



Notice Inviting e-Tender

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Procurement of Endoscopic Camera with Light Source & Monitor
for the Dept. of Urology, IPGME&R-SSKM Hospital
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-367/2025

Dated-06.05.2025

Amendment-I

Revised Technical Specification **Endoscopic Camera with Light Source & Monitor**

A 4K-3D Multispecialty platform should consist of the following:

1. LCD 4K-3D Monitor.
 2. 4K-3D-Infrared Processor
 3. LED Light Source
 4. Autoclavable/Seath Autoclavable 4K- Infrared Camera head
 5. ULTRA 4K-INFRARED Telescope
 6. Light Guide Cable/ Integrated (separate light guide cable should be provided if integrated)
 7. Trolley as marketed by OEM
 8. Insufflator High Flow 40 Ltr. or More
 9. Chip on tip 3D Video Scope:
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1. LCD 4K- 3D Monitor (31-32 inches): 1No
 - a. Should have LCD/LED backlit monitor with capability to show UHD definition resolution of 3840x2160in 2D as well as 3D.
 - b. Monitor should have 16:9 aspect Ratio.
 - c. Should provide wide color gamut – BT2020.
 - d. Should have multi-image display format – Rotation Image, Side-by-side, Picture-in-picture and Picture-out-picture and flip Pattern to rotate the image.
 - e. Should have various 4K& HD input/output terminals, including 3G/HD/SD SDI, DVI-D, BNC(x5) and HDMI.
 - f. The monitor should have Opti-contrast Panel providing higher contrast image and less color blurring.

- g. Should be medical grade and from same OEM.

2. 4K-3D-INFRARED Video Processor: 1No

- a. Should be 4K with INFRARED and the same system should be ready for 3D observation.
- b. Should have 10 or more customizable user presets for different specialties.
- c. Should have a Touch panel control with customizable touch buttons.
- d. Should have facility for color customization such to support a range of procedures.
- e. Should have selectable INFRARED gain feature to adjust the INFRARED Light intensity when working with INFRARED overlay Mode.
- f. Should have Digital signal outputs for 4K, 3D & HD.
 - i. 4K outputs – Quad SDI / 12GSDI – Minimum 2 outputs
 - ii. 3D/HD outputs – 3G-SDI / HD-SDI / DVI – Minimum 2 outputs
- g. Should have facility to switch the recording method of video signal output to the recording device (HD-SDI Recording method & 3G-SDI Recording method)
- h. In built recording system/external recording system as marketed by the OEM should be supplied with the machine. Additional more than 2 TB hard disk should be supplied with the machine.
- i. Should have facility to show various observation modes other than WL such as specialobservation mode of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions, Special observation mode to differentiate between fat and normal tissue by enhancing the fat tissue color and its vascularity, 3D Observation Mode, INFRARED Observation Mode (3 different Modes)
- j. Should have USB slot for capturing images/videos.
- k. Should be CF type to prevent electric shocks.
- l. Should have facilities for automatic light control.
- m. Should have electronic zoom option up to 2.0x in 4K.
- n. Should be compatible with 4K-IR, 3D, HD/HD-IRCamera heads & Flexible Videoscopes without additional hardwareprocedures and those flexible scopes can be repairable for any kind of damages and the repair centre should be in India.
- o. Should have the facility to customize & simultaneously visualize WL & Infrared modes in PIP/ POP

3. LED Light Source: 1No

- a. Should be able to provide WL & INFRARED light visualization in Full Color overlay mode,
- b. Should have a lifeminimum of 5 years or 30,000 working hours.
- c. Should have facility to select various fluorescence / INFRARED modes such as INFRARED only. Magenta + IR, Full color overlay INFRARED
- d. Should be provided with a compatible light guide cable.
- e. Light guide cable should be RoHS complaint.

4. 4K-INFRARED Camera Head: 1No

- a. Should be CMOS chip providing 4K resolution in 4K Camera Head
- b. Should have 3 or more programmable head buttons with the facility to assign more than 2 functions on a single button.

- c. Should have Autofocus (AF), Continuous Autofocus Function (C-AF) & Manual / Power Focus facility.
- d. Should provide True 4K & Overlay INFRARED image.
- e. Should be autoclavable Type.
- f. Should be ergonomic, light weight with max 270 gms.
- g. Should have Extended Depth of Field (EDOF) Feature to broaden the focus area.
- h. Should have focal length of 19.7 mm or more.
- i. Should be compatible with all sizes of telescopes.
- j. Should be CF Type for patient safety.

5. ULTRA 4K-INFRARED Telescopes: 1No

- a. 10mm – DOV: 30 degrees. FOV: 88 degrees, Working Length: 315 mm.
- b. Telescopes should incorporate ED Glass Lenses for High resolution Imaging & less Chromatic aberration.
- c. Completely distortion free.
- d. Should be able to provide 4K WL & INFRARED image.
- e. Homogenous Light distribution in the peripheral region.
- f. Eyepiece type connection – for universal compatibility.
- g. Large field of view and depth of focus.
- h. Fully Autoclavable type.

6. Light Guide Cable: 1No

- It should have High resistance protection against mechanical and thermal stress.
- It should have a diameter of 4.0mm or more with high fiber density.
- It should have Small bending radius for comfortable use.
- It should be 3 Meter or more in Length.

7. Trolley OEM: A good Quality Trolley should be supplied to accommodate all equipment's- 1No

8. High Flow Co2 Gas 40L/min or more Insufflator: 1No

- Should have following specifications:
- Should be digital, microprocessor controlled & automatic type.
- Should have Large digital display on front panel Set Pressure, Actual Pressure, Flow Rate & Volume
- Should have small cavity mode for EVH & Pediatric surgery.
- Should have Powerful Insufflation with flow rate of 40 L/Min or more.
- Should have alarms for over pressure, Tube Clogging & insufficient supply of gas.
- Need to provide a Pin type CO2 hose plug which can be connected to Pin type CO2 cylinders

9. Chip on tip 3D Video Scope: - 1 No.

- Should be Flexi/Rigid (0°) tip 3D scope & this should be compatible with the system.
- The 3D scope should be of 10 mm in diameter with Dual Lens Chip on tip Technology.
- 3D telescope should have Joystick function for moving the tip in all the directions.
- 3D system should have polarizing system for Image Reproduction, for using economical eye-ware for flicker-free and bright image.
- Easy switching between 2D and 3D modes.
- Should have facility for automatic brightness control for best distribution of light evenly over the image field.

1. All items other than specifically mentioned should be from the same OEM.
2. Trolley should be from same OEM or marketed by same OEM
3. Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable.
4. The principal company should have repair center in India.