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| Ministry of Health **PRINCE HAMAZA HOSPITAL**  **Technical Specifications**  **Item description:**Endoscopic Bronchoscopy Ultrasound System  **Qty. :( 1 )** |

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| Bidder Offer | Min MOH Requirement | **Technical Specifications** | **No.** |
|  | Please specify manufacturer and country of origin and country of manufacture | Manufacturer | 1. |
|  | Please specify model number of the offered equipment | Model Number | 2. |
|  | FDA approval or CE marking | Safety standard | 3. |
|  | Digital camera controller  Light source  TV monitor  Work station trolley | **Composition :** | 4. |
|  | 1. Compact design 2. Digital signal processing , high definition (1200 x 1024) min. 3. Automatic gain control 4. Contrast control 5. Freeze option 6. Image size control 7. Patient database 8. Doctor database 9. Image enhancement of mucosal and vessels using methods like NBI or BLI or OE I-SCAN 10. Control keyboard 11. Outputs RGB , Y/C 12. Digital outputs :DVI , HD SDI 13. 220V/50 Hz | **Digital camera controller :**  (SEPARATE PRICE ) | 5. |

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| Bidder Offer | Min MOH Requirement | **Technical Specifications** | **No.** |
|  | 1. Separate or built in controller 2. Day light illumination (Xenon or LED) 3. Intensity control 0 up to 100% (continuous is preferred) 4. Backup lamp (for xenon only) 5. One spare main lamp (for xenon only ) 6. Illumination 6000 K Approx. 7. Lamp life counter or indicator (for xenon only ) 8. 220 V /50Hz | **Light source :**  (SEPARATE PRICE) | 6. |
|  | 1. 24" min. LCD 2. Ultra high resolution 3. Inputs. RGB, Y/C , DVI and HD SDI 4. Color system PAL 5. Brightness and contrast control 6. 220 V /50Hz | **Monitor :**  (SEPARATE PRICE) | 7. |
|  | Compact ultrasound dedicates for GI and EBUS  Image examination modes:  1. B,M mode  2. Doppler mode  3. Biplane mode  4. Tissue Doppler mode  5. Oblique B- mode image  6. Gain adjustment  7. Biopsy guideline  8. Color flow mapping function  9. Real time tissue electrography 3D image | **Ultrasound machine** | 8. |
|  | 1. Field of viewing : (80 -140) degree 2. Direction of view : (35) degree min. 3. Depth of field : (2- 50 ) mim. 4. Working length : 600 min. 5. Scanning angle : (120-150 )   degree   1. Insertion tube : ( 6.5 approx) 2. Distal outer Insertion tube diameter : compatible with insertion tube. 3. Angulation up (min 120) degree   Down (90-150) degree  9- : right (90-120) degree approx..   1. - : left (90-120) degree approx.. 2. Scanning method :convex type   12-Acoustic frequency ( 5-13MHZ) | **Curved Linear Endoscopic ultrasound (convex)** | 9. |
|  | 1. Viewing direction : (10-45)degree approx.. 2. View angle : (80-120)degree 3. Observation range : (2mm-100mm) 4. Working length (600mm-610mm) approx.. 5. Working channel ( compatible with system ) 6. Number of light ( 2) | **EBUS** | 10. |
|  | Include for all channels  - Mobile on castors with 4 brakes  - Power box for 6 power inlets min | **Working station trolley**  (SEPARATE PRICE) | 11. |
|  | Compatible with all models | **Leakage tester** | 12. |
|  | - Latest model should be presented for all scopes and machines | **Model** | 13. |
|  | 220-240v , 50/60 Hz | **Power supply** | 14. |