



Running Contract Details	
Equipment Name	Endo Bronchial Ultrasound (EBUS)
Running Contract Valid Till	15-04-2024
Tender Ref No	KMSCL/EP/T430(R)/1167/2021
Tendered Quantity	3
Supplier Name	M/s Fuji film India Private Limited
GST No	32AABCF1594J1ZP
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
Fujifilm India Private Limited 6th Floor Prestige Palladium Bayan S.No-43/1(Old No.12) Door Nos:129 to 140 Greams Road Nungambakkam Division Egmore Chennai-600006	Contact Person	Rahul Kumar Dereball, S.Ayyappan
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Item-wise Price Details							
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total			
1	Endo Bronchial Ultrasound Machine system with all accessories mentioned in the specifications except the following items <i>Model & Make : EB-530US</i>	7935191.04 Incl.GST :12%	585220.34	8520411.38			
2	Ultrasonic Probe (Radial) <i>Model & Make : SP-900 & PB2020M</i>	248614.24 Incl.GST :12%	18335.3	266949.54			
3	Video Bronchoscope with High Definition Video Processor <i>Model & Make : VP-3500HD</i>	2563161.44 Incl.GST :12%	189033.16	2752194.6			
4	Monitor	245691.34 Incl.GST :18%	17198.39	262889.73			
		10992658.06	809787.19	11802445.25			
Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Endo Bronchial Ultrasound Machine system with all accessories mentioned in the specifications except the following items							
Labour	1,42,256.00	1,42,256.00	1,42,256.00	1,42,256.00	1,42,256.00	1,42,256.00	1,42,256.00
Comprehensive	4,74,186.00	4,74,186.00	4,74,186.00	4,74,186.00	4,74,186.00	4,74,186.00	4,74,186.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender document).
2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :Endo Bronchial Ultrasound Machine system with all accessories mentioned in the specifications except the following items

I. It should be a system for Endo bronchial Ultrasound Scope (EBUS) Linear & Radial in single compact ultrasound processor with detachable ultrasound cable compatible with both EUS & EBUS with ultra slim Bronchoscope having real time opto digital technology for Radial EBUS

1. 1.Video Processor

- a. It should be CE certified along with declaration of conformity or US FDA APPROVED
- b. It should produce high-definition resolution output
- c. It should have HD imaging capacity Digital output (HD-SDI/ DVI output) to reproduce high-definition images /video
- d. It should be compact, lightweight, and ergonomically designed
- e. It should have automatic white balance option, offer picture in picture function for side-by-side view of endoscopic and ultrasonic image, Pre- freeze to select the clearest still image automatically and noise reduction technology
- f. It should have 1 x to 1.5 X zoom function
- g. The output must be DVI / HD-SDI Both to reproduce high-definition images.
- h. It should be equipped with special detection technology for detailed observation by enhancing visibility of bold capillaries or mucosa (REAL TIME NBI / BLI/LCI/ Iscan OE/FICE)
- i. Should contain portable memory (minimum 2 GB) & USB Slot for image recording and minimum 1GB internal buffer memory of processor
- j. The output must be DVI / HD-SDI Both to reproduce high-definition images
- k. Processor should have compatibility with Radial EBUS,Adult or Paediatric Bronchoscope/ Semi Rigidthoracoscope/ Ultra-Thin bronchoscopes (Sizes 2.8 mm,2mm, 1.2mm & 1.7mm Sizes) forfuture addition to platform

1. 2.Light Source

- a. Should offer Xenon light source 300/ 150 Watts with at least 500 hours life with special Detection modes such as NBI/BLI/ LCI / I-SCAN OE/ FICE
- b. Should have resolution up to 1280x 1024 pixels or above

- c. Should have color correction function
- d. Light source should have automatic manual brightness control
- e. Processor & light source should have ultrasound endoscopes compatibility.
- f. It should have emergency standby lamp and should glow in the event of failure of primary lamp

1. 3.High-definition LCD monitor

- a. It should have provision for accepting DVI- D, SDI & HD, RGB & S video, and composite video signal inputs with 24 or more inch full HD display offering 1920
- b. X 1080 image resolution
- c. It should be LCD With IPS panel technology with LED Back light

1. Endo bronchial Ultrasound Scope – Linear

- a. It should be a HD/ hybridEBUS scope for bronchoscopy with attached ultrasound transducer
- b. It should offer detachable/ integrated ultrasound cable & should be fully immersible in disinfection solution for easy handling, cleaning, disinfection & to reduce accidental damage to scopeIt should have a minimum upward angulation range of 130 - 160 degree for improved accessibility to lymph nodes
- c. It should have a minimum upward angulation range of 130 or more degree for improved accessibility to lymph nodes
- d. It should offer a thin diameter- transducer for ease of insertion, length of transducer tip should also be short
- e. It should have a working length of 600 mm approx.
- f. It should have insertion tube diameter of 6.2 mm- 6.5mm
- g. It should have distal diameter of 6.5- 6.9 mm and preferably smaller
- h. The minimal instrument channel should be 2 mm or more offering better suction
- i. It Should have a scanning Range of 65 Degree or more and Forward oblique angle of 10 Degree or more
- j. It should have acoustic frequency of 5-12 MHz & should offer 20 MHz for connection to Radial EBUS& Mechanical probe
- k. It should offer electronic curved linear array scanningmethod with a viewing direction less than 25 degree forward oblique
- l. It should be designed for balloon method and direct contact method
- m. It should have field of view 80 degree or more and offer a depth of field of 3 - 50mm

1. 4.Endoscopic Ultrasound Processor

- a. It should be a compact US processor that can be stationed at the same trolley with detachable/ integrated US cable for proper sterilisation and should be compatible for EUS and EBUS.
- b. It should offer both mechanical & electronic scanning in the ultrasoundprocessor (which needs to be demonstrated during demo)
- c. It should have B mode with Picture in pictureto simultaneously view both images on same screen
- d. It should have the following modes: Color Flow mode, Power Flow Mode, H-Flow / F Flow mode, PW Mode
- e. It should offer guide sheath compatibility forradial EBUS
- f. It should have ergonomic keyboard
- g. It should have dual display of doppler and B mode images on same screen
- h. Should have facility to measure distance between two points defined by 4 or more symbols
- i. Should have facility to connect radial probe driver unit to connect radial probesfor accessing peripheral lung biopsy's
- j. The same/ differentConvex EBUS ultrasound processor should be compatible with Radial EBUS all in one unit
- k. It should offer 65 degree scanning range
- l. It should have minimum 1GB storage facility of still images & should be with Cine Memory: 150 frames or more
- m. It should be possible to export the images to external device

1. 5.Ultrasonic Radial probe with Balloon contact method

- a. It should be compatible with Bronchoscope channel diameter's1.7mm, 2mm, 2.2mm & 2.8mm
- b. The Probe should be combined with dedicated Balloon sheath

- c. Display Mode should be B Mode
- d. Should offer Mechanical Radial Scanning Method Integrated on the compact Ultrasound processor
- e. Should offer 360° Circumferential scanning Perpendicular to Probe Insertion Direction
- f. Should offer Ultrasonic Frequency range of 12/ 20/30 MHz
- g. Working Length should be 2050 - 2150 mm
- h. Total Length should be 2140 mm- 2225 mm
- i. Insertion Tube should be 1.4mm 2.5mm
- j. Max Diameter should be 1.8/1.9 mm to 2.6mm

1. 6.Ultra Slim Video Bronchoscope for Radial EBUS

- a). The scope should be slim diameter scope with 2mm instrument channel
 - 1. It should have CCD with real time optical image enhancement technology that improves th visualization of vessels on the mucosal surface (time Opto Digital technologywith NBI / BLI / ISCAN OE/ FICE)
 - 2. The insertion tube can be rotated left or right up to 120 degrees for ease of use, handling, and placement of Endo Therapy accessories
- d) Should offer electronic magnification of 1.2x and 1.5x
- e). It Should have 110° Field of View
 - 1. It should have Depth of Field 3-50 mm for better close vision diagnosis
 - 2. It should offer a Tip Deflection bending of Up 180° or above& down 130°
- h) Distal Diameter should be in the range of 4 – 4.9mm
- i) Insertion Tube Diameter should be in the range of 3.8- 4.8mm
should be in the range of 1.7mm - 2.0mm
- j) Minimum Instrument channel
- k). It should have minimum working length of 600mm
Of remote-control functions on control body.
and pressure regulation through light source's air pump.
- l). It should offer Four or more no.
- m). It Compatible with leakage testing device with its air flow
- n) It should be compatible with Laser and Electrocautery
- o) It should offer 210 degree up angulation to access upper lobe bronchi to access difficult areas such as B1, B2, B6 and reach target in lung periphery
- p). It should be easy to connect and dismantle the scope with one touch connection Also allowing easy CDS Cleaning by fully submerging in detergent
- q). Special Detection mode for observation of mucosal surface: Opto-digital real time scanning Real time NBI/BLI/ISCAN OE/ FICE should be available
- r). Should provide reusable biopsy forceps preferably from the same companyor from a reputed manufacturer

1. 7.Additional Related Accessories& Requirements:

- a. Should be supplied with suitable trolley with Scope hanger
- b. Trolley should have at least 5 power sockets to connect the processor, monitor etc.
- c. Should provide Water Leakage Tester - 1 Nos
- d. Should provide 21& 22 guage TBNA Needles preferably from the same company or from a reputed manufacturer - 5 Nos Each
- f. Should be provided with HD Quality image capture software for patient reporting
- g. Light source cleaning kit to be provided
- h. 2KV Servo with Isolation transformer to be provided
- i. Should offer EBUS Balloons preferably from the same company Or US FDA Approved
- j. Participating companies should have service facility in Kerala and good installation base in reputed institutions

- k. All above technical & clinical compliance of quoted models to be demonstrated by all participating companies
- l. Technical specification compliance document to be submitted with YES/ NO with detailed remarks on it
- m. Company should provide loaner facility in case of break down and should have capability to get the quoted equipment repaired within India.