

## SPECIFICATIONS FOR ENDO VISION SET

Endovision imaging system will consist of the following items:

- 1) Full DCI 4K High-Definition Video Image Processor
- 2) Powerful 300W Xenon light source with light cable
- 3) 4K Camera Head with 3 scopes
- 4) Full High-Definition Recorder

### **1. DCI 4K High Definition Video Image Processor (Should have the following specifications)**

- 4K High-Definition Processor should have native resolution DCI 4K imaging. System should also provide 3840x2160 or 1920x1080 should also be selectable. (Should provide both 4K and Full HD Output)
- It should have touch panel operation for easy control
- Rich color pickup – system should provide colour gamut of ITU BT2020 and should also provide option of ITU – BT709
- Should have AE (Automatic Exposure).
- Should provide atleast 10 individual user presets.
- The system setting, colour tone, Colour mode, contrast, enhancement etc should be held in memory even after video system processor is switched off.
- Should have compatibility for selecting 3G-SDI or HD-SDI signal output (transmission method)
- Should be compatible to 4K Recording system.

### **2. Powerful 300-watt Xenon light source. (Should have following specifications)**

- A powerful 300-watt Xenon lamp with emergency lamp facility.
- Automatically adjusts light intensity to achieve ideal illumination.
- Built in special filter for early cancer detection (preferable)
- Backlight front panel indicators.
- Optical image enhancement to view the capillary vessels and fine patterns in the superficial layer mucosa for early detection of recurrence of lesions.
- Automatic switching to emergency lamp
- Should provide one light guide cable

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**3. DCI 4K Camera Head (Should have following specifications)**

- The camera head should incorporate optical fiber transmission providing DCI 4K resolution through thin cable.
- Should have CCD/CMOS sensor providing high sensitivity for clear image.
- Should provide one touch autofocus function.
- Should provide electronic zoom function (button controlled)- x 2.0 electronic zooming in 6 steps (x1.0 1.2, x1.4, x1.6, x1.8, x2.0)
- Should be immersible in disinfectant solution and sterilisation through Autoclavable/Sterrad.
- Should have focal length  $f=23.5\text{mm}$
- Should provide compatible scopes – 0 degrees (10mm and 5 mm), 30 degrees (10mm)

**4. High-Definition Recording System: (Should have following specifications) – preferably of same manufacturer's make or of a reputed company**

- A high-definition video recorder system preferably with 2 channel Simultaneous recording facility.
- Should be able to record a full HD imaging recording.
- Should have internal hard disk drive of 500GB or more.
- The recorder should have two inputs of DVI, HD-SDI, Composite video & S-Video inputs for recording.
- Should support file formats for
  - a) Images: Bitmap (BMP), JPEG, Tagged image file format (TIFF)
  - b) Videos: MPEG-4 AVC/H.264

**Conditions for tender:**

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.

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5. 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.
6. The supplied equipment to be covered under a 5years comprehensive warranty and post-completion 5 years paid CAMC, in which all accidental damages/ breakage, leakage/ punctures, manufacturing defects and wear and tear of all sorts will be covered.
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.
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.

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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 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., 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> 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 6<sup>th</sup> to 10<sup>th</sup> 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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