SPECIFICATIONS FOR HIGH-END LAPAROSCOPIC SYSTEM 4K (UHD) LAPAROSCOPIC SURGERY SET

- 1. True 4K Ultra-High-Definition (UHD) Camera System with IR/ ICG/ NIR
- a. Must have a resolution of 3840 X 2160 pixels and progressive scan to guarantee a genuine 4 K (UHD) picture.
- b. Must have progressive scan technology.
- c. The system must have the 4K outputs (12G-SDI and Display Port 1.2).
- d. Two systems must be IR/ ICG/ NIR systems for fluorescence-assisted surgery.
- 2. 4K Camera Head with IR/ ICG/ NIR
- a. Must have a resolution of 3840 X 2160 pixels and progressive scan to guarantee a genuine 4K (UHD) picture.
- b. The system should have the facility of at least 3x Digital Zoom Lens.
- c. Must be compatible with all quoted standard Telescopes or ICG/ NIR Telescopes.
- d. Two camera heads out of three must be ICG/ NIR compatible.
- 3. True 4K Ultra-High-Definition (UHD) Monitor
- a. Minimum size of 55"
- b. Must have an effective resolution of 3840 X 2160 Pixels to display pure 4K Images
- c. The system must have the 4K outputs and inputs (12G-SDI and Display Port 1.2) to guarantee a genuine 4K (UHD) picture.
- 4. Ultra-High-Definition (UHD)/ Full HD Documentation and Archiving System
- a. Must be able to record videos and images in pure 4K (UHD) Format of 3840 X 2160
 Pixels or Full HD format of 1920 X 1080 Pixels
- b. State-of-the-art user-friendly medical grade system (certified to be used in OT) should be offered.
- c. User should have full control of the system from the sterile field via camera head buttons.
- d. Parallel (synchronic or independent) recording of two image sources.
- e. Must have Internal memory of at least 2 TB
- f. Playback of HD and/or 4K content accordingly.
- g. Should have a keyboard for entering patient data.
- 5. Light Source with ICG / NIR Mode for Fluorescence Assisted Laparoscopic

Surgery

a. High Intensity (6000K) Light Source

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- b. Must be Xenon 300 Watts or High Intensity LED Light Source with IR/ ICG/ NIR technology.
- c. 2 Nos. Thick Light Cable must be provided

6. 4K Telescopes

- a. 1 Nos. 0 Degree, 10mm Telescope with ICG/ NIR Mode for Fluorescence Assisted Laparoscopic Surgery
- b. 1 Nos. 30 Degree, 10mm Telescope with ICG/ NIR Mode for Fluorescence Assisted
 Laparoscopic Surgery
- c. 1 Nos. 30 Degree, 5mm Telescope with ICG/ NIR Mode for Fluorescence Assisted Laparoscopic Surgery.

7. CO2 Endoflator

- a. At Least 40 Liters or above Capacity with integrated heating and smoke evacuation
- b. Must have a color touch screen for adjustment of all values and parameters.
- c. Must have a digital display for all Preset and real-time values.
- d. Must have an automatic alarm and pressure control system in case of overpressure.

8. Mobile Video cart

- a. Must be from the same manufacturer (local alternates not acceptable).
- b. Must have a minimum of 2-3 shelves and a drawer.
- c. Must have Monitor Arm which can be swiveled in all directions.
- d. Must have an ergonomic design and concealed cable conduits.

Forceps:

- a. All forceps must be 5 mm in diameter and have a length of 35 cms \pm 2 cms unless otherwise mentioned.
- b. All forceps must be fully dismantlable into 3 parts for easy cleaning and disinfection.
- c. Standard law Maryland dissector.
- d. 2×4 tooth grasping forceps.
- e. Atraumatic and fenestrated grasping forceps double action jaw.
- f. Matzebaum curved scissors.
- g. Tooth forceps, tooth type 10 mm diameter.
- h. L-hook, 5 mm, 36 cms.

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- Spatula, 5 mm, 36 cms.
- Unipolar connecting cable.
- k. 5 mm suction irrigation tube.
- Needle holder, 5 mm, 36 cms. Jaw curved left & right (01 Each).
- m. Needle holder, 5 mm, 36 cms. Jaw straight.

Conditions for tenderer:

- 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 have USA FDA and 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. 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 equipment should have a Brand name/ Model Number embossed/etched on the equipment.
- 7. 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.
- 8. Offered Equipment should have a strong Government Installation base.
- 9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
- 10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
- 11. 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

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- breakdown of the unit, failing which attracts penal action as per the decision of institute/hospital.
- 12. 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.
- 13. Company should quote their latest model and need to provide an affidavit for the same.
- 14. 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.
- 15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
- 16. 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.
- 17. 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.
- 18. 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).
- 19. 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.

July

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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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