

AMENDMENT No - IX

Dated 14.06.2016

Subject: Amendment to the tender Enquiry Document

Ref: Tender Enquiry No.: HSCC/SJH/Med. Eqpt./15 dated 08.04.2016

Due to inadequate response, the bid submission date for Item No. 1, 2, 3, 4, 5, 6, 7, 10, 13 & 14 is extended to 22.6.2016.

TECHNICAL SPECIFICATION AMENDMENT

Item No. 7

Revised Amended Specification based on pre bid queries
Endo-Bronchial Ultrasound System (EBUS)

System Includes:

I. Ultrasonic Broncho fiber videoscope (for EBUS-TBNA)

II. Ultrasound Processor with Colour Doppler function

III. Video Processor & Light source

IV. High resolution Monitor

Specifications:

Ultrasonic Brocho fiber videoscope (for EBUS-TBNA)

- Special Ultrasonic Scope with detachable ultrasound cable
- Thin dia-transducer for ease of insertion
- Fully immersible in disinfection solution
- Electronic curved linear array scanning

1.1 Amended as: - Field of view	80° and above (at least 35° forward oblique)
1.2 Depth of field	Approximately 2-50 mm or better
1.3 Distal End dia	6.9mm or less
1.4 Rigid distal width	Probe not more than 6.5 x 7.0 mm Optic not more than 7.5 mm
1.5 Insertion tube diameter	6.5 mm or less
1.6 Instrument channel width	At least 2 mm
1.7 Working length	At least 600 mm
1.8 Total length	Not more than 900 mm
1.9 Acoustic frequency	5-10 MHz switchable
1.10 Tip bending Range	Up to 120 Down 90 degree or more
1.11 Scan Direction	Longitudinal
1.12 Scan System	Convex
1.13 Amended as Scan Angle	65° or more

2. Digital Color Video Processor

- 2.1 **Amended as:-** Single CCD color, high resolution HDTV & narrow board imaging compatibility / I scan
- 2.2 **Amended as:** -xenon lamp 300 watts
- 2.3 Video output – 2 RGBs connectors, 2 Y/Connectors, 1 composite video connector at least
- 2.4 printer control connector, 2 external device control connectors
- 2.5 serial connector
- 2.6 Power consumption 230V
- 2.7 Weight – preferably less than 20 kg.
- 2.8 Should be controlled from the front, keyboard or endoscopy remote switches
- 2.9 Should be capable of white balance & adjustment, have provision for standard color change, adjustment automatic gain control (AGC), image enhancement, selection etc.
- 2.10 **New Point Added:** Video Endoscopy processor should be latest and high end.

3. Monitor

- 3.1 **Amended as:** - 21” High resolution LCD or higher (LED) color monitor compatible with processor with full range of colors & inputs including viewing angle as needed for proper functioning
- 3.2 Power consumption 230V

4. **Amended as:** Ultrasound Color Doppler

- 4.1 Compatible with the above EBUS puncture scope & radial Probes
 - 4.2 Real time 3D image
 - 4.3 Omni directional M-mode, B-mode and Doppler mode
 - 4.4 Hi support-automatically optimize the B-mode and Doppler image parameters (gain, baseline, PRF etc.)
 - 4.5 Picture in picture for both ultrasound and endoscopic image simultaneously
 - 4.6 **Point Deleted:** - High definition dynamic tissue harmonic imaging.
 - 4.7 High resolution imaging
 - 4.8 Ergonomic operation keyboard
 - 4.9 User programmable calculation package
 - 4.10 Annotation, arrow mark and point display
 - 4.11 Water proof remote control
 - 4.12 **Point Added :** Ultrasound processor must have elastography technology (features)
- The whole system should function on 50Hz / 220VAC

5. Essential Accessories

- 5.1 UPS for backup of the whole system including ultrasound generator
- 5.2 Mobile trolley to mount the EBUS system and ultrasound
- 5.3 All other essentials / accessories required to make the machine function optimally
- 5.4 Recording System for review & publication
- 5.5. **Point Added:** At least 100 Needle and balloon

