One (1) units of $30^0$ telescope, 10mm, working length: 310mm |
| 3.2.10 | Two (2) units of $30^0$ telescope, 10mm, working length: 440mm |
| 3.2.11 | One (1) units of $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece |
| 3.3 | **Specialty: General Surgery (SSBH), ICG compatibility required where applicable**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** |
| 3.3.1 | Two (2) units of $0^0$ telescope, 5mm diameter, Working length 290mm |
| 3.3.2 | Two (2) units of $0^0$ telescope, 10mm diameter, Working Length 310mm |
| 3.3.3 | Two (2) units of $30^0$ telescope, 3.5mm diameter, Working Length 300mm |

| | |
|---|---|
| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | |
| 3.3.4 | One (1) set of Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector |
| 3.3.5 | One (1) unit of Flexible Ureteroscope, $0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm |
| 3.3.6 | Two (2) units of $30^0$ telescope, 5mm, working length: 290mm |
| 3.3.7 | One (1) unit of $30^0$ telescope, 5mm, working length: 430mm |
| 3.3.8 | One (1) unit of $30^0$ telescope, 10mm, working length: 440mm |
| 3.3.9 | One (1) units of $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece |
| 3.4 | **Specialty: ORL**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** |
| 3.4.1 | One (1) unit of ICG Capable, $0^0$ telescope, 4mm, 18cm |
| 3.4.2 | One (1) unit of ICG Capable, $30^0$ telescope, 4mm, 18cm |
| 3.4.3 | One (1) unit of ICG Capable, $45^0$ telescope, 4mm, 18cm |
| 3.4.4 | One (1) unit of Endocameleon scope 15° to $90^0$, 4mm, 18cm |
| 3.4.5 | Four (4) units of $0^0$ telescope, 3mm, 15cm |
| 3.4.6 | Two (2) units of $0^0$ telescope, 2.7mm, 18cm |
| 3.4.7 | Two (2) units of $0^0$ telescope, 2.9mm, 36cm |
| 3.4.8 | Two (2) units of $0^0$ telescope, 4mm, 18cm |
| 3.4.9 | One (1) unit of $0^0$ telescope, 4mm, 30cm |
| 3.4.10 | Two (2) units of $30^0$ telescope, 4mm, 18cm |
| 3.4.11 | Two (2) units of $45^0$ telescope, 4mm, 18cm |
| 3.5 | **Specialty: Urology**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** |
| 3.5.1 | **Rigid Cysto-Urethroscopy Set**, PDD-Compatible of the following approximate sizes: |
| 3.5.1.1 | Two (2) units of 0° telescope, 4mm, 29cm |
| 3.5.1.2 | One (1) unit of 12° telescope, 4mm, 30cm |

| | |
|---|---|
| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | |
| 3.5.1.3 | Three (3) units of 30° telescope, 4mm, 30cm |
| 3.5.1.4 | Two (2) units of 70° telescope, 4mm, 30cm |
| 3.5.1.5 | Complete with the following but not limited to:<br>- Four (4) sets of Cystoscope Sheath, 22 Fr<br>- One (1) set of Cystoscope Sheath, 20 Fr<br>- One (1) set of Cystosope Sheath, 17 Fr<br>- Four (4) sets of Telescope Bridge with 2 Lockable channels<br>- Five (5) sets of Catheter Deflecting Mechanism, with ALBARRAN lever, with 2 lockable channels<br>- Five (5) sets of Foreign Body Forceps, 3 Fr, Flexible, Double action jaws<br>- One (1) set Biopsy Forceps, 3 Fr, Flexible<br>- One (1) set Scissors, 5 Fr, Flexible<br>- Three (3) sets of Button electrode, Unipolar, 3Fr<br>- Luer-Lock Tube connector |
| 3.5.2 | **Semi Rigid Ureter Renoscope set**, of the following approximate sizes: |
| 3.5.2.1 | Three (3) units of 7 Fr distal-tip, 8Fr sheath (1-step 12 Fr), 6°, 43cm, 5Fr working channel |
| 3.5.2.2 | One (1) unit of 8 Fr distal-tip, 9.5Fr sheath (1-step 12 Fr), 6°, 43cm, 6 Fr working channel |
| 3.5.3 | Two (2) units of $30^0$ telescope, 5mm, 29cm |
| 3.5.4 | Two (2) units of $30^0$ telescope, 10mm, 31cm |
| 3.5.5 | Three (3) sets of **Minimally Invasive PCNL Nephroscope Set**<br>▪ Open-system, vacuum cleaner effect, pressure-controlled<br>▪ With angled eyepiece, 12 Fr, 12°, length 22cm, 6.7Fr working channel<br>▪ Complete with accessories of various sizes for operating sheath, one step dilator, application for sealing and grasping forceps |
| 3.5.6 | Two (2) sets of **Flexible Video Cystoscope set** |
| 3.6 | Tenderer to submit the cost of each scopes listed above in Appendix A. These prices will be a reference price and must be valid to be use the whole 5 years warranty period of Outright (with additional 3 years System Comprehensive Maintenance Service Post Warranty) and Leasing for the purpose of additional or replacement purchases when required on a separate request. |

| **REF. NO.** | **DESCRIPTION** |
|---|---|
| **4** | **CONSUMABLES AND ACCESSORIES** |
| 4.1 | **Inclusive of all necessary accessories for operation, cleaning and maintenance.** |
| 4.2 | Each camera head system shall be supplied with a camera head container suitable for sterilization and storage |

<table>
<tr><th>REF. NO.</th><th>DESCRIPTION</th></tr>
<tr><td>4.3</td><td>Each videoscope shall be supplied with individual sterilization and storage box</td></tr>
<tr><td colspan="2">* In your quotation/tender document, please breakdown/itemized the price for each accessories/ consumables</td></tr>
<tr><td>5</td><td>END USER AND TECHNICAL TRAINING</td></tr>
<tr><td>5.1</td><td>Conduct user training to the all-end users by an application specialist or competent local engineer including but not limited to:<br>▪ Basic user operation, user troubleshooting and user maintenance<br>▪ Provide Operating manual (Hardcopy and/or Softcopy)</td></tr>
<tr><td>5.1.1</td><td>Tenderer must prepare a training attendance or proof of training done to end user during commissioning and the refresher course (6) months after commissioning.</td></tr>
<tr><td>5.2</td><td>Introductory Technical Training to Biomedical Engineers and Technicians at BME Office by competent Tenderer’s Engineer/Technicians that includes but not limited to:<br>▪ Troubleshooting and basic corrective maintenance<br>▪ Handling and basic inspection maintenance<br>*(Two sessions/groups if required)</td></tr>
<tr><td>6</td><td>WARRANTY</td></tr>
<tr><td>6.1</td><td>The Tenderer shall provide a comprehensive warranty period as below where applicable,
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<tr><th>Description</th><th>Option A - Outright</th><th>Option B - Leasing</th></tr>
<tr><td rowspan="2">Surgical Endoscopy System</td><td>Outright + 2 years warranty</td><td rowspan="2">Leasing 5 years</td></tr>
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<tr><td>Videoscopes + Scopes</td><td>Outright + 2 years warranty</td><td>Outright + 2 years warranty</td></tr>
</table></td></tr>
<tr><td>6.2</td><td>Tenderers to ACKNOWLEDGE the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of <u>two (2) years for the outright purchase option</u> and <u>five (5) years for the leasing option</u>.<br>This includes but not limited to:<br>▪ Scope of Warranty<br>▪ One-time Planned Preventive Maintenance Per Year during warranty<br>▪ Comprehensive Corrective Maintenance of Main Unit</td></tr>
<tr><td>7</td><td>PRODUCT DEMONSTRATION (UPON REQUEST)</td></tr>
<tr><td>7.1</td><td>If requested by the Government, vendor shall provide a product demonstration as part of the evaluation process<br>The tenderer shall provide either of the following demonstration modes:<br>▪ Physical Demonstration (In-Person):<br>A complete working unit must be brought to the designated demonstration site as specified by the procuring entity. The demonstration shall be conducted by qualified personnel from the supplier.<br>▪ Online Demonstration (Virtual):<br>The demonstration may be conducted via a live video conferencing platform (e.g., Zoom, MS Teams). The session must include:<br>✓ Live operation of the actual product.<br>✓ Real-time interaction to address questions or perform requested functions.<br>✓ High-definition video and clear audio for full visibility and understanding.</td></tr>
</table>

<table>
<tr><th colspan="3">SECTION 2 – PRICE PROPOSAL (OPTION A)</th></tr>
<tr><td rowspan="4">OPTION A<br><u>OUTRIGHT PURCHASE</u></td><td colspan="2">▪ Tenderer to offer the system on an outright purchase basis, with a single full payment made after delivery, installation, commissioning, and user training are completed.<br>▪ Inclusive of a standard two (2) years comprehensive warranty for both system and scopes covering:<br>✓ All parts and labour<br>✓ On-site after-sales service support<br>✓ Software updates and upgrades<br>✓ One-time Preventive Maintenance per year.<br>▪ Tenderer to also offer the cost of an additional three (3) years extended comprehensive warranty with the same coverage after the initial 2 years (5 years total warranty) for system only.<br>▪ Warranty coverage is as specified in the Warranty Undertaking Form.<br>▪ Payments for the extended warranty will be made on a Per Preventive Maintenance (PPM) basis after initial 2 years warranty ended.<br>▪ The tenderer shall provide a detailed price breakdown for the consumables and accessories in your offer quotation.</td></tr>
<tr><td>PRICE WITH 2 YEARS COMPREHENSIVE WARRANTY</td><td rowspan="2">PRICE OF ADDITIONAL 3 YEARS COMPREHENSIVE WARRANTY FOR SYSTEM ONLY</td></tr>
<tr><td>ONE OFF PURCHASES PRICE OF VIDEOSCOPES</td></tr>
<tr><td colspan="2">TOTAL OUTRIGHT PRICE FOR 5 YEARS WARRANTY</td></tr>
</table>

<table>
<tr><th colspan="4">SECTION 2 – PRICE PROPOSAL (OPTION B)</th></tr>
<tr><td rowspan="3">OPTION B<br><u>LEASING PRICE FOR 5 YEARS</u></td><td colspan="3">▪ Tenderer to offer the system on a 5-years leasing basis, with quarterly payments over the period of 5 years<br>▪ The payment for one off purchases of scope can be claim after the delivery.<br>▪ The tenderer shall provide a detailed price breakdown for the consumables and accessories<br>▪ Ownership remains with the tenderer during the lease except the one-time purchase of scopes.<br>▪ Tenderer is responsible for full maintenance and support throughout the lease, as per the Warranty Undertaking Form.<br>▪ Payment terms;<br>✓ First lease payment starts after 3 months of delivery, installation, commissioning, and user training.<br>✓ Final lease payment is shall be made in the last month of the 5th year.<br>At the end of the lease period, MOH has the option to purchase the leased system, subject to equipment condition and approval by the relevant committee. If MOH decides not to purchase the system, the system will be returned to the tenderer.</td></tr>
<tr><td>i. ONE OFF PURCHASE PRICE FOR VIDEOSCOPES:</td><td></td><td rowspan="2">TOTAL PRICE (i +ii)</td></tr>
<tr><td>ii. TOTAL LEASE PRICE FOR 5 YEARS:</td><td>QUARTERLY LEASE PRICE:<br>LEASE PRICE PER YEAR:</td></tr>
</table>

| SECTION 3 - PROCUMENT AND TECHNICAL SPECIFICATION |
| --- |
| BRAND: |
| COUNTRY OF ORIGIN: |
| YEAR INTRODUCED TO MARKET: |
| PRICE VALIDITY:<br>[AT LEAST ONE (1) YEAR PRICE VALIDTY] |
| DELIVERY TIME: |
| AUTHORIZED DISTRIBUTOR:<br>(AUTHORIZED DISTRIBUTOR LETTER ATTACHED) |
| DETAILED BROCHURE INCLUDED |
| USER AND SERVICE MANUALS: |
| MAINS POWER SUPPLY: |
| POWER ADAPTER/CHARGER OUTPUT RATING: |
| NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN)<br><br>Please provide training or certification for locals who is trained/certified |
| DIMENSIONS AND WEIGHT OF MAIN UNIT: |
| EQUIPMENT WHOLE LIFE TIME SUPPORT: |

## SECTION 4 – WARRANTY UNDERTAKING FORM (PAGE 1)

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under Warranty for either two (2) years for Outright Purchase or Leasing period of Five (5) years, must cover the scope of comprehensive warranty at no additional cost:

- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- Inclusive of Comprehensive Maintenance Service (see below)
- **Exchange warranty**; Providing replacement units or OEM parts for:

  A. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first six (6) months of use
  B. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  C. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.

**COMPREHENSIVE MAINTENANCE SERVICE**

Tenderer must provide a comprehensive maintenance during the warranty period. The scope for **Comprehensive Maintenance Service** consists of:

**A. Inspection Maintenance (IM)**
**B. Corrective Maintenance (CM) and**
**C. Planned Preventive maintenance (PPM)**
**D. Breakdown call**

**EXCLUSION FROM WARRANTY**

MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters

Tenderer may also attach a list of terms to be excluded from the warranty for MOH consideration and notification

## SECTION 4 – WARRANTY UNDERTAKING FORM (PAGE 2)

**A. Inspection Maintenance (IM)**

- Must be conducted every six (6) months starting from commissioning date.
- Issuance of IM Report to End User and Biomedical Engineering Unit of respective Facilities (BME)
- Physical hardware checks on main unit/system and all supplied accessories
- System, Software and Application check-up – Update to latest version when available
- Performance and Functional testing
- Servicing/Cleaning of dust

**B. Corrective Maintenance (CM):**

- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported including any cost of breakdown repairs.
- Repair and replacement of parts with new, quality, and compatible parts within thirty (30) days after receipt of reported problem by BME. (Valid also for all scopes for the duration of the first 2 years only)
- Post repair tests with reports to ensure Electrical Safety Test, Performance Test and Functional Test is conducted.

**C. Planned Preventive Maintenance (PPM):**

- **One time yearly Planned Preventive Maintenance (PPM)** according to Manufacturer's Preventive Maintenance Guideline, including replacements of PM Kits, any relevant parts to prolong equipment lifespan AND **one-time LED light replacement during final 5$^{th}$ year, unless required earlier.**
- Provide Maintenance Due Date stickers after each PPM or booklet for easy monitoring

**D. Breakdown Call**

- Onsite response to assess and rectify any breakdown call within a maximum of two (2) hours after receipt of reported problem by BME Unit preferably during office hours, else after office hours or public holidays.
  - ✓ Deduction demerit shall be imposed if the Company fails to provide onsite response within the time above and the deduction amount shall be based on the frequency of event times certain rate to be formulated later.
- Downtime: Not more than 24 hours after receipt of reported problem by BME unit
- If Downtime is expected to be more than 24 hours, Tenderer must notify formally to BME unit through email or letter immediately indicating the reason of delay with estimation of:
  A. Estimated time of parts to arrive and
  B. Expected no of days for repair completion
- **The downtime permitted after the first 24 hours with notification, should not be more than 72 working hours or else, a penalty fee of BND$50 per per day per unit will be charge after the 72th downtime hour.**

| APPENDIX A<br>If the available space is not enough, please attach Appendix A according to this template | |
|---|---|
| # | **SCOPE TYPE** |
| 1 | $0^0$ telescope, 5mm diameter, Working length 290mm |
| 2 | $0^0$ telescope, 10mm diameter, Working Length 310mm |
| 3 | $30^0$ telescope, 3.5mm diameter, Working Length 300mm |
| 4 | Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector |
| 5 | Mini $0^0$ laparoscope, 5mm, 3.5mm diameter working channel, working Length: 300mm |
| 6 | Flexible Ureteroscope<br>$0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm |
| 7 | $30^0$ telescope, 5mm, working length: 290mm |
| 8 | $30^0$ telescope, 5mm, working length: 430mm |
| 9 | $30^0$ telescope, 10mm, working length: 310mm |
| 10 | $30^0$ telescope, 10mm, working length: 440mm |
| 11 | $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece |
| 12 | ICG Capable, $0^0$ telescope, 4mm, 18cm |
| 13 | ICG Capable, $30^0$ telescope, 4mm, 18cm |
| 14 | ICG Capable, $45^0$ telescope, 4mm, 18cm |
| 15 | Endocameleon scope 15° to $90^0$, 4mm, 18cm |
| 16 | $0^0$ telescope, 3mm, 15cm |
| 17 | $0^0$ telescope, 2.7mm, 18cm |
| 18 | $0^0$ telescope, 2.9mm, 36cm |
| 19 | $0^0$ telescope, 4mm, 18cm |
| 20 | $0^0$ telescope, 4mm, 30cm |
| 21 | $30^0$ telescope, 4mm, 18cm |

| APPENDIX A<br>If the available space is not enough, please attach Appendix A according to this template | |
|---|---|
| 22 | $45^0$ telescope, 4mm, 18cm |
| 23 | **Rigid Cysto-Urethroscopy,** PDD-compatible 0° telescope, 4mm, 29cm |
| 24 | **Rigid Cysto-Urethroscopy**, PDD-compatible 12° telescope, 4mm, 30cm |
| 25 | **Rigid Cysto-Urethroscopy**, PDD-compatible 30° telescope, 4mm, 30cm |
| 26 | **Rigid Cysto-Urethroscopy**, PDD-compatible 70° telescope, 4mm, 30cm |
| 27 | **Rigid Cysto-Urethroscopy Consumables,**<br>1. Cystoscope Sheath, 22 Fr<br>2. Cystoscope Sheath, 20 Fr<br>3. Cystoscope Sheath, 17 Fr<br>4. Telescope Bridge with 2 Lockable channels<br>5. Catheter Deflecting Mechanism, with ALBARRAN lever, with 2 lockable channels<br>6. Foreign Body Forceps, 3 Fr, Flexible, Double action jaws<br>7. Biopsy Forceps, 3 Fr, Flexible<br>8. Scissors, 5 Fr, Flexible<br>9. Button electrode, Unipolar, 3Fr<br>10. Luer-Lock Tube connector |
| 27 | **Semi Rigid Ureter Renoscope:** 7 Fr distal-tip, 8Fr sheath (1-step 12 Fr), 6°, 43cm, 5Fr working channel |
| 28 | **Semi Rigid Ureter Renoscope:** 8 Fr distal-tip, 9.5Fr sheath (1-step 12 Fr), 6°, 43cm, 6 Fr working channel |
| 29 | **Minimally Invasive PCNL Nephroscope Set**<br>• Open-system, vacuum cleaner effect, pressure-controlled<br>• With angled eyepiece, 12 Fr, 12°, length 22cm, 6.7Fr working channel,<br>• Complete with accessories of various sizes for operating sheath, one step dilator, application for sealing and grasping forceps |
| 30 | Two (2) sets of **Flexible Video Cystoscope set** |

| NO. | TERMS AND CONDITIONS |
|---|---|
| 1 | Tenderer must be registered with the Ministry of Health. |
| 2 | **TENDER FORM should be filled** completely including the **USER REQUIREMENT FORM** (if available). Submission of incomplete form **MAY** cause **DISQUALIFICATION OF TENDER.** |
| 3 | Each tenderer is allowed to quote **ONE BRAND WITH ONE PRICE ONLY** for each item. Submission of more than one brand and price will cause **DISQUALIFICATION OF TENDER.** |
| 4 | All consumables supplied throughout this tender shall have a minimum expiry date of **twelve (12) months / on delivery** (if applicable).<br>Should the consumables be urgently needed, provision of consumables with expiry date of less than twelve (12) months should be first agreed by the User before delivery is made (if applicable). |
| 5 | Brochures / catalogues should be submitted / attached with tender document. |
| 6 | Samples should be submitted together with tender or within fourteen (14 days) of the tender closing dates (if applicable). |
| 7 | DELIVERY PERIOD:<br>(Please state) Not More Than **90 days** upon confirmation |
| 8 | PRICE VALIDITY:<br>The quotation shall remain valid for **12 MONTHS** from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period.<br>The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s). |
| 9 | The equipment supplied must be newly manufactured, unused, and in its original, sealed packaging. The equipment must not be previously owned, refurbished, or reconditioned in any form.<br>The vendor is required to provide proof of manufacture date confirming the equipment is new. |

**SECTION 3**

**TENDER FORM**

To:

**TENDER REFERENCE NO.: KK/194/2026/HTD**

**INVITATION TO TENDER**
**PROVISIONAL OF SURGICAL ENDOSCOPY SYSTEM FOR OPERATING THEATRE, RIPAS HOSPITAL AND SSB HOSPITAL**

**SCOPE OF WORK AND SUMMARY OF PRICES**

1. This tender is for the Supply, Delivery, Installation, Testing, Commissioning and Warranty Maintenance of four (4) units of Surgical Endoscopy System and One-off purchase of videoscopes either by
   i. **Option A - Outright Purchase or**
   ii. **Option B - Leasing.**
2. **For Option A**- Outright Purchase, the tender requires
   - Provision of a standard comprehensive warranty period of two (2) years for both Surgical Endoscopy System and Videoscopes and
   - Propose additional three (3) years extended comprehensive warranty for the Surgical Endoscopy System only.
3. **For Option B**- Leasing, the tender requires
   - The Surgical Endoscopy System to be leased for a period of five (5) years inclusive of the comprehensive maintenance and spare parts
   - The Videoscopes to be purchased outright with two (2) years warranty

| Description | Option A- Outright | Option B- Leasing |
|---|---|---|
| **Surgical Endoscopy System** | Outright + 2 years warranty | Leasing 5 years |
| | 3 years extended comprehensive warranty | |
| **Videoscopes + Scopes** | Outright + 2 years warranty | Outright + 2 years warranty |

4. **Appendix A** - Tenderer must also include the cost of each listed videoscopes with price remain valid and fixed for five (5) years from date of awarded.

The Government reserves the right to purchase any of the listed Videoscopes during the contract period at the quoted price, as and when required.

| DESCRIPTION | QTY | Y | N | OPTION A OUTRIGHT PURCHASE | OPTION B LEASING FOR 5 YEARS |
|---|---|---|---|---|---|
| **SURGICAL ENDOSCOPY WITH NIR/ICG FLUORESCENCE IMAGING (ORL)** | **1** | | | **TOTAL PRICE** BND$ | **QUARTERLY LEASE PRICE** BND$ **YEARLY LEASE PRICE** BND$ |
| **SURGICAL ENDOSCOPY SYSTEM (GENERAL SURGERY)** | **2** | | | **TOTAL PRICE** BND$ | |
| **SURGICAL ENDOSCOPY SYSTEM (UROLOGY)** | **1** | | | **TOTAL PRICE** BND$ | |
| **ONE OFF PURCHASE OF VIDEOSCOPES + SCOPES** | **1 LOT** | | | **PRICE FOR ONE OFF PURCHASE OF VIDEOSCOPES** BND$ | |
| **TOTAL** | | | | **TOTAL PRICE** BND$ | **TOTAL LEASING PRICE + ONE-OFF VIDEOSCOPES** BND$ |

| SUMMARY OF SYSTEM CONFIGURATION REQUIREMENT | | | | | | |
|---|---|---|---|---|---|---|
| | **Surgical Endoscopy System, ICG Capable** | **Surgical Endoscopy System, Standard** | **Autoclavable camera head** | **Insufflator** | **Fluid Management System** | **Additional Monitor complete with Cart/Trolley** |
| **General Surgery (RIPASH)** | **1** | **-** | **3** | **1** | **1** | **1** |
| **General Surgery (SSBH)** | **1** | **-** | **1** | **1** | **1** | **-** |
| **Orthorhinology (ORL)** | **1** | **-** | **1** | **-** | **-** | **-** |
| **Urology** | **-** | **1** | **1** | **1** | **2** | **1** |

| SECTION 1 – USER REQUIREMENTS | | | | |
|---|---|---|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | | | | |
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 1.1 | Three (3) units of Surgical Endoscopy System with integrated Near Infrared (NIR) / Indocyanine Green (ICG) Fluorescence Imaging capability for use of General Surgery and Otorhinolaryngology department. | | | |
| 1.2 | The system shall be designed for use in an operating theatre environment **and** suitable for continuous clinical operation | | | |
| 1.3 | **SYSTEM CONFIGURATION** | | | |
| 1.3.1 | **Each Surgical Endoscopy system shall consist of, but not limited to:**<br>**1. Camera control unit (CCU)**<br>**2. Autoclavable camera head with NIR/ICG Fluorescence imaging**<br>**3. High-performance light source**<br>**4. Medical-grade monitor**<br>**5. Image/video recording system**<br>6. **Mobile endoscopy trolley cart** | | | |
| 1.3.2 | **Additional requirements:**<br>**1. Two (2) unit of Camera head (For RIPASH GS)**<br>**2. Two (2) units of Insufflator (1 Unit for RIPASH GS and 1 unit for SSBH GS)**<br>**3. Two (2) units of Fluid Management system (For RIPAS GS and SSBH GS)**<br>**4. One (1) unit of Display monitor complete with individual cart/trolley (For RIPASH GS)** | | | |
| 1.4 | **CAMERA CONTROL UNIT** | | | **Model:** |
| 1.4.1 | Advanced image processing unit must support both Full HD and 4K resolution | | | |
| 1.4.2 | The system shall be for use with camera head, rigid and flexible endoscopes | | | |
| 1.4.3 | Real-time image enhancement technologies including:<br>▪ Brightness optimization<br>▪ Colour contrast enhancement<br>▪ Tissue structure and vascular enhancement modes | | | |
| 1.4.4 | Low-latency video signal transmission suitable for real-time surgical procedures | | | |
| 1.4.5 | USB interface available for Data export and software updates | | | |
| 1.4.6 | Shall allow automatic device recognition and coordinated control to improve workflow efficiency | | | |
| 1.4.7 | Shall enable interconnection and synchronized operation of:<br>▪ Camera control units | | | |

| SECTION 1 – USER REQUIREMENTS | | | | |
|---|---|---|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | | | | |
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| | ▪ Light sources<br>▪ Insufflators<br>▪ Documentation systems | | | |
| 1.5 | **CAMERA HEAD** | | | **Model:** |
| 1.5.1 | Camera head shall be **4K UHD and suitable for NIR/ICG fluorescence imaging** | | | |
| 1.5.2 | The camera head shall be compatible with both standard rigid endoscopes and NIR/ICG-capable endoscopes. | | | |
| 1.5.3 | Ergonomic, lightweight design suitable for prolonged operative procedures | | | |
| 1.5.4 | Programmable camera head buttons for:<br>▪ Image capture<br>▪ Video recording<br>▪ Digital zoom<br>▪ White balance | | | |
| 1.5.5 | Camera head shall be:<br>▪ Soak able<br>▪ Sterilizable with Hydrogen Peroxide<br>▪ Disinfected with High-Level Disinfection | | | |
| 1.6 | **FLUORESCENCE IMAGING (NIR / ICG)** | | | |
| 1.6.1 | The system shall support near-infrared fluorescence imaging (e.g. ICG) | | | |
| 1.6.2 | Fluorescence mode shall allow visualization of:<br>▪ Vascular perfusion<br>▪ Anatomical structures<br>▪ Tissue differentiation | | | |
| 1.6.3 | Fluorescence functionality shall be integrated seamlessly into the main system without requiring a separate tower. | | | |
| 1.7 | **LIGHT SOURCE** | | | **Model:** |
| 1.7.1 | For systems equipped with fluorescence imaging, the light source shall be **specifically designed for NIR/ICG excitation**, enabling seamless switching between white light and fluorescence modes without the use of a separate tower**.** | | | |
| 1.7.2 | The system shall be equipped with a high-intensity LED light source or equivalent. | | | |
| 1.7.3 | The light source shall provide:<br>▪ Uniform illumination<br>▪ Stable color temperature<br>▪ Automatic and manual brightness control | | | |

| SECTION 1 – USER REQUIREMENTS | | | | |
|---|---|---|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | | | | |
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 1.7.4 | LED lifespan shall be long-life and not require frequent bulb replacement. | | | Expected LED replacement interval: |
| 1.7.5 | Tenderer shall supply **two additional light cables for RIPAS Hospital**, in addition to the standard light cable supplied with the surgical endoscopy system | | | |
| 1.8 | **ENDOSCOPE COMPATIBILITY** | | | **Model:** |
| 1.8.1 | The system shall be compatible with:<br>▪ **Rigid endoscopes (Standard and NIR/ICG Compatible)**<br>▪ **Flexible endoscopes** | | | |
| 1.8.2 | The system shall support the following specialties:<br>▪ **Urology:** cystoscopy, ureteroscopy, resectoscopy, nephroscopy<br>▪ **ENT:** sinus endoscopy, laryngoscopy, otology<br>▪ **General Surgery**: laparoscopy and related procedures | | | |
| 1.8.3 | Optical adapters shall be available to support multiple scope diameters and viewing angles with the supply of at least the following:<br>▪ One (1) unit of compatible light cable for use with <5.0mm telescopes or equivalent<br>▪ One (1) unit of compatible light cable for use with >5.0mm telescopes or equivalent | | | |
| 1.9 | **DOCUMENTATION SYSTEM & CONNECTIVITY** | | | **Model:** |
| 1.9.1 | 12.5” touchscreen control screen or equivalent | | | |
| 1.9.2 | The system shall provide multiple digital video outputs such as:<br>▪ HDMI<br>▪ DVI and/or SDI | | | |
| 1.9.3 | The system shall support real-time video recording and still image capture | | | **HDMI Output:**<br>**DVI-D Output:**<br>**SDI Output:** |
| 1.9.4 | Recorded data shall be exportable via<br>▪ USB storage<br>▪ Network connection (where applicable) | | | |
| 1.9.5 | **The system must be DICOM and PACS ready and enabled for future integration with Hospital Information System (HIS) where required.** | | | |

| SECTION 1 – USER REQUIREMENTS | | | | |
|---|---|---|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | | | | |
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 1.10 | **DISPLAY MONITOR** | | | **Model:** |
| 1.10.1 | The system shall include a **medical-grade flat panel monitor**. | | | |
| 1.10.2 | Monitor size shall be **minimum 32 inches**. | | | |
| 1.10.3 | For the 4K fluorescence-capable system, the monitor shall support **4K resolution** to allow full utilization of the imaging system. | | | |
| 1.10.4 | Has multiple variety of video input port including HDMI, Display port, SDI | | | |
| 1.10.5 | Capable of dual screen display or Picture-in-Picture feature | | | |
| 1.10.6 | Inclusive of mounting on top of the cart on an adjustable swivel arm (height and side) | | | |
| 1.10.7 | For the additional external display monitors, the tenderer shall supply each unit complete with a dedicated cart/trolley equipped with lockable castor wheels, suitable for use in the operating theatre | | | |
| 1.11 | **INSUFFLATOR** | | | |
| 1.11.1 | High flow insufflators suitable for laparoscopic and minimally invasive surgical procedures. | | | |
| 1.11.2 | The insufflator shall provide **precise pressure-controlled and flow-controlled insufflation**, with adjustable intra-cavity pressure up to **at least 30 mmHg** and high-flow capability suitable for advanced laparoscopy. | | | |
| 1.11.3 | 7” touchscreen display or equivalent | | | |
| 1.11.4 | High flow mode and paediatric mode | | | |
| 1.11.5 | Hose heating capability | | | |
| 1.11.6 | Overpressure safety warning feature | | | |
| 1.11.7 | The system shall incorporate automatic pressure regulation, leakage compensation, and comprehensive safety alarms, including overpressure, gas supply failure, and occlusion detection. | | | |
| 1.12 | **FLUID MANAGEMENT SYSTEM** | | | |

| SECTION 1 – USER REQUIREMENTS | | | | |
|---|---|---|---|---|
| **1. SURGICAL ENDOSCOPY SYSTEM WITH INTEGRATED NIR / ICG FLUORESCENCE IMAGING CAPABILITY (GENERAL SURGERY & ORTHORHINOLOGY)** | | | | |
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 1.12.1 | Fluid management system suitable for use during endoscopic and minimally invasive surgical procedures. | | | |
| 1.12.2 | The system shall be a pressure-controlled irrigation pump designed to maintain stable cavity pressure and clear visualization during surgery. | | | |
| 1.12.3 | Adjustable irrigation pressure range shall be approximately 20 mmHg to at least 300 mmHg, with continuous monitoring and digital display of set and actual pressure. | | | |
| 1.12.4 | Equipped with overpressure protection, occlusion detection, and visual/audible alarms. | | | |
| 1.12.5 | Supports hands-free operation via footswitch and is compatible with standard endoscopic instruments. | | | |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 2.1 | One unit of Standard Surgical Endoscopy System for urology of RIPAS Hospital. System shall be designed for Photodynamic Diagnosis (PDD) / Blue Light Cystoscopy for detection and management of non-muscle invasive bladder cancer (NMIBC). | | | |
| 2.2 | The system shall be designed for use in an **operating theatre environment** and suitable for continuous clinical operation | | | |
| 2.3 | **SYSTEM CONFIGURATION**<br>**The standard Surgical Endoscopy system for Urology shall consist of, but not limited to:**<br>1. Camera control unit (CCU)<br>2. Autoclavable camera head<br>3. High-performance light source<br>4. Medical-grade monitor<br>5. Image/video recording system<br>6. Mobile endoscopy trolley cart<br>7. One (1) unit of Insufflator<br>8. Two (2) units of Fluid Management System<br>9. One (1) unit of Additional External Display monitor complete with cart/trolley | | | |
| 2.4 | **CAMERA CONTROL UNIT** | | | **Model:** |
| 2.4.1 | Advanced image processing unit must **support both Full HD and 4K resolution** | | | |
| 2.4.2 | Camera control unit shall support:<br>▪ White light imaging<br>▪ Blue light fluorescence imaging (PDD mode) | | | |
| 2.4.3 | System shall allow rapid switching between white light and blue light modes during procedure. | | | |
| 2.4.4 | The system shall be for use with camera head, rigid and flexible endoscopes | | | |
| 2.4.5 | Real-time image enhancement technologies including:<br>▪ Brightness optimization<br>▪ Colour contrast enhancement<br>▪ Tissue structure and vascular enhancement modes | | | |
| 2.4.6 | Low-latency video signal transmission suitable for real-time surgical procedures | | | |
| 2.4.7 | USB interface available for Data export and software updates | | | |
| 2.4.8 | Shall allow automatic device recognition and coordinated control to improve workflow efficiency | | | |
| 2.4.9 | Shall enable interconnection and synchronized operation of:<br>▪ Camera control units<br>▪ Light sources | | | |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| | ▪ Insufflators<br>▪ Documentation systems | | | |
| 2.5 | **CAMERA HEAD** | | | **Model:** |
| 2.5.1 | Native resolution: **4K UHD or equivalent** | | | |
| 2.5.2 | Camera head shall be suitable for PDD/blue light fluorescence imaging. | | | |
| 2.5.3 | Ergonomic, lightweight design suitable for prolonged operative procedures | | | |
| 2.5.4 | Programmable camera head buttons for:<br>▪ Image capture<br>▪ Video recording<br>▪ Digital zoom<br>▪ White balance | | | |
| 2.5.5 | Camera head shall be:<br>▪ Soakable<br>▪ Sterilizable with Hydrogen Peroxide<br>▪ Disinfected with High-Level Disinfection | | | |
| 2.6 | **LIGHT SOURCE** | | | **Model:** |
| 2.6.1 | The system shall be equipped with a high-intensity LED light source or equivalent. | | | |
| 2.6.2 | System shall include dedicated light source for:<br>▪ White light imaging<br>▪ Blue light fluorescence imaging | | | |
| 2.6.3 | The light source shall provide:<br>▪ Uniform illumination<br>▪ Stable color temperature<br>▪ Automatic and manual brightness control | | | |
| 2.6.4 | LED lifespan shall be long-life and **not require frequent bulb replacement**. | | | Expected LED replacement interval: |
| 2.7 | **ENDOSCOPE COMPATIBILITY** | | | |
| 2.7.1 | The system shall be compatible with:<br>▪ Rigid endoscopes<br>▪ Flexible Endoscopes<br>▪ Rigid PDD-compatible cystoscope telescopes | | | |
| 2.7.2 | The system shall support **Urology procedure** which are cystoscopy, ureteroscopy, resectoscopy, nephoscopy | | | |
| 2.7.3 | Optical adapters shall be available to support multiple scope diameters and viewing angles with the supply of at | | | |

| 2. SURGICAL ENDOSCOPY SYSTEM STANDARD (UROLOGY) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| | least the following:<br>▪ One (1) unit of compatible light cable for use with <5.0mm telescopes or equivalent<br>▪ One (1) unit of compatible light cable for use with >5.0mm telescopes or equivalent | | | |
| 2.8 | **DOCUMENTATION SYSTEM & CONNECTIVITY** | | | **Model:** |
| 2.8.1 | 12.5” touchscreen control screen or equivalent | | | |
| 2.8.2 | The system shall provide multiple digital video outputs such as:<br>▪ HDMI<br>▪ DVI and/or SDI | | | |
| 2.8.3 | The system shall support **real-time video recording and still image capture** | | | **HDMI Output:**<br>**DVI-D Output:**<br>**SDI Output:** |
| 2.8.4 | Recorded data shall be exportable via<br>▪ USB storage<br>▪ Network connection (where applicable) | | | |
| 2.8.5 | **The system must be DICOM and PACS ready and enabled for future integration with Hospital Information System (HIS) where required.** | | | |
| 2.9 | **DISPLAY MONITOR** | | | **Model:** |
| 2.9.1 | The system shall include a **medical-grade flat panel monitor**. | | | |
| 2.9.2 | Monitor size shall be **minimum 32 inches**. | | | |
| 2.9.3 | The monitor shall support **4K resolution or better**. | | | |
| 2.9.4 | Has multiple variety of video input port including HDMI, Display port, SDI | | | |
| 2.9.5 | Capable of dual screen display or Picture-in-Picture feature | | | |
| 2.9.5 | Inclusive of mounting on top of the cart on an adjustable swivel arm (height and side) | | | |
| 2.9.6 | For the additional external display monitors, the tenderer shall supply each unit complete with a dedicated cart/trolley equipped with lockable castor wheels, suitable for use in the operating theatre | | | |

| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 3.1 | Standard Features | | | |
| 3.1.1 | All scopes must be sterilizable and comes with individual sterilization and storage box. | | | |
| 3.1.2 | **Tenderer may offer alternative brand(s) of scope, provided that the scope is fully compatible with the system offered, including the provision of all necessary compatible connectors, at no additional cost.** | | | |
| 3.1.3 | **All scopes listed must have two (2) years comprehensive warranty.** | | | |
| 3.2 | **Specialty: General Surgery (RIPASH), ICG compatibility required where applicable**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** | | | |
| 3.2.1 | Three (3) units of $0^0$ telescope, 5mm diameter, Working length 290mm | | | |
| 3.2.2 | Three (3) units of $0^0$ telescope, 10mm diameter, Working Length 310mm | | | |
| 3.2.3 | Five (5) units of $30^0$ telescope, 3.5mm diameter, Working Length 300mm | | | |
| 3.2.4 | One (1) set of Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector | | | |
| 3.2.5 | One (1) unit of Mini $0^0$ laparoscope, 5mm, 3.5mm diameter working channel, working Length: 300mm | | | |
| 3.2.6 | One (1) unit of Flexible Ureteroscope, $0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm | | | |
| 3.2.7 | Seven (7) units of $30^0$ telescope, 5mm, working length: 290mm | | | |
| 3.2.8 | Two (2) units of $30^0$ telescope, 5mm, working length: 430mm | | | |
| 3.2.9 | One (1) units of $30^0$ telescope, 10mm, working length: 310mm | | | |
| 3.2.10 | Two (2) units of $30^0$ telescope, 10mm, working length: 440mm | | | |
| 3.2.11 | One (1) units of $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece | | | |
| 3.3 | **Specialty: General Surgery (SSBH), ICG compatibility required where applicable**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** | | | |

| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 3.3.1 | Two (2) units of $0^0$ telescope, 5mm diameter, Working length 290mm | | | |
| 3.3.2 | Two (2) units of $0^0$ telescope, 10mm diameter, Working Length 310mm | | | |
| 3.3.3 | Two (2) units of $30^0$ telescope, 3.5mm diameter, Working Length 300mm | | | |
| 3.3.4 | One (1) set of Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector | | | |
| 3.3.5 | One (1) unit of Flexible Ureteroscope, $0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm | | | |
| 3.3.6 | Two (2) units of $30^0$ telescope, 5mm, working length: 290mm | | | |
| 3.3.7 | One (1) unit of $30^0$ telescope, 5mm, working length: 430mm | | | |
| 3.3.8 | One (1) unit of $30^0$ telescope, 10mm, working length: 440mm | | | |
| 3.3.9 | One (1) units of $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece | | | |
| 3.4 | **Specialty: ORL**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** | | | |
| 3.4.1 | One (1) unit of ICG Capable, $0^0$ telescope, 4mm, 18cm | | | |
| 3.4.2 | One (1) unit of ICG Capable, $30^0$ telescope, 4mm, 18cm | | | |
| 3.4.3 | One (1) unit of ICG Capable, $45^0$ telescope, 4mm, 18cm | | | |
| 3.4.4 | One (1) unit of Endocameleon scope 15° to $90^0$, 4mm, 18cm | | | |
| 3.4.5 | Four (4) units of $0^0$ telescope, 3mm, 15cm | | | |
| 3.4.6 | Two (2) units of $0^0$ telescope, 2.7mm, 18cm | | | |
| 3.4.7 | Two (2) units of $0^0$ telescope, 2.9mm, 36cm | | | |
| 3.4.8 | Two (2) units of $0^0$ telescope, 4mm, 18cm | | | |
| 3.4.9 | One (1) unit of $0^0$ telescope, 4mm, 30cm | | | |

| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| 3.4.10 | Two (2) units of $30^0$ telescope, 4mm, 18cm | | | |
| 3.4.11 | Two (2) units of $45^0$ telescope, 4mm, 18cm | | | |
| 3.5 | **Specialty: Urology**<br>**Tenderer shall supply the following scopes with the stated size and length, or equivalent size and length** | | | |
| 3.5.1 | **Rigid Cysto-Urethroscopy Set**, PDD-Compatible of the following approximate sizes: | | | |
| 3.5.1.1 | Two (2) units of 0° telescope, 4mm, 29cm | | | |
| 3.5.1.2 | One (1) unit of 12° telescope, 4mm, 30cm | | | |
| 3.5.1.3 | Three (3) units of 30° telescope, 4mm, 30cm | | | |
| 3.5.1.4 | Two (2) units of 70° telescope, 4mm, 30cm | | | |
| 3.5.1.5 | Complete with the following but not limited to:<br>- Four (4) sets of Cystoscope Sheath, 22 Fr<br>- One (1) set of Cystoscope Sheath, 20 Fr<br>- One (1) set of Cystosope Sheath, 17 Fr<br>- Four (4) sets of Telescope Bridge with 2 Lockable channels<br>- Five (5) sets of Catheter Deflecting Mechanism, with ALBARRAN lever, with 2 lockable channels<br>- Five (5) sets of Foreign Body Forceps, 3 Fr, Flexible, Double action jaws<br>- One (1) set Biopsy Forceps, 3 Fr, Flexible<br>- One (1) set Scissors, 5 Fr, Flexible<br>- Three (3) sets of Button electrode, Unipolar, 3Fr<br>- Luer-Lock Tube connector | | | |
| 3.5.2 | **Semi Rigid Ureter Renoscope set**, of the following approximate sizes: | | | |
| 3.5.2.1 | Three (3) units of 7 Fr distal-tip, 8Fr sheath (1-step 12 Fr), 6°, 43cm, 5Fr working channel | | | |
| 3.5.2.2 | One (1) unit of 8 Fr distal-tip, 9.5Fr sheath (1-step 12 Fr), 6°, 43cm, 6 Fr working channel | | | |
| 3.5.3 | Two (2) units of $30^0$ telescope, 5mm, 29cm | | | |
| 3.5.4 | Two (2) units of $30^0$ telescope, 10mm, 31cm | | | |
| 3.5.5 | Three (3) sets of **Minimally Invasive PCNL Nephroscope Set** | | | |

| **3. ONE OFF PURCHASE OF VIDEOSCOEPS + SCOPES**<br>(Tenderer to include the cost of one-time purchase of listed scopes below for both Option A and Option B) | | | | |
|---|---|---|---|---|
| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
| | | **Y** | **N** | |
| | ▪ Open-system, vacuum cleaner effect, pressure-controlled<br>▪ With angled eyepiece, 12 Fr, 12°, length 22cm, 6.7Fr working channel<br>▪ Complete with accessories of various sizes for operating sheath, one step dilator, application for sealing and grasping forceps | | | |
| 3.5.6 | Two (2) sets of **Flexible Video Cystoscope set** | | | |
| 3.6 | Tenderer to submit the cost of each scopes listed above in Appendix A. These prices will be a reference price and must be valid to be use the whole 5 years warranty period of Outright (with additional 3 years System Comprehensive Maintenance Service Post Warranty) and Leasing for the purpose of additional or replacement purchases when required on a separate request. | | | |

| **REF. NO.** | **DESCRIPTION** | **(✓)** | | **STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE** |
|---|---|---|---|---|
| | | **Y** | **N** | |
| **4** | **CONSUMABLES AND ACCESSORIES** | | | |
| 4.1 | **Inclusive of all necessary accessories for operation, cleaning and maintenance.** | | | |
| 4.2 | Each camera head system shall be supplied with a camera head container suitable for sterilization and storage | | | |
| 4.3 | Each videoscope shall be supplied with individual sterilization and storage box | | | |
| * In your quotation/tender document, please breakdown/itemized the price for each accessories/ consumables | | | | |
| **5** | **END USER AND TECHNICAL TRAINING** | | | |
| 5.1 | Conduct **user training** to the all-end users by an application specialist or competent local engineer including but not limited to:<br>▪ Basic user operation, user troubleshooting and user maintenance<br>▪ Provide Operating manual (Hardcopy and/or Softcopy) | | | |
| 5.1.1 | Tenderer must **prepare a training attendance or proof of training done to end user during commissioning and the refresher course (6) months after commissioning**. | | | |
| 5.2 | **Introductory Technical Training** to Biomedical Engineers and Technicians at BME Office by competent Tenderer's Engineer/Technicians that includes but not limited to: | | | |

<table>
<tr><th rowspan="2">REF. NO.</th><th rowspan="2">DESCRIPTION</th><th colspan="2">(✓)</th><th rowspan="2">STATE OR SPECIFY OR REMARKS OR BROCHURE PAGE</th></tr>
<tr><th>Y</th><th>N</th></tr>
<tr><td></td><td>▪ Troubleshooting and basic corrective maintenance<br>▪ Handling and basic inspection maintenance<br>*(Two sessions/groups if required)</td><td></td><td></td><td></td></tr>
<tr><td>6</td><td>WARRANTY</td><td></td><td></td><td></td></tr>
<tr><td>6.1</td><td>The Tenderer shall provide a comprehensive warranty period as below where applicable,<br><br>
<table>
<tr><th>Description</th><th>Option A- Outright</th><th>Option B- Leasing</th></tr>
<tr><td rowspan="2">Surgical Endoscopy System</td><td>Outright + 2 years warranty</td><td rowspan="2">Leasing 5 years</td></tr>
<tr><td>3 years extended comprehensive warranty</td></tr>
<tr><td>Videoscopes + Scopes</td><td>Outright + 2 years warranty</td><td>Outright + 2 years warranty</td></tr>
</table></td><td></td><td></td><td></td></tr>
<tr><td>6.2</td><td>Tenderers to ACKNOWLEDGE the Warranty Undertaking Form in Section 4 stating the terms of warranty provided for the equipment in the tender for the period of <u>two (2) years for the outright purchase option</u> and <u>five (5) years for the leasing option</u>.<br>This includes but not limited to:<br>▪ Scope of Warranty<br>▪ One-time Planned Preventive Maintenance Per Year during warranty<br>▪ Comprehensive Corrective Maintenance of Main Unit</td><td></td><td></td><td></td></tr>
<tr><td></td><td>Please ☑ Tick where appropriate</td><td>Yes</td><td>No</td><td>Remarks</td></tr>
<tr><td>7</td><td>PRODUCT DEMONSTRATION (UPON REQUEST)</td><td></td><td></td><td></td></tr>
<tr><td>7.1</td><td>If requested by the Government, vendor shall provide a product demonstration as part of the evaluation process<br>The tenderer shall provide either of the following demonstration modes:<br>• Physical Demonstration (In-Person): A complete working unit must be brought to the designated demonstration site as specified by the procuring entity. The demonstration shall be conducted by qualified personnel from the supplier.<br>• Online Demonstration (Virtual): The demonstration may be conducted via a live video conferencing platform (e.g., Zoom, MS Teams). The session must include:<br>✓ Live operation of the actual product.<br>✓ Real-time interaction to address questions or perform requested functions.<br>✓ High-definition video and clear audio for full visibility and understanding.</td><td></td><td></td><td></td></tr>
</table>

<table>
<tr><th colspan="3">SECTION 2 – PRICE PROPOSAL (OPTION A)</th></tr>
<tr><td rowspan="4">OPTION A<br><u>OUTRIGHT PURCHASE</u></td><td colspan="2">▪ Tenderer to offer the system on an outright purchase basis, with a single full payment made after delivery, installation, commissioning, and user training are completed.<br>▪ Inclusive of a standard two (2) years comprehensive warranty for both system and scopes covering:<br>✓ All parts and labour<br>✓ On-site after-sales service support<br>✓ Software updates and upgrades<br>✓ One-time Preventive Maintenance per year.<br>▪ Tenderer to also offer the cost of an additional three (3) years extended comprehensive warranty with the same coverage after the initial 2 years (5 years total warranty) for system only.<br>▪ Warranty coverage is as specified in the Warranty Undertaking Form.<br>▪ Payments for the extended warranty will be made on a Per Preventive Maintenance (PPM) basis after initial 2 years warranty ended.<br>▪ The tenderer shall provide a detailed price breakdown for the consumables and accessories in your offer quotation.</td></tr>
<tr><td>PRICE WITH 2 YEARS COMPREHENSIVE WARRANTY<br>BND$</td><td rowspan="2">PRICE OF ADDITIONAL 3 YEARS COMPREHENSIVE WARRANTY FOR SYSTEM ONLY<br>BND$:<br><br>BND$/YEAR:</td></tr>
<tr><td>ONE OFF PURCHASES PRICE OF VIDEOSCOPES<br>BND$</td></tr>
<tr><td colspan="2">TOTAL OUTRIGHT PRICE FOR 5 YEARS WARRANTY<br>BND$</td></tr>
</table>

<table>
<tr><th colspan="4">SECTION 2 – PRICE PROPOSAL (OPTION B)</th></tr>
<tr><td rowspan="3">OPTION B<br><u>LEASING<br>PRICE FOR 5<br>YEARS</u></td><td colspan="3">▪ Tenderer to offer the system on a 5-years leasing basis, with quarterly payments over the period of 5 years<br>▪ The payment for one off purchases of scope can be claim after the delivery.<br>▪ The tenderer shall provide a detailed price breakdown for the consumables and accessories<br>▪ Ownership remains with the tenderer during the lease except the one-time purchase of scopes.<br>▪ Tenderer is responsible for full maintenance and support throughout the lease, as per the Warranty Undertaking Form.<br>▪ Payment terms;<br>✓ First lease payment starts after 3 months of delivery, installation, commissioning, and user training.<br>✓ Final lease payment is shall be made in the last month of the 5th year.<br>At the end of the lease period, MOH has the option to purchase the leased system, subject to equipment condition and approval by the relevant committee. If MOH decides not to purchase the system, the system will be returned to the tenderer.</td></tr>
<tr><td>i. ONE OFF PURCHASE PRICE FOR VIDEOSCOPES:</td><td>BND$</td><td rowspan="2">TOTAL PRICE (i+ii)<br>BND$</td></tr>
<tr><td>ii. TOTAL LEASE PRICE FOR 5 YEARS:</td><td>BND$:<br><br>QUARTERLY LEASE PRICE<br>BND$:<br><br>LEASE PRICE PER YEAR:<br>BND$:</td></tr>
</table>

| SECTION 3 - PROCUMENT AND TECHNICAL SPECIFICATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BRAND: | | | | | MODEL: | | | | |
| COUNTRY OF ORIGIN: | | | | | | | | | |
| YEAR INTRODUCED TO MARKET: | | | | | | | | | |
| PRICE VALIDITY: [AT LEAST ONE (1) YEAR PRICE VALIDTY] | | | | | | | | | |
| DELIVERY TIME: | | | | | | | | | |
| AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED) | | | | | APPOINTED BRUNEI DISTRIBUTOR | | | | |
| | | | | | PROCURE FROM OVERSEA AUTHORIZED DISTRIBUTOR | | COMPANY NAME: | | |
| | | | | | | | COMPANY ORIGIN: | | |
| DETAILED BROCHURE INCLUDED | | YES | | NO | **☑ or specify where appropriate** | | | | |
| USER AND SERVICE MANUALS: | | YES | | NO | Tenderers to acknowledge that they must provide at least TWO sets of USER AND SERVICE manuals when applying commissioning form. One Set for End User, One Set for BME. (Please provide hardcopy or softcopy) | | | | |
| MAINS POWER SUPPLY: | | 220V-240V | | | BATTERY [ ] YES [ ]NO | | | | |
| | | 50-60HZ | | | Type of Battery: | | Rating: | | |
| | | OTHERS: | | | RECHARGEABLE | | NON-RECHARGEABLE | | |
| POWER ADAPTER/CHARGER OUTPUT RATING: | | | | | EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE: | | | | |
| NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN)<br><br>Please provide training or certification for locals who is trained/certified | | LOCAL | | | | | □ Trained / Certified<br>□ Not yet trained on the product | | |
| | | OVERSEA (SPECIFY LOCATION) | | | NEAREST LOCATION: | | | | |
| DIMENSIONS AND WEIGHT OF MAIN UNIT: | | | | | □ mm<br>□ cm<br>□ inch | | | □ Kilogram (Kg)<br>□ Gram(g)<br>□ Pound (lbs) | |
| EQUIPMENT WHOLE LIFE TIME SUPPORT: | The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment.<br>No of years: _____ (Please specify) | | | | | | | | |

## SECTION 4 – WARRANTY UNDERTAKING FORM (PAGE 1)

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under Warranty for either two (2) years for Outright Purchase or Leasing period of Five (5) years, must cover the scope of comprehensive warranty at no additional cost:

- Warrants the supplied medical equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.
- Inclusive of Comprehensive Maintenance Service (see below)
- **Exchange warranty**; Providing replacement units or OEM parts for:

  A. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during Commissioning or within the first six (6) months of use
  B. Faulty workmanship or unsatisfactory condition during delivery or commissioning
  C. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the user and BME Unit.

**COMPREHENSIVE MAINTENANCE SERVICE**

Tenderer must provide a comprehensive maintenance during the warranty period. The scope for **Comprehensive Maintenance Service** consists of:

**A. Inspection Maintenance (IM)**
**B. Corrective Maintenance (CM) and**
**C. Planned Preventive maintenance (PPM)**
**D. Breakdown call**

| **EXCLUSION FROM WARRANTY** | **TENDERER ACKNOWLEDGMENT ON WARRANTY UNDERTAKING FORM PAGE 1** |
|---|---|
| MOH understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to MOH approval:<br>▪ Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.<br>▪ Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.<br>▪ Vandalism and Natural disasters<br><br>Tenderer may also attach a list of terms to be excluded from the warranty for MOH consideration and notification | **COMPANY CHOP AND SIGNATURE** |

## SECTION 4 – WARRANTY UNDERTAKING FORM (PAGE 2)

| **A. Inspection Maintenance (IM)** | **TENDERER ACKNOWLEDGMENT ON WARRANTY UNDERTAKING FORM PAGE 2** |
|---|---|
| ▪ Must be conducted every six (6) months starting from commissioning date.<br>▪ Issuance of IM Report to End User and Biomedical Engineering Unit of respective Facilities (BME)<br>▪ Physical hardware checks on main unit/system and all supplied accessories<br>▪ System, Software and Application check-up – Update to latest version when available<br>▪ Performance and Functional testing<br>▪ Servicing/Cleaning of dust | **COMPANY CHOP AND SIGNATURE** |

**B. Corrective Maintenance (CM):**

- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported including any cost of breakdown repairs.
- Repair and replacement of parts with new, quality, and compatible parts within thirty (30) days after receipt of reported problem by BME. (Valid also for all scopes for the duration of the first 2 years only)
- Post repair tests with reports to ensure Electrical Safety Test, Performance Test and Functional Test is conducted.

**C. Planned Preventive Maintenance (PPM):**

- **One time yearly Planned Preventive Maintenance (PPM)** according to Manufacturer's Preventive Maintenance Guideline, including replacements of PM Kits, any relevant parts to prolong equipment lifespan AND **one-time LED light replacement during final 5$^{th}$ year, unless required earlier.**
- Provide Maintenance Due Date stickers after each PPM or booklet for easy monitoring

**D. Breakdown Call**

- Onsite response to assess and rectify any breakdown call within a maximum of two (2) hours after receipt of reported problem by BME Unit preferably during office hours, else after office hours or public holidays.
  - ✓ Deduction demerit shall be imposed if the Company fails to provide onsite response within the time above and the deduction amount shall be based on the frequency of event times certain rate to be formulated later.
- Downtime: Not more than 24 hours after receipt of reported problem by BME unit
- If Downtime is expected to be more than 24 hours, Tenderer must notify formally to BME unit through email or letter immediately indicating the reason of delay with estimation of:
  A. Estimated time of parts to arrive and
  B. Expected no of days for repair completion
- **The downtime permitted after the first 24 hours with notification, should not be more than 72 working hours or else, a penalty fee of BND$50 per per day per unit will be charge after the 72th downtime hour.**

| APPENDIX A<br>If the available space is not enough, please attach Appendix A according to this template | | | | |
|---|---|---|---|---|
| **#** | **SCOPE TYPE** | **BRAND OFFERED** | **MODEL OFFERED** | **UNIT PRICE** |
| 1 | $0^0$ telescope, 5mm diameter, Working length 290mm | | | BND$ |
| 2 | $0^0$ telescope, 10mm diameter, Working Length 310mm | | | BND$ |
| 3 | $30^0$ telescope, 3.5mm diameter, Working Length 300mm | | | BND$ |
| 4 | Cystoscope set with 30° telescope, 4 mm diameter, working length: 300 mm, with 19.5 Fr sheath, obturator, and Luer-Lock connector | | | BND$ |
| 5 | Mini $0^0$ laparoscope, 5mm, 3.5mm diameter working channel, working Length: 300mm | | | BND$ |
| 6 | Flexible Ureteroscope<br>$0^0$, 7.5Fr Shaft, 3.6Fr working channel, working length: 675mm | | | BND$ |
| 7 | $30^0$ telescope, 5mm, working length: 290mm | | | BND$ |
| 8 | $30^0$ telescope, 5mm, working length: 430mm | | | BND$ |
| 9 | $30^0$ telescope, 10mm, working length: 310mm | | | BND$ |
| 10 | $30^0$ telescope, 10mm, working length: 440mm | | | BND$ |
| 11 | $0^0$ telescope, 10mm, working length: 188mm, 5.1mm working channel, with lateral eyepiece | | | BND$ |
| 12 | ICG Capable, $0^0$ telescope, 4mm, 18cm | | | BND$ |
| 13 | ICG Capable, $30^0$ telescope, 4mm, 18cm | | | BND$ |
| 14 | ICG Capable, $45^0$ telescope, 4mm, 18cm | | | BND$ |
| 15 | Endocameleon scope 15° to $90^0$, 4mm, 18cm | | | BND$ |
| 16 | $0^0$ telescope, 3mm, 15cm | | | BND$ |
| 17 | $0^0$ telescope, 2.7mm, 18cm | | | BND$ |
| 18 | $0^0$ telescope, 2.9mm, 36cm | | | BND$ |
| 19 | $0^0$ telescope, 4mm, 18cm | | | BND$ |
| 20 | $0^0$ telescope, 4mm, 30cm | | | BND$ |

| APPENDIX A<br>If the available space is not enough, please attach Appendix A according to this template | | | | |
|---|---|---|---|---|
| 21 | $30^0$ telescope, 4mm, 18cm | | | BND$ |
| 22 | $45^0$ telescope, 4mm, 18cm | | | BND$ |
| 23 | **Rigid Cysto-Urethroscopy,** PDD-compatible 0° telescope, 4mm, 29cm | | | BND$ |
| 24 | **Rigid Cysto-Urethroscopy**, PDD-compatible 12° telescope, 4mm, 30cm | | | BND$ |
| 25 | **Rigid Cysto-Urethroscopy**, PDD-compatible 30° telescope, 4mm, 30cm | | | BND$ |
| 26 | **Rigid Cysto-Urethroscopy**, PDD-compatible 70° telescope, 4mm, 30cm | | | BND$ |
| 27 | **<u>Rigid Cysto-Urethroscopy Consumables,</u>**<br>1. Cystoscope Sheath, 22 Fr<br>2. Cystoscope Sheath, 20 Fr<br>3. Cystoscope Sheath, 17 Fr<br>4. Telescope Bridge with 2 Lockable channels<br>5. Catheter Deflecting Mechanism, with ALBARRAN lever, with 2 lockable channels<br>6. Foreign Body Forceps, 3 Fr, Flexible, Double action jaws<br>7. Biopsy Forceps, 3 Fr, Flexible<br>8. Scissors, 5 Fr, Flexible<br>9. Button electrode, Unipolar, 3Fr<br>10. Luer-Lock Tube connector | | | 1. BND$<br>2. BND$<br>3. BND$<br>4. BND$<br>5. BND$<br>6. BND$<br>7. BND$<br>8. BND$<br>9. BND$<br>10. BND$ |
| 27 | **Semi Rigid Ureter Renoscope:** 7 Fr distal-tip, 8Fr sheath (1-step 12 Fr), 6°, 43cm, 5Fr working channel | | | BND$ |
| 28 | **Semi Rigid Ureter Renoscope:** 8 Fr distal-tip, 9.5Fr sheath (1-step 12 Fr), 6°, 43cm, 6 Fr working channel | | | BND$ |
| 29 | **Minimally Invasive PCNL Nephroscope Set**<br>• Open-system, vacuum cleaner effect, pressure-controlled<br>• With angled eyepiece, 12 Fr, 12°, length 22cm, 6.7Fr working channel,<br>• Complete with accessories of various sizes for operating sheath, one step dilator, application for sealing and grasping forceps | | | BND$ |
| 30 | Two (2) sets of **Flexible Video Cystoscope set** | | | BND$ |

| NO. | TERMS AND CONDITIONS | VENDOR'S OFFER (PLEASE STATE) |
|---|---|---|
| 1 | Tenderer must be registered with the Ministry of Health. | |
| 2 | **TENDER FORM should be filled** completely including the **USER REQUIREMENT FORM** (if available). Submission of incomplete form **MAY** cause **DISQUALIFICATION OF TENDER.** | |
| 3 | Each tenderer is allowed to quote **ONE BRAND WITH ONE PRICE ONLY** for each item. Submission of more than one brand and price will cause **DISQUALIFICATION OF TENDER.** | |
| 4 | All consumables supplied throughout this tender shall have a minimum expiry date of **twelve (12) months / on delivery** (if applicable).<br>Should the consumables be urgently needed, provision of consumables with expiry date of less than twelve (12) months should be first agreed by the User before delivery is made (if applicable). | |
| 5 | Brochures / catalogues should be submitted / attached with tender document. | |
| 6 | Samples should be submitted together with tender or within fourteen (14 days) of the tender closing dates (if applicable). | |
| 7 | DELIVERY PERIOD:<br>(Please state) Not More Than **90 days** upon confirmation | |
| 8 | PRICE VALIDITY:<br>The quotation shall remain valid for **12 MONTHS** from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period.<br>The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s). | |
| 9 | The equipment supplied must be newly manufactured, unused, and in its original, sealed packaging. The equipment must not be previously owned, refurbished, or reconditioned in any form.<br>The vendor is required to provide proof of manufacture date confirming the equipment is new. | |

1. We offer and undertake on your acceptance of our Tender to provide the above mentioned services in accordance with your Invitation To Tender.

2. Our Tender is fully consistent with and does no contradict or derogate from anything in your Invitation To Tender. We have not qualified or changed any of the provisions of your Invitation To Tender.

3. OUR OFFER IS VALID FOR **TWELVE (12)** CALENDAR MONTHS FROM THE TENDER CLOSING DATE.

4. When requested by you, we shall extend the validity of this offer.

5. We further undertake to give you any further information which you may require.

Dated this_____day of_____, _____

_____ Tenderer's official stamp

**Signature of authorised officer of Tenderer**
Name:
Designation: