

**BRIHANMUMBAI MUNICIPAL CORPORATION**  
**TNMC & BYL Nair Ch. Hospital, Mumbai- 400008.**

**EXPRESSION OF INTEREST**

**Subject:** To invite Expression of Interest for **Supply, Installation, Testing and Commissioning of a Semi rigid thoraco-videoscope machine on proprietary basis with three years of comprehensive warranty and three years of CMC** for the Department of Pulmonary/Respiratory Medicine, BYL Nair Hospital through CSR Fund received through PPF, BYL Nair Hospital from Mazgaon Dock Shipbuilders Limited (MDL)

BYL Nair Hospital is a tertiary care referral hospital with 1623 beds. The Department of Pulmonary/Respiratory Medicine routinely performs pleural biopsy for adult patients however currently with the blind pleural biopsy needle. A Semi rigid thoraco-videoscope machine is highly beneficial for vision guided pleural biopsy for diagnosing, treatment & monitoring of pleural effusions in adults. Additionally, it plays a crucial role in diagnosing pleural tuberculosis and rare pleural malignancies. For this purpose, we urgently require a Semi rigid thoraco-videoscope.

For procurement of the semi rigid thoraco-videoscope machine on proprietary basis for the Department of Pulmonary/Respiratory Medicine, it is proposed to invite "Expression of Interest (EOI)" from proprietor to supply the same to BYL Nair hospital.

The mentioned documents are uploaded for open information to **submit objections/comments/suggestions** if any from any manufacturer regarding proprietary nature of the said equipment on or before **14/02/25**, up to 1.00pm in the drop box in Dean Office, College building, Ground floor, BYL Nair Hospital.

To supply the required semi rigid thoraco-videoscope machine, the proprietor should obtain **Application Form** from **Dean Office on 06/02/25 to 12/02/25** and submit all required documents on or before **14/02/25**, up to 1.00pm in the drop box in Dean Office, College building, Ground floor, BYL Nair Hospital. This will be a 2 stage EOI comprising of 2 packets;

1)Packet A - relevant documents related to the technical specifications (It should be clearly stated in a tabular format whether each of the specifications listed below has been complied with or not) along with the duly filled Application form

2)Packet B - Commercial documents (quotation in the prescribed format).

If no other objections/ suggestions/comments are received, the proprietor's **Packet A will be opened on 14/02/24 & packet B will be opened on 21/02/24** in the Dean's Office.

**SPECIFICATIONS FOR SEMI RIGID THORACO-VIDEOSCOPE MACHINE FOR THE  
DEPARTMENT OF RESPIRATORY/PULMONARY MEDICINE, BYLNAIR HOSPITAL,  
MUMBAI**

**SEMI RIGID THORACO-VIDEOSCOPE MACHINE Includes:**

**A. Video processor/light source**

**B. Video Thoracoscope**

**C. Peripheral Items**

**A. Video processor/light source:**

1. 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
2. Should have real time optical enhancement like NBI (Narrow Band Imaging) Technology to determine potential histology and confirm lateral extent for all indications in GI tract
3. Should have technology for identifying bleeding points and underlining deep vessels during therapeutic procedures -RDI (Red Dichromatic Imaging)
4. Should have texture enhancement technology for optimization of structure, color tone and brightness of the mucosal surface for early cancer detection
5. Should have technology to adjust brightness of darker areas so that more and far can be seen during endoscopy.
6. Should have full screen mode, the endoscopic image should cover the entire monitor screen, which allows the bronchoscopist to observe with Higher Magnification power
7. 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
8. Provision of VBS composite video output function
9. Equipped With High-Definition HDTV imaging capacity
10. Provision of Portable memory and USB slot for still image recording
11. Provision of automatic IRIS control and white balance free function
12. Provision of Picture in picture display both SD & HD input options and index function ability
13. 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
14. Equipped with touch screen interface for accessing the processor settings

**B. Video Thoracoscope:** Should have following features:

- Should have HD CCD on tip
- Compatible with electrosurgical and laser treatments
- It should be compatible with the same Bronchoscopy light source and processor that would be used for bronchoscope
- It should be compatible with NBI/TXI/RDI modes.
- Distal end & Insertion tube outer diameter should be 7 mm or less
- Distal tip should be bendable in Up/Down direction for better vision in pleural cavity

- Field of view should be 110 degree or more
- Depth of field should be 3 mm or less
- Angulation range should be approx. Up 180 deg & Down 130 deg
- Working length should be around 250 – 300 mm
- Instrument Channel should be around 3 mm
- It should have waterproof one touch connector

### C. **Peripheral Items**

#### 1. **Monitor:**Should have following specifications

- 32-Inch with LED Backlit medical grade monitor with 4K UHD resolution from same make for better visualization leading to early cancer detection and treatment effective.
- Should be compatible with The Advanced Image Multiple Enhancer (A.I.M.E.™) technology
- Should be compatible to route 4K/HD video signals via a single 12G-SDI output
- Should have multiple display modes such as Picture-in-Picture (PIP) and Picture-out-Picture (POP) display modes
- Should have CLONE OUT function to duplicate the 4K/HD video signals as displayed on the screen, including PIP/POP to a second monitor, or recording device
- Variety of video signal inputs such as 12G-SDI, HDMI, & 3G-SDI should be available
- Ergonomic design
- Certified from IEC 60601-1
- Intuitively operable control panel with LED lighting navigation

#### 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
- UPS / stabilizer backup

D. Three-year comprehensive warranty and should provide technical support and required spares and consumables for 10 years after warranty period is over. Rate of consumables to be freezed for 10 years and rate circular for the same to be provided.

E. It is also necessary to have in writing from the supplier that the BMC conditions in regard to preventive and breakdown maintenance, up time guarantee, etc. as reflected in the circular under No. Director (ME & MH)/1713 of 14.06.2013 and in MCGM's standard bid document for purchase with CMC will be adhered to.

F. The offer shall also assure free of cost upgrades to the software, if any during the contract period.

G. It should follow International standard & safety requirements. The system should comply with CE or USFDA standards.

H. User's list with the addresses and contact Nos. To be provided.

I. Demonstration of quoted model is compulsory.

J. All standard Accessories should be supplied.

- K. Training to MEC Engineers. The experience of successful supply, installation, commissioning, repairs & maintenance of the equipment along with certified copies of the executed purchase orders along with completion certificates shall be provided.
- L. Operating and detailed service manual should be supplied.
- M. Power supply: 230 V + 15 %, 50Hz + 3%. Voltage stabilizer if required should be supplied.
- N. Tropicalization: Operating room temp: up to 40<sup>0</sup> C  
Storage room temp: up to 60<sup>0</sup> C  
Relative humidity: upto 90 %Non condensing.
- O. Letter to confirm patent of technology or patent certificate from the proprietor.
- P. An undertaking that no other equipment is available with identical technology and sole manufacturer from the proprietor.

**The Installation Report & necessary documents will be submitted to the Donor. The Donor will deposit the payment in Nair Poor Patient fund (PPF) and payment will be made by Nair PPF after receiving the payment from the Donor**

If any doubt or any query about above mentioned work, you can contact at the Office -  
Telephone No.02223027643/02223027642

Sd/-

Sd/-

**Dr.Unnati Desai**

Addl Professor & Incharge  
Department of Respiratory Medicine

T N Medical College & BYL Nair Hospital, Mumbai

**Dr.Anjali Parande**

Head of Department  
Medical Social Service dept

Sd/-

Sd/-

**Dy.Dean**

TN Medical College & BYL  
Nair Hospital  
Mumbai 400 008

**Dean**

TN Medical College & BYL  
Nair Hospital  
Mumbai 400 008

Proprietary certificate

**OLYMPUS**

Date: 18<sup>th</sup> Dec 2024

To,  
The Dean,  
TNMC & BYL Nair Ch. Hospital,  
Mumbai - 400008

**Sub: Proprietary Article Certificate for Olympus Semi Rigid Thoracovideoscope (Model: LTF-H290)**

Dear Sir,

We Olympus Corporation are established and reputable manufacturer of **Olympus Semi Rigid Thoracovideoscope (Model: LTF-H290)** having office at 2951, Ishikawa-Machi, Hachioji -shi, Tokyo 192-8507, Japan.

We hereby certify and confirm that “**Olympus Semi Rigid Thoracovideoscope (Model: LTF-H290)**” which has a capability of moving distal tip Up and Down (180/130 degree) directions with High Definition image quality, having Narrow Band Imaging technology ( NBI ) along with large 3.0 mm working channel incorporated is being solely manufactured by **Olympus Corporation** having its manufacturing office at 2951, Ishikawa-Machi, Hachioji-shi, Tokyo 192-8507, Japan.

**Olympus Semi Rigid Thoracovideoscope (Model: LTF-H290)** with above mentioned features and specification is Proprietary product of Olympus Corporation, Japan.

Sincerely yours,  
For Olympus Corporation,

**新開 雅啓**  
新開 雅啓 (2024年12月18日 09:27 GMT+9)

Masahiro Shinkai  
Vice president  
Asia-Pacific and Emerging Markets  
OLYMPUS CORPORATION

Verified and S/d