

ALL INDIA INSTITUTE OF MEDICAL SCIENCES,

STORE SECTION (DO), 1ST FLOOR, ANIMAL HOUSE,

ANSARI NAGAR, NEW DELHI-110 029, INDIA

TENDERENQUIRY DOCUMENT

(Two Bid System for Machinery & Equipments)



शरीरमाद्यं रक्तं धर्मसाधनम्

Advertised Tender Enquiry No.: XX-34/SO(DO)/PCCSM/2026-27/M&E

Brief Description of Goods : Purchase of Portable Point of care Troponin and Cardiac Biomarkers Reader - 02 Nos.

SECTION-I

	<u>ALL INDIA INSTITUTE OF MEDICAL SCIENCES</u> <u>ANSARI NAGAR, NEW DELHI-110 029</u> <u>TENDER ENQUIRY DOCUMENTS (TED)</u>		
Advertised Tender Enquiry No : <u>XX-34/SO(DO)/PCCSM/26-27/M&E</u> On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:			
S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD (in Rs.)
1.	Purchase of Portable Point of care Troponin and Cardiac Biomarkers Reader	02 Nos.	INR Rs. 90,000/-
CRITICAL DATE SHEET			
Published Date & Time		19-05-2026 at 04.00 pm	
Bid Document Download/Sale Start Date		19-05-2026 at 04.00 pm	
Seek Clarification Start Date		19-05-2026 at 04.00 pm	
Seek Clarification End Date		26-05-2026 at 04.00 pm	
Pre Bid Meeting		Already done	
Pre Bid Meeting Place & Address		NA	
Bid Submission Start Date & Time		02-06-2026 at 04.00 pm	
Bid Submission End Date & Time		22-06-2026 (Monday) at 03.00 pm	
Bid Opening Date & Time		23-06-2026 (Tuesday) at 03.00 pm	

Instructions:

1 Bids shall be submitted online only at CPPP website:

<https://eprocure.gov.in/eprocure/app>

2. The Bidder shall download the Tender Enquiry Document directly from the websites <https://eprocure.gov.in/eprocure/app> and shall not tamper/modify it including downloaded Price Bid template in any manner. In case if the same is found to be tempered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.

3. The complete bidding process is online. Bidders should be possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above.

4. Bidders are advised to follow the instructions provided in the "Instructions for Online Bid Submission" in Para No. 11 of GIB of Tender Enquiry Document.

5. Bidders are advised to visit this website regularly to keep themselves updated, for any changes/ modifications in the Tender Enquiry Document.

6. Intending bidder are advised to visit CPPP website <https://eprocure.gov.in/eprocure/app> regularly till closing date of submission of bid, for any corrigendum.

7. The documents to be submitted in their bid may be scanned with 100 dpi with black and white option which helps in fast uploading.

8. The EMD/Bid Security shall be deposited through Bank Guarantee/Demand Draft/FDR drawn in favour of the **AIIMS Main Grant**. The original Earnest Money/Bid Security must be delivered to **Sr. Stores Officer, Store Section (DO), 1st floor, Animal House Building (Near Bio-technology Building) AIIMS, New Delhi-110029** till bid opening date and time as mentioned in "Critical Date Sheet" failing which the bid shall be summarily rejected.

SECTION - VI

LIST OF REQUIREMENTS

Part I

Sl. No.	Name of Equipment	Consignee	Quantity per Deptt. (No.)	Total Quantity per Schedule (No.)	Warranty Period	CAMC period after warranty
1	Portable Point of care Troponin and Cardiac Biomarkers Reader	Department of PCCSM	02	02	02 years	08 years

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:

180 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date by when it is to be delivered at consignee site. Bidders may quote earliest delivery period.

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

180 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Bidders may quote the earliest delivery period).

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Part III: Scope of Incidental Services:

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13.

Part IV: Turnkey Work (if any) as per details in Technical Specification.

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.

Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

Free Delivery at Consignee's Site(s)

b) For Imported goods directly from abroad:

The foreign bidders are required to quote their rates on CIP (Named Port of Destination Basis) giving breakup of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP (Named Port of Destination basis).

Insurance (Local Transportation and Storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Section – VII
TECHNICAL SPECIFICATION AND GENERAL POINTS

Revised Portable Point of Care Troponin and Cardiac Biomarkers Reader – 02 Nos.

Technical specifications:

A. Measuring parameters:

1. TroponinT or I or both – Both quantitative (must) and qualitative (additional and optional) measurement with high sensitivity
Measurement Range: 40- 2000 ng/L
Time for getting results within 20 mins
2. **D-Dimer** - Measuring range- 0.1 to 4.0 µg/ml
3. **NTproBNP**- Measuring range- 60 to 9000 pg/ml

B. Test Measuring Time:-

1. Not more than 20 mins including sample application
2. All test results should be correlated with Fully Automated Lab Analyzer (Documentation should be attached)
3. The tests can be done single strips or may be individual strip for each parameter
4. Strips should not require pre-preparation or pre-warmup
5. Machine should be Portable (weight less than 2 kg)
6. Rechargeable universal battery backup
7. Touch screen facility—mandatory
8. It should have a bar code scanning capability
9. Quality Control: IQC, & liquid control possibility (parameter wise)
10. Should be able to process heparinized arterial/venous whole blood
11. Should have the Possibility of enter Patients ID/Name
12. There should be memory storage of minimum 2000 patient test results and 500 quality control tests
13. The machine and battery should be compatible with Indian electrical standard connections.
14. Automatic power-off to save battery
15. CE, BIS or FDA Approved

Warranty:

- a) As per AIIMS rules and should be quoted with 2-year comprehensive warranty and another 08 years of maintenance warranty (including all spares, batteries, circuit and other accessories). The cost of refilling or providing new Argon cylinder should be quoted separately.

- b) The cost of additional accessories should quoted in the price bid which will be used to calculate L1.
- c) Prices of all the spare/accessories required for maintenance of the equipment should be quoted along with the price bid. If the firm do not provide price of any part/accessories in the price bid the same will be provide free of cost by the company if required.
- d) Company will be responsible to maintain equipment and accessories in working condition irrespective of the cause/reason/conditions/nature for not working of the equipment/accessories. Company will replace all the required parts/spares/accessories, labour/service during WARRANTY/CAMC period without any extra charges/taxes” (including and not limited to physical damage).
- e) In case of any breakdown, fault, repair should be undertaken within 48 hours of receipt of such information. Failure to do so shall make the company liable for a penalty of Rs. 1000/- per day.

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(Two Bid System for Machinery & Equipments)



शरीरमाद्यं रक्तु धर्मसाधनम्

Advertised Tender Enquiry No.: XX-35/SO(DO)/Gynae/2026- 27/M&E

Brief Description of Goods : Purchase of Laparoscopic Surgery Set with High Definition Camera (3D/4K) with accessories – 03 Nos.

SECTION-I



ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110 029
TENDERS ENQUIRY DOCUMENTS (TED)

Advertised Tender Enquiry No : XX-35 / SO(DO) / Gynae / 2026-27 / M&E

On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:

S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD
1.	Purchase of Laparoscopic Surgery Set with High Definition Camera (3D/4K) with accessories	03 Nos.	INR Rs. 18,00,000/-

CRITICAL DATE SHEET

Published Date & Time	21-05-2026 at 06.00 pm
Bid Document Download/Sale Start Date	21-05-2026 at 06.00 pm
Seek Clarification Start Date	21-05-2026 at 06.00 pm
Seek Clarification End Date	28-05-2026 at 04.00 pm
Pre Bid Meeting	02-06-2026 at 03.00 pm
Pre Bid Meeting Place & Address	Room No. 712, 7th Floor, Department of Mother Child Block (MCB), AIIMS New Delhi.
Bid Submission Start Date & Time	12-06-2026 at 04.00 pm
Bid Submission End Date & Time	29-06-2026 (Monday) at 03.00 pm
Bid Opening Date & Time	30-06-2026 (Tuesday) at 03.00 pm

Instructions:

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SECTION - VI

LIST OF REQUIREMENTS

Part I

Sl. No.	Name of Equipment	Consignee	Quantity per Deptt. (No.)	Total Quantity per Schedule (No.)	Warranty Period	CAMC period after warranty
1	Laparoscopic Surgery Set with High Definition Camera (3D/4K) with accessories	Department of Obstetrics and Gynecology	03	03	02 year	08 year

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:

180 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date by when it is to be delivered at consignee site. Bidders may quote earliest delivery period.

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

180 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Bidders may quote the earliest delivery period).

Installation and Commissioning shall be done at the earliest but not later than 45 days of delivery of goods at site or date of handing over the site for installation, whichever is later.

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Part III: Scope of Incidental Services:

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Part IV: Turnkey Work (if any) as per details in Technical Specification.

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.

Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Required Terms of Delivery and Destination.

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Insurance (Local Transportation and Storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Section – VII
TECHNICAL SPECIFICATION AND GENERAL POINTS

Name Of Equipment	Laparoscopic Surgery Set with High-Definition Camera (3D/4K)with Accessories
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Specifications Of Laparoscopy Set

3D Tower: Qty 1

Serial No. Specification for Laparoscopy Tower

1. 4K Resolution Medical Grade Monitor capable of displaying 3D. (55 Inch Monitor or more)–
QTY 1
 - a) ALL in one Medical Grade Monitor capable of displaying:
 - a. 3D in 4K resolution
 - b. 2D in 4K resolution
 - c. 2D in Full HD resolution
 - d. 3D in Full HD resolution
 - b) Resolution of 4096 x 2160 (full 4K)/3840 x 2160 (UHD) pixels in 55" screen for both 3D & 2D images
 - c) LED-backlit with LCD IPS Panel Technology
 - d) Opti-contrast Panel for higher contrast image with less color blurring
 - e) Facility to upscale HD/SD signals to 4K resolution
 - f) 16:9 Aspect Ratio
 - g) Auto-detection of color gamut between BT-709 & BT-2020 for 3D/2D HD & 4K/HD signals
 - h) Support various 3D output formats like 3G(Dual Stream), Line by Line, Side by Side, and Top & Bottom formats
 - i) 3D PIP/POP multi-image display options including two screens with a main 3D/2D and sub-2D picture, or three screens with three 2D pictures. 3D pictures can also be rotated 180 degrees (image flip)
 - j) Input terminals, including BNC(x5)(3G/HD/SD- SDI) DVI-D and HDMI
 - k) Output terminals, including BNC(x5)(3G/HD/SD- SDI) and DVI-D
 - l) Glasses: Should be supplied with lightweight polarized 3D glasses – 20 Nos
Additional 10 nos. of clip-on type glasses for spectacle wearing surgeons
 - m) Should be supplied with its compatible stand for mobile movement in OT.

- 2. 3D 4K Video Camera Processor – qty 1
- a) Processor for following should be quoted.:
 - a. 2-Dimensional endoscopic camera in 4K resolution (3840*2160)
 - b. 3-Dimensional endoscopic camera in 4K resolution (3840 *2160)
 - b) System should have facility for Optical Contrast Differentiation System, and it Should have special filter for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions.3D
 - c) Upgradable Slot to connect link for Video Scopes
 - d) System Should be capable of Near Infrared fluorescence Imaging (ICG application) with below features:
 - a. Overlay: White light image with superimposed display of NIR/ICG fluorescence.
 - b. Possible to select the preferred color for NIR/ICG imaging: Either blue or green.
 - c. Monochromatic: NIR/ICG fluorescence signal in white. Background in black for maximum contrast.
 - d. Intensity Map: White light image with superimposed display of NIR/ICG fluorescence.
 - e. NIR/ICG signal display will appear in different colors depending on the strength of the detected NIR signal.
 - e) Picture in Picture of visualization modes with Standard and Optical Contrast Differentiation.
 - f) The system should have facility of 3X Digital Zoom Lens or more.
 - g) The system should have facility for capturing 4K UHD, HD Stills and FULL HD Videos in External USB drive.
 - h) Automatic adjustment of light intensity of light source and controlled from Camera head.
 - i) Outputs: All Compatible outputs should be there as a single output 4K resolution and DVI for HD resolution.
 - a. 2D: DVI-D-1, HD-SDI-2
 - b. 3D: DVI-D-1, 3G/HD-SDI-2, 3G/HD-SDI Recorder-1
 - j) Compatible for attachment of Full HD 2D camera for use with cystoscopy
 - k) Should be supplied with wire tray for 3D camera head sterilization.

- 3. 4K Dual Lens-based Rigid 3D Chip on Tip Scope (10mm 30° and 10 mm 0°: 1 each): The system should have
- a) All in one assembly with coaxial integrated Light cable & camera connector (plug & play type)
 - b) Focus free with the depth of field from less than 30mm to more than 100mm
 - c) Provision for switch over between 3D/2D observation mode from the 3D telescope
 - d) 3D Should be able to perform both White light and Near Infrared applications.
 - e) Working length of 300mm or higher
 - f) Sterilization options: Autoclavable and EtO
 - g) A sterilization tray for the scope should be provided

Laparoscopy Tower: 2D Qty 2

Serial No. Specification for Laparoscopy Tower

1. 4K Resolution Medical Grade Monitor capable of displaying 2D. (31 Inch Monitor or more)
QTY 2
 - a) ALL in one Medical Grade Monitor capable of displaying:
 - a. 2D in 4K resolution
 - b. 2D in Full HD resolution
 - b) LCD/ LED backlit monitor with resolution of 4096 x 2160 (full 4K)/3840 x 2160 (UHID) pixels
 - c) Aspect ratio 16:9
 - d) Multi-modality display compatibility, including Picture-in-Picture for various image size combinations
 - e) Low power consumption, lightweight and thin body
 - f) Advance Image Multiplier Enhancer to enhance image quality.
 - g) Output terminals, including 2 x DVI-D output, 2 x 3G/HD SDI output
 - h) Input terminals, including 2x DVI – D input and 2 x 3G/HD SDI input
 - i) Should be supplied with its compatible stand.

2. Camera Processor: qty 2

- a) Processor for following should be quoted.:
- 2-Dimensional endoscopic camera in 4K resolution (3840*2160)
- b) System should have facility for Optical Contrast Differentiation System, and it Should have special filter for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions.
- c) Upgradable Slot to connect link for Video Scopes
- d) System Should be capable of Near Infrared fluorescence Imaging (ICG application) with below features:
- Overlay: White light image with superimposed display of NIR/ICG fluorescence.
 - Possible to select the preferred color for NIR/ICG imaging: Either blue or green.
 - Monochromatic: NIR/ICG fluorescence signal in white. Background in black for maximum contrast.
 - Intensity Map: White light image with superimposed display of NIR/ICG fluorescence.
 - NIR/ICG signal display will appear in different colors depending on the strength of the detected NIR signal.
- e) Picture in Picture of visualization modes with Standard and Optical Contrast Differentiation.
- f) The system should have facility of 3x Digital Zoom Lens or more.
- g) The system should have facility for capturing 4K UHD, HD Stills and FULL HD Videos in External USB drive.
- h) Automatic adjustment of light intensity of light source and controlled from Camera head.
- i) Outputs: All Compatible outputs should be there as a single output 4K resolution and DVI for HD resolution.
- 2D: DVI-D-1, HD-SDI-2
- j) Should be supplied with wire tray for 3D camera head sterilization.

3. 4K 2D Camera Head - Qty 2

- a) Eyepiece type & have resolution of 4096 x 2160 (full 4K)/3840 x 2160 (UHD) pixels with 16:9 aspect ratio
- b) 2 or more programmable buttons can be configured through the processor
- c) The camera Head Should be able to perform both White light and Near Infrared applications.
- d) Focus range between 15-31mm
- e) The camera Head & coupler should be one piece and should not weigh more than 250gms
- f) The camera head should be compatible with ETO/Sterrad, V-Pro means of Sterilization
- g) Should be compatible with the 3D video processor/or a separate camera control unit should be provided
- h) Zoom: Adaptive Digital Zoom
- i) Camera Head Should be able to perform both White light and Near Infrared application.

4. 2D 4K Telescopes: The system should have

- 1. 10mm Telescope (30 degree and 0 degree: 1 each)
- 2. Working Length of greater than 300 mm
- 3. High-resolution Razor-sharp images & less Chromatic aberration
- 4. Homogenous light distribution in the peripheral region
- 5. Eyepiece type connection for universal compatibility
- 6. Autoclavable

Common Items for 3D and 2D

Serial No. Specification for Laparoscopy Tower

1. LED NIR Light source with Fiber optic cable - qty 3
 - a) Lamp life of approx. > 30,000 hrs.
 - b) Compatible 4.8mm Fiber Optic Cable and 300cm or Longer- qty 03
 - c) Lamp type: High-performance LEDs, white light LED and near infrared LED, which are active individually or simultaneously.
 - d) Automatically adjust light intensity to achieve ideal illumination

2. Endoscopic Trolley – qty 3
 - a) A good Quality.
 - b) Original manufacturer
 - c) Equipment Cart, rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs, modular in nature (should be able to add shelves and components later if required)
 - d) Should have central monitor holder to mount monitor with height adjustable, swiveling and tilting, swivel range approx. 360°, loading capacity max. 18 kg, with monitor mount.
 - e) Trolley should be supplied to accommodate all types of equipment in laparoscopy tower.
 - f) followings when required,
 - a. At least 4 more shelves
 - b. Isolation transformer
 - c. Counter balance plate
 - d. CO2 cylinder holder
 - e. Monitor holding arms (lateral)

3. IMAGE / VIDEO RECORDING, DATA ARCHIVING, SIGNAL MANAGEMENT & STREAMING – qty 3

Recording:

- a) Medical grade documentation unit .
- b) A3D/4K video recorder system with 2 channel real-time recording having facility for capturing real-time Endoscopy and Hand movements synchronized from a Surgical camera
- c) Facility to record both 3D and 2D videos and still images in 4K resolution (3840X2160)
- d) The internal hard disk drive of 2 TB or more and facility of recording on Blu Ray Disc / DVD Disc or USB memory stick if required by the user.
- e) Additional external Hard disk drive of 2TB or more/per recording system.
- f) Two inputs of DVI/HD-SDI at least, inputs for recording from various sources on 2 channels
- g) At least one output DVI / HD-SDI for routing the image if required
- h) Facility for one channel audio recording in real-time with Endoscopy image
- i) The recording should be MPEG 4 AVC / H.264 format with a maximum native resolution of 3840X2160 pixels depending on the input selected
- j) Touch screen with a screen size of 10 inches or more
- k) Should have DICOM connectivity
- l) User should have full control of the system from the sterile field via camera head buttons.
- m) Capture video & images in 4K, UHD, Full HD, 3D & audio files.
- n) Should have minimum of 8 inputs and 8 outputs.
- o) All inputs and outputs should be capable of routing 4K,3D and Full HD signals in native resolution.
- p) Supports network storage on file servers.
- q) Offer two channel simultaneous recording for still images & videos.
- r) USB support for storage on USB drives.
- s) Storage location is freely definable and configurable.
- t) Import of patient data via keyboard or DICOM work list.
- u) Intra- and postoperative printing via optional printer (local or network).

- v) Integrated file-viewer for still images, videos and checklists from diverse data sources.
 - w) Integrated security software as a protection against malware, independent from security patches of the operating system and it is only possible to run certified software
 - x) Structured and clear user guidance, optimized for touch screen control.
 - y) Shall have HL7 connectivity.
 - z) Shall have DICOM connectivity.
 - aa) WHO certified Patient Safety Checklist.
 - bb) Surgical video & image unicast streaming in Full High Definition (1920 x 1080) over local area network to multiple participants.
 - cc) Offer Uni-directional video transmission & bi-directional audio transmission over LAN.
4. Insufflator 50 L or above with integrated heating – qty 3
- a) Digital, microprocessor-controlled & automatic type
 - b) The large digital display on the front panel depicting Set Pressure, Actual Pressure, Flow Rate & Volume
 - c) Insufflator 50L. Innovative Sensitive Mode for sensitive areas such as pediatric applications with safety limits in the pressure up to a maximum of 20 mmHg and flow ranges up to a maximum of 25 l/min.
 - d) High flow mode with flow performance up to 50 l/min.
 - e) Easy and intuitive use with user-friendly color touch screen for easy and precise setting of set values for pressure and flow and of insufflation mode, as well as for the clear display of corresponding set values and actual values.
 - f) Optical and acoustic alarm signals in the event of patient overpressure. Fully automatic, electronically controlled gas refill.
 - g) Safety system: Constant monitoring of intra-abdominal pressure; any overpressure is reduced immediately.
 - h) CO2 High-Pressure Tube, length 102 cm – qty 4
 - i) Insufflation tubing set with gas filter, length 300 CM, heatable, disposable, hydrophobic on both sides- qty 10.
 - j) Insufflation tubing set, reusable, sterilizable, heatable, 2.65M- qty 2

- k) Gas filter ISO connector hydrophobic on both sides sterile for single use, a package of 25 for flow up to 50l/min.
 - l) High-pressure Inline gas filter- qty 3
 - m) Insufflation Tube, Sterilizable, inner diameter 9mm length 250 CM – qty 3
 - n) Regulator for CO2 cylinder should be provided.
5. Specifications - Suction & Irrigation System - qty 3
- a) Pressure regulated suction and irrigation system for use in Laparoscopy and Gynaecology.
 - b) Possible to use suction and irrigation at same settings.
 - c) Unit should have touch screen as user interface.
 - d) Unit should have feature of automatically fixing maximum parameters for LAPAROSCOPY and HYSTEROSCOPY mode by the choice of tubing.
 - e) Unit should have feature of simultaneous display of set values and actual values, enabling user for continuous monitoring of suction and irrigation parameters.
 - f) Unit should have feature of use of disposable/reusable cassette tubing set for LAPAROSCOPY/HYSTEROSCOPY procedures.
 - g) Unit should be supplied with all the accessories.
 - h) Unit should have Pressure settings:
 - a. HYSTEROSCOPY mode: 0-200 mmHg or more
 - b. LAPAROSCOPY mode: 100-300 mmHg or more
 - i) Unit should have Flow settings:
 - a. HYSTEROSCOPY mode: 200-600 ml/min or more
 - b. LAPAROSCOPY mode: 0-1300ml/min or more
 - j) Suction Pressure regulated:
 - a. HYSTEROSCOPY mode: 0.1-(-)0.8bar
 - b. LAPAROSCOPY mode: 0.1-(-)0.8bar
 - k) Power supply: 100-240VAC, 50/60HZ.
 - l) Tubing set for irrigation, Pressure Controlled, reusable, sterilizable for use with suction irrigation system - qty 3
 - m) Tubing set for irrigation, Flow Controlled, reusable, sterilizable for use with suction irrigation system - qty 3
 - n) Silicon tubing set for suction, sterilizable, for use with machine – qty 3/set

- o) Suction Bottle, 5 Ltr, Sterilizable. – qty 5
 - p) Bottle cap, for suction bottles 5 Ltr, Sterilizable. – qty 5
 - q) Bottle Stand, for suction bottle 5 Ltr. - qty 3
6. Smoke Evacuation System- Qty 3
- a) Intelligent, fully automatic control of vacuum generated for smoke evacuation in combination with IIF units integrated in SCB
 - b) Should include a footswitch that can be activated from sterile area to provide surgical smoke evacuation for standalone activation during Laparoscopy surgery
 - c) Electrosurgical Integration Compatibility: Automatic activation via ESU footswitch of advanced ESUs
 - d) Touch key on the unit to enable smooth insertion of the tube
 - e) Should be compatible with all standard Insufflators with pressure control, ranging upto 50L flow capacity
 - f) Multi-specialty usage & compatibility
 - g) Should have parallel suction and smoke evacuation facilities

Hand instruments

- i. VERESS Pneumoperitoneum Needle with spring loaded blunt stylet, LUER-lock, length 10 cm:
Qty 2
- ii. VERESS Pneumoperitoneum Needle with spring loaded blunt stylet, LUER-lock, length 13 cm:
Qty 2
- iii. Trocar, size 11 mm, consisting of: Trocar only, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve, Three part dismantel: Qty 2
- iv. Washers pack of 10 for 10 mm trocar
- v. Trocar, size 11 mm, consisting of: Trocar only, with blunt tip. Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional valve, size 11 mm: Qty 1
- vi. Trocar, size 6 mm, consisting of: Trocar only, with pyramidal tip Cannula without valve, with insufflation stop- cock, length 10.5 cm Multifunctional Valve, Three part dismantel. With washers pack of 10: Qty 1
- vii. Washers pack of 10 for 6mm trocar: Qty 1
- viii. Reduction Sleeve, 11/5 mm: Qty 1
- ix. Three-piece laparoscopic Dissecting- and Grasping Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, ""alligator jaws"", double action" jaws, consisting of: Plastic Handle without ratchet, with larger contact area: Qty 1
- x. Three piece laparoscopic BABCOCK Grasping Forceps, size 5 mm, length 36 cm, with connector pin for unipolar coagulation, atraumatic, jaws with multiple teeth, fenestrated, single action jaws, consisting of: Plastic Handle, without ratchet, with larger contact area: Qty 1
- xi. Three-piece laparoscopic Grasping Forceps, 2 x 4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, single action jaws, consisting of: Plastic Handle with MANIUS style ratchet: Qty 1
- xii. Three-piece laparoscopic Bowel Grasper, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, double action jaws, consisting of: Plastic Handle, without ratchet, with larger contact area Outer Tube, insulated: Qty 1
- xiii. Three-piece laparoscopic autoclavable INAKI grasping and dissecting forceps, single action jaws, fenestrated, 360-degree rotational sheath, size 5 mm, length 36 cm, long, ergonomic metal handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button: Qty 1

- xiv. Three piece laparoscopic CROCE-OLMI Grasping Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER-Lock connector for cleaning, single action jaws, atraumatic, fenestrated, curved, size 5 mm, length 36 cm consisting of: Plastic Handle, without ratchet Metal Outer Sheath, insulated Forceps Insert, Three part dismantel: Qty 1
- xv. Rotatable bipolar KELLY Grasping Forceps, rotating, dismantling, with connector pin for bipolar coagulation, double action jaws, especially suitable for dissection, size 5 mm, length 36 cm consisting of: Plastic Handle, without Ratchet, Three-part dismantel: Qty 1
- xvi. Rotatable bipolar Grasping Forceps, rotating, dismantling, with connector pin for bipolar coagulation, size 5 mm, length 36 cm consisting of: Plastic Handle: Qty 2
- xvii. Bipolar IIF Connecting Cable length 300 cm, compatible with all standard cauterics: Qty 2
- xviii. Rotatable bipolar METZENBAUM Scissors, rotating, dismantling, with connector pin for bipolar coagulation, curved slender blades, double action jaws, size 5 mm, length 36 cm: Qty 1
- xix. Unipolar IIF Cord with 4mm Banana plug and length 300 cm: Qty 2
- xx. Clip Applicator, for use with Ethicon Titanium-Clips LT-300 (medium large), dismantling, rotating, with ratchet to lock the jaw part holding the clip, size 10 mm, length 36 cm, consisting of: Metal Handle, with ratchet Metal Outer Tube Insert, Three-part dismantel: Qty 1
- xxi. Clickline claw forceps, rotating, size 10 mm, length 36 cm, 2 x 3 teeth, single action jaws, consisting of metal handle, with ratchet outer tube, insulated forceps insert: Qty 1
- xxii. BERCI Fascial Closure Instrument for sub cutaneous ligature of trocar incisions, ending: Qty 2
- xxiii. Storage tray for rigid telescopes - with base and lid for use with two rigid telescopes upto 5mm 34 cm - 446mm X 90mm X 45mm: Qty 2
- xxiv. Sterilization Tray for 2 Telescopes (diameter upto 10mm 34 cm) & 1 light cable including holder for light post adaptors 487mm X 125mm X 54mm (same manufacturer): Qty 2
- xxv. Plastic container, for sterilizing and storage perforated, with lid, for two-level storage, external dimensions (w x d x h): 585mm x 255mm x 145mm, for use with 30 cm and 36 cm instruments: Qty 4
- xxvi. Storage Tray for 36 cm hand instruments - two level storage for forceps & instruments 530mm X 250mm X 145mm (Optional): Qty 2
- xxvii. Cleaning Kit from Service team for 10mm trocar, 6mm trocar and 5mm click line instrument, Silicone oil, oil dropper and lens cleaner, stop cock lubricant: Qty 2

Essential accessories: The system should be supplied with

1. 20 nos. of lightweight polarised glasses/3D glasses
2. An additional 10 nos. of clip-on type glasses for spectacle-wearing surgeons
3. Necessary optical/electrical/electronic cables to connect all types of equipment

Others:

1. All equipment should comply with existing Indian standards, and if no such standards are defined, should be US FDA/European CE with 4-digit mark/BIS with CDSCO mandatory.
2. The system should be compatible and should adapt to the existing operating theatre system
3. The quoting firm should be able to provide a physical demonstration of the quoted model
4. Authorization from the principal for standing by terms of warranty for 2 years and thereafter CMC for 8 years.
5. The complete installation including accessories is the responsibility of the supplying firm. The equipment should be fully functional and compatible with the existing electrical and other types of equipment of the main operation theatre of the institute.
6. A pre bid meeting should be held for this item.
7. Manufacturer/Bidder should have experience in establishing machine earlier at list in 3 premier institute & supply order with performance to be attached & one must be in the name of bidder.
