

TECHNICAL SPECIFICATIONS FOR ENDOSCOPIC ULTRASOUND SYSTEM:

ULTRASONIC ENDSCOPE (LINEAR/ THERAPEUTIC):

1. Should have a 150-degree or more electrical curved linear scanning range.
2. Direction of view should be 55 degrees Forward oblique or less
3. Field of view should be around 100 degrees or more.
4. Should have the feature of special light technology FICE/NBI/I-Scan.
5. Should have EUS images with four or more selectable frequencies between 5-12 MHZ or better.
6. Should have Colour Doppler, Power Doppler for effective confirmation of blood flow, Pulse Wave, B Mode to see the volume & velocity, etc.
7. Should have lens cleaning function for keeping the endoscopic field of view clear.
8. Depth of field should be 3 to 100 mm or better.
9. Insertion tube outer diameter should be around 11.8-12.6 mm.
10. Distal end should have a short rigid portion for less trauma to the patient with a diameter between 12.4 -14 mm.
11. Should have compound harmonics imaging for visualizing clear images in deep-lying areas while maintaining high resolution in shallow lying areas.
12. Angulation Capability should be – Up/Down – 130/90 Degree, Right/Left 90/90 degrees or better.
13. Instrument channel diameter should be around 3.8 mm or more.
14. Videoscope should have FNA (therapeutic) capability.
15. Would prefer to have a Symmetric Layout of the US Transducer - biopsy channel and camera, to ensure accuracy while taking FNAC.
16. EUS Scope should be fully immersible for thorough cleaning.

Ultrasonic Processor with Doppler Function:

1. Compact & easily transportable one Cart system/unit, ease to move on the trolley.
2. Ultrasonic processor should provide Colour Doppler, Power Doppler for effective confirmation of blood flow, Pulse Wave, B Mode to see the volume & velocity, etc.
3. Should have Generated frequency range: 5 to 12 Mhz.

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base

4. Should have Tissue Harmonic & Compound Harmonic function.
5. Should have Needle Guide function to help precise targeting with minimum passes.
6. System should be equipped with direct image storage during examination on Pen Drive.
7. Should have the capacity to record at least 30 secs to 1-minute Video with its retrieval.
8. Dedicated and user-friendly keyboard with Touchpad keyboard or trackball option.
9. Cine Memory/memory review: 350 or more frames.
10. Facility to play video of cine memory.
11. Retrieve images to the USB port to record.
12. GAIN, Contrast, Dynamic Range, and STC functions for adjustment of the image.
13. Optimization functions for auto-setting of the image by sensing the nature of tissue.
14. Processor should be compatible with the video processor and light source quoted.
15. System should be upgradable/compatible with mechanical scanning/radial probe or Radial EUS scope for future upgrades.

Full HD Video Processor Module:

1. Equipped with high-resolution HDTV Imaging capacity.
2. Should be compatible with Analog and Digital output with 1920X1080P output.
3. Minimum 2 HDTV image output(HD-SDI/DVI/HDTV) for HD image transfer.
4. Integrated/Separate, lightweight, and ergonomically designed.
5. Should have Special light functions such as FICE/BLI/NBI/I-SCAN to see the vascular/mucosal pattern.
6. Should have LCI (Linked Colour imaging) /RDI & TXI – Advance Image Enhancement Endoscopy facility or equivalent.
7. System should support Close focus up to 1.5 mm to get an enhanced image for diagnosis.
8. System should have Edge & Structure enhancement.
9. No white balance compulsion would be added advantage.
10. Recording of both still & moving images
11. Portable Memory & USB Slot for image recording with 4 GB internal memory and external USB (8GB) Automatic IRIS control & automatic white balance
12. Automatic IRIS control & automatic white balance

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13. Should be compatible with Optical zoom, Enteroscopy scopes, and EUS system for future upgradation.
14. Electronic Zoom up to 2X.
15. Equipped with memory backup for settings & Lithium battery.

Light Source:

1. Long life Multi LED light source (3 or more LED bulbs) with a minimum lamp life of 6000 hours, & light intensity equivalent to Xenon 300 watt.
2. Backlit front panel indicators.
3. Equipped with automatic light adjustment forced air cooling, regulated air feeding pump, and fan with low noise.
4. Compatible with waterproof one-touch connector
5. Compact & lightweight design weight up to 15 Kg.
6. Integrated/Separate, lightweight, and ergonomically designed.

Medical Grade Monitor

26" or more medical grade monitor compatible with the above-quoted system.

The system should be supplied with the below-mentioned items -

- Compatible trolley to mount the system
- HD Reporting and Reporting Software
- Computer system with i5 processor, 8GB RAM & 1 TB HDD or higher
- Laser color printer.
- EUS Needle (10 No.) Same OEM or equivalent
- Mouth Guard (2No.)
- Company should have a good service structure and facility for repairing scopes in India.
- Appropriate recording cables and accessories should be in the scope of vendors only for making it fully functional.

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Conditions for tenderers:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Office Memorandum dated 21, June 2022 Order No. F.4/1/2022-PPD (Pt.) dated 15.05.2020 & 28.05.2020 regarding Global Tender Enquiry Dated 21.06.2022, The revision of (a.) Public Procurement Order No P-45021/2/2017-B-E-II Dated 15.06.2017 as amended by (b.) Order No P-45021/2/2017 – B-E-II Dated 28.05.2018 and (c.) order No. P-45021/2/2017-BE-II dated 29.05.2019, hereby retrained leading medical institutions for freely access the specialized medical device technology due to its unavailability with Indian manufacturers, used for the purpose of clinical research in specialized surgical procedures and their outcomes, along with treatment of patient disease. List of 371 Medical Devices / Equipment exempted from the instruction of Department of Expenditure (DOE) issued vide Oms No. F.12/17/2019-PPD dated 15.05.2020 & 28.05.2020 regarding Global Tender Enquiry.
6. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
7. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
8. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
9. Offered Equipment should have a strong Government Installation base.

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10. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
11. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
12. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
13. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
14. Company should quote their latest model and need to provide an affidavit for the same.
15. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.
16. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
17. Any bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (i.e., Registration certificate issued by the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade- DPIIT after October 2020). If any such bidder is not registered with DPIIT they will be liable for technical disqualification.
18. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
19. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the

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purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected.
(Part of technical bid).

20. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6th, 7th, 8th, 9th and 10th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6th to 10th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.



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