



**OFFICE OF THE PRINCIPAL**  
College of Medicine & J.N.M. Hospital  
West Bengal University of Health Sciences  
Kalyani, Nadia, West Bengal, Pin – 741235

**Memo No. COMJNMH/PR/2026/108**

**Date:-15.01.2026**

**CORRIGENDUM**

**(Tender Ref. NO. COMJNMH/PR/2026/42 Dated: 06.01.2026)**

Modification in the specifications of following Equipments are hereby done, as per the decision taken in the Pre Bid Meeting held on 13.01.2026 in the Conference Room of the Administrative Building. The modified/revised specification of the Equipments will be uploaded as corrigendum for the said Tender in the e-tender portal and submission of bid will be done based on that revised specification.

**Revised specification for the following Equipment as given with separate attachment:**

Sl. No	ITEM	Department	Tender ID	Remarks
1	HD camera System Thoracoscope	Pulmonary Medicine	2026_HFW_984629_4	Attachment with new specification
2	Electro Surgical Generator with Vessel Sealer Monopolar Cut	OBS & GYNE	2026_HFW_984629_5	Attachment with new specification
3	Hysteroscopy Set	OBS & GYNE	2026_HFW_984629_6	Attachment with new specification

*Law*  
15-01-26

**Principal,  
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**Attachment:-**

1. New specification of HD camera System Thoracoscope
2. New specification of Electro Surgical Generator with Vessel Sealer Monopolar Cut.
3. New specification of Hysteroscopy Set.

**Memo No. COMJNMH/PR/2026/108**

**Date: 15.01.2026**

Copy forwarded for information: -

1. Registrar, the West Bengal University of Health Sciences, Salt Lake, Kolkata.
2. Finance Officer, the West Bengal University of Health Sciences, Salt Lake, Kolkata.
3. Medical Superintendent, College of Medicine & J.N.M. Hospital, Kalyani, Nadia.
4. HODs Dept. of Pulmonary Medicine and Obs. & Gyne, College of Medicine & JNM Hospital, Kalyani, Nadia.
5. Accounts Officer, College of Medicine & JNM Hospital, Kalyani, Nadia. (Hospital Side)
6. Accounts Officer, College of Medicine & JNM Hospital, Kalyani, Nadia. (College Side)
7. Programme Officer, the West Bengal University of Health Sciences, Kolkata – to upload the matter at the Official Website of the West Bengal University of Health Sciences.
8. Sri Mayukh Jyoti Sen (DEO) and Sri Nupul Mondal (DEO), College of Medicine & JNM Hospital- to upload the matter at the Official Website of the College of Medicine & JNM Hospital.
9. Office Copy.



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15-01-26

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# Technical Specification for Advanced Semi-Rigid Pleuravideoscope (Thoracoscope) system

System Includes:

- A. Video Processor with Light source
- B. Semi-Rigid Pleuravideoscope (Thoracoscope)
- C. Peripheral Items

## A. Video processor with Light source:

- Video processor should have In-built light source with 5 LED Spectrum Technology inclusive of Amber LED to improve red color reproduction in White-Light Imaging and improve deep vessel visibility in the RDI Mode
- Should have real time optical enhancement like NBI (Narrow Band Imaging) Technology to determine potential histology and confirm lateral extent for all indications.
- Should have technology for identifying bleeding points and underlining deep vessels during therapeutic procedures - RDI (Red Dichromatic Imaging)
- Should have texture enhancement technology for optimization of structure, color tone and brightness of the mucosal surface for early cancer detection.
- Should have technology to adjust brightness of darker areas so that more and far can be seen during endoscopy.
- Should have full screen mode, the endoscopic image should cover the entire monitor screen, which allows the bronchoscopist to observe with Higher Magnification power.
- The video processor should have digital 12G-SDI output for 4K, 3G-SDI and HD-SDI output for UHD image and should contain electronics for clear visibility of near and far objects.
- Provision of VBS composite video output function
- Equipped With High-Definition HDTV imaging capacity.
- Provision of Portable memory and USB slot for still image recording
- Provision of automatic IRIS control and white balance free function
- Provision of Picture in picture display both SD & HD input options and index function
- Equipped with automatic halving of Light brightness when the scope is kept idle for more time, so that it makes the endoscopic room more comfortable for medical staff & patients.
- Equipped with touch screen interface for accessing the processor settings.

## B. Semi-Rigid Pleuravideoscope (Thoracoscope): Should have following features:

- Should have HD CCD on tip.
- Compatible with electrosurgical and laser treatments
- It should be compatible with optical enhancement NBI/TXI/RDI modes. (Optional)
- Distal end & Insertion tube outer diameter should be 7.3 mm or less
- Distal tip should be bendable in Up/Down direction for better vision in pleural cavity
- Field of view should be 120 degree or more
- Depth of field should be 7-100 mm or better
- Angulation range should be approx. Up 180 deg. & Down 130 deg.
- Working length should be around 250 — 540 mm
- Instrument Channel should be around 3 mm
- It should have waterproof one touch connector.

## C. Peripheral Items

1. Monitor: Should have following specifications: -
  - 27- inch or more medical graded monitor.
2. Others:
  - Water leakage tester should be provided
  - Dedicated Trolley for endoscopy should be provided
  - Image management and recording software should be provided compatible with available resolution.
  - Flexible Trocar -20 (Make-OEM)
  - Single Use Biopsy Forceps-20 (Make-OEM)

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**SPECIFICATIONS FOR COMBINED ELECTROSURGICAL SYSTEM WITH VESSEL SEALING**

- It should be an integrated system with 350W output generator and a single 7" touch screen having four quadrants for Monopolar, Bipolar, Vessel Fusion one generator.
  - The system must be micro-processor controlled which should identify the tissue type with feedback min. 4,30,000 times/second on real basis and adjust the power to get the desired surgical effect on the tissue.
  - The Power Efficiency Rating of the generator should be more than 99%.
  - The system should have 2 monopolar outputs, 1 Bipolar output, and 1 Vessel Sealing output.
    1. The Monopolar Mode should have
      - a) Monopolar Cut
        - I) Pure: 300W or more (or equivalent)
        - II) Blend: 200W or more (or equivalent)
      - b) Monopolar Coagulation:
        - I) Fulgurate: 120W or more (or equivalent)
        - II) Shared Fulgurate :120W or more(or equivalent)
        - III) Spray: 120W or more (or equivalent)
        - IV) Shared Spray: 120W or more (or equivalent)
        - V) Soft: 120W or more
      - c) Unit should be compactable with two button monopolar pencil which can be used to adjust the power output of the machine from the sterile field itself.
    2. The Bipolar Mode should have
      - a) Precise: 70W (or equivalent)
      - b) Standard: 70W (or equivalent)
      - c) Macro: 70W (or equivalent)
      - d) Unit should have Auto bipolar more or advance bipolar mode with delayed time setting which when activated, unit senses tissue impedance between the two bipolar electrodes, then uses the impedance information to automatically start or stop bipolar energy delivery. Optionally, the user may select a timed activation delay for auto start and RF activation. The power settings can be increased/decreased of Bipolar precise mode by 0.5 watts. (or equivalent)
  - The internal storage capacity of the unit should be 8GB or 18 GB Saved program.
  - System should have separate monopolar, bipolar, bipolar resection & Vessel Sealing foot pedal or equivalent.
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- a) The system should have one different Vessel Fusion output which should be able to seal artery, veins along with tissue bundle up to and including 7mm or 5mm in diameter, and fused vessels should be able to withstand more than 3 times of normal systolic blood pressure.
  - b) The Vessel seal system should be of minimum of 300W at a rated load of 20 ohms.
  - c) The vessel sealing system should support open and laparoscopic hand instruments
  - d) The vessel sealing hand instruments should have curved jaw & its sealing should be independent of Cutting.
  - e) Vessel hand instrument jaw should be coated for faster cooling and less thermal spread.
  - f) Thermal spread should be at least less than 2mm.
  - g) Vessel sealing should be an option of enabling or disabling the footswitches.
  - h) System should have audio visual indication for sealing complete and in complete.
- 
- System should have audio visual indication for sealing complete and in complete or equivalent.
  - The system should have a facility and a recall facility to recall the last setting used by the user.
  - System should be compatible quality monitoring system.
  - Unit should have Split Type Patient Plate contact quality monitoring System for Maximum Patient Safety (Unit should not be delivering power until and unless maximum area of the patient plate is attached to patient body to minimize the risk of post-operative cautery burns).
  - System should have audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
  - The system should be able to save user-configurable favourite preferences.
  - The system should be upgradable and should have RS232, USB, Ethernet port for on field software downloads, upgrades and serviceability.
  - The system should be able to connect and function with a cardioblate device for Cardiac tissue ablation procedures.

➤ **Accessories:** The System must be accompanied with the following set of accessories:

- A. Monopolar Footswitch (Coagulant & Cutting) – 1
- B. Vessel Sealing Footswitch with Bipolar— 1
- C. Universal Adapter— 1
- D. Laparoscopic Shearer type Vessel Sealing Instrument which can seal 07mm with cutting of vessels -06
- E. Open Curved Jaw Shorthand Shearer Vessel Sealing Hand Instrument which can seal 07 mm of Vessels— 06.
- F. Laparoscopic Bipolar Fenestrated Jaw 5mm vessel sealing instrument - 06
- G. Adult reuseable type patient plate with cable- 02
- H. Two Hand Switching Pencil — 05

➤ **Term & Conditions**

- A. The Manufacturer/Agent should quote the latest model available on the market. (Undertaking to be given by the Manufacturer).
- B. All accessories should be from the same OEM.
- C. The system should be defibrillator proof.
- D. The Power Efficiency rating should be more than 99% and the same must be demonstrated with certified calibrated equipment and all the updated calibration certificate of all the equipment which will be using to demonstrate power efficiency rating, must be submitted at the time of technical demonstration.

The Bidder/OEM should have Valid CDSCO certificate

for HOD  
15/1/26

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**Specification of Hysteroscope (Operative & Diagnostics)**

System must be able to be used with continuous flow.

The outer diameter of system must not exceed 6.5mm when combined with 4mm telescope.

The system must be able to be used with endo-therapy instruments up to 5Fr.

Telescope direction of view must be 4 MM 30°.

30' telescope must be wide angle.

System should be autoclavable.

System must include semiflexible hand instruments for grasping, cutting and biopsy purposes. ' - Hand instruments must be 5Fr.(rotatable) in diameter.

Hand instruments must not exceed 360mm in length.

Recannulation Set -02

The device must be CE certified or FDA approved.

System must be able to be used either for single or continuous flow.

The outer diameter of system must not exceed 4 mm when assembled for single flow usage.

The outer diameter of system must not exceed 4 mm when assembled for continuous flow usage.

The continuous flow system must have dual-channel Sheath design to be as compact as possible.

Should be autoclavable.

Telescope direction of view must be 4 MM 30°

30° Telescope must be wide angle.

Material of telescope lenses should be glass.

Dedicated protection tube for telescopes available. The device must be CE certified or FDA approved.

**Specification of Bipolar TCRE**

System must be able to be used with continuous flow.

The outer diameter must not exceed 8.5mm.

The system must be rotatable at the outer sheath.

The working length must not exceed 194 mm.

Telescope outer diameter must be 4mm.

Telescope direction of view must be 30 degree.

Dedicated instrument tray for 4mm telescope available.

System should be autoclavable.

Assembling and disassembling must be due to a logical locking system.

Inner sheath must be with ceramic beak.

Working element must be available either for passive or active use.

Working element must be dedicated for use in monopolar energy.

Working element must be dedicated for use in bipolar energy.

HF resection electrodes must be dedicated for use in bipolar energy under saline.

Tip of HF resection electrode must be a loop dedicated (or use with 30° telescope.

Tip of HF resection electrode must be a roller dedicated for use with 30° telescope.

Tip of HF-resection electrode must be a 45°-needle dedicated for use with 30° telescope

Tip of HF-resection electrode must be a button for plasma vaporization dedicated for use in 30° telescope

HF-cable should have instrument recognition when connected to HF unit.

The devices must be CE certified or FDA approved

**2.9 mm hysteroscope (Operative & Diagnostic)**

2.9 mm diagnostic hysteroscope with inner and outer sheath continuous flow.

The devices must be CE certified or FDA approved

**Fluid Management System.**

Flow & Pressure controlled Irrigation System

Liquid Pressure Monitoring Technology

Disposable Pressure transducer to avoid Patient Fluid Contamination

Real Time Pressure & Flow Monitoring of Intra-Uterine Cavity I specific surgical site Built-in Low Noise irrigation pump

Surgery Specific Custom Modes: Hysteroscopy & versatile Preferably indicator for amount of consumed fluid by the patient Preferably for Saline & Glycine Mode settings Alarm indication for consumed fluid after safety threshold.

Priming/ Flush for removing air bubble from tubing at initialization

Touch Screen LCD Interface

Pressure Range: 10 to 400 mmHg  $\pm$  10%

Flow Range: Irrigation : 100mL to 1000mL  $\pm$  10%

Pressure Setting: Irrigation : 10mmHg 1 step

Flow Setting: Irrigation : 100mL 1 step

Operating Modes: Only Irrigation

Mode Filter: Disposable Cartridge Filter (0.2 micron)

Tubing : Silicon Tubing Tube Specifications: Silicon tubing for Irrigation and Suction of 3Mtr Touch Control Panel: 5"

LCD Screen with brightness control

The devices must be CE certified or FDA approved

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