

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI
LTHMC & LTMG Hospital,
Social Service Department ,
Sion, Mumbai – 400022.

Expression of Interest

Subject-	To invite Expression of Interest from vendors to supply <u>(1) Laparoscopy System for Surgical Gastroenterology Department LTMG Hospital through Toyo Engineering India Pvt. Ltd.'s CSR Fund , through Dean, PBCF LTMG Hospital</u>
	LTH/ / / dt. Due On

Lokmanya Tilak Municipal General Hospital is a tertiary referral center with 1750 beds. Being the 1st major hospital on eastern and western express highway, lot of patients with Gastric ailments and cancer are brought to this hospital. Many of these patients are poor and are deprived of recent Advanced treatment as it's unaffordable to them in private sector. Provision of laparoscopic treatment at our hospital will improve the quality of care for these patients.

For procurement of Laparoscopic System for Surgical Gastroenterology department, it is proposed to invite “Expression of Interest” from vendors to supply the same for patients admitted in Surgical Gastroenterology department, L.T.M.G. hospital.

To supply required Laparoscopic system vendors should obtain **Application Form from Social Service Department on 13.10.2022 to 18.10.2022** and submit all required documents on or before **18.10.2022, up to 1.00 pm in the drop box in Social Service Department**, College building, ground floor of LTMG Hospital, application box will be opened on **19.10.2022 in Dean’s Office.**

SPECIFICATIONS FOR LAPAROSCOPIC SYSTEM FOR DEPARTMENT OF SURGICAL GASTROENTEROLOGY, L.T.M.G. HOSPITAL, SION, MUMBAI

Sr. No.	Name	<u>Technical Specifications for HD Laparoscopic Surgery Set with ICG</u>
1	Specifi cation	<p>A) Full High-Definition Laparoscopy Surgery Set should consist of the Following items:</p> <ol style="list-style-type: none"> 1) Full HD Video Image Processor -1 no 2) 3 Chip CMOS Full HD Camera Head- 1 no 3) IR(ICG) Xenon Light Source- 1 no 4) 26 Inch or More Full HD Medical Grade Monitor-1 No 5) IR Telescopes: 10MM 30 Degree -1 No 6) Non IR Telescope : 10 MM 0 degree - 1 No 7) Non IR Telescope: 5 MM 30 degree - 1 No 8) Light Guide Cable-1 No 9) High Flow Insufflator (45 L)- 1 No 10) Third Party Make Recording software with Laptop -1 No 11) Local Make Indian Trolley -1 No <p>All products should be US FDA or European CE approved and from same manufacturer</p> <ol style="list-style-type: none"> 1) Full HD Video Image Processor: Should be of latest series/model and have following specifications: <ul style="list-style-type: none"> – A full high-definition processor should have resolution of 1920x1080 pixels with 16:9 aspect ratio. – Should have Integrated Light Source to make system a simple box compact – Should have provision of Optical image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions- NBI Technology

- Should be compatible with IR (ICG) visualization and all Items to use for ICG Cases in OR Should be supplied
- Should have 5 or more Default User Preset for different surgical disciplines including IR
- Should have touch panel for easy access of system functions & settings
- Should have built-in- Fibre mode for Flexible Scopes
- Should have LASER mode for maintaining uniform Brightness during LASER use with Flexible scopes
- Should have Cysto Color adjustment mode for proper visualization of enhance vessels under special light observation
- Automatic Shutter and microprocessor controlled Automatic Gain Control
- Should have modes for maintaining uniform brightness and brightening of dark areas in Endoscopic Image
- Should have modes for False colour overlay Image & Fluorescence black and white image for ICG Visualization
- Should have USB slot for capturing HD/SD Endoscopic Still Images
- Should have provision of storing 20 user settings & 50 Patient data
- Should have one output each for DVI/HD-SDI and S-Video/Composite for HD & SD videos

2) 3 Chip CMOS Full HD Camera Head: Should be of latest series/model and have following specifications:

- The 3 Chip CMOS full HD camera head should be of Eye piece type & have resolution of 1920x1080 pixels with 16:9 aspect ratio.
- Should have integrated optical zoom coupler ranging from 0.9x to 1.8x and can be varied seamlessly
- Should have 2 or more programmable buttons which can be configured through the processor
- Should have provision of assigning & controlling IR visualization through Programmable buttons
- The camera head should have focus range between 15-33mm and should have provision to focus Image from Coarse to fine patterns
- Camera Head should provision for Real time correction of Pixel Defect
- Camera Head & coupler should be one piece and should not weigh more than 250gms
- Camera head should be compatible with ETO/Sterrad, V-Pro means of Sterilization

3) Powerful 300W Xenon Light Source for IR(ICG) Visualization: Should have following specifications:

- A Powerful 300-Watt Xenon Light source capable for both White Light Imaging & IR(ICG) Visualization
- Should have Emergency Lamp facility
- Automatically adjusts light intensity to achieve ideal illumination
- Should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions.

4) 26 Inch or More Full HD Medical Grade Monitor: Should have following specifications:

- 26-inch or More full HD monitor with TFT/LCD Screen with LED backlit having resolution of 1920X1080
- Aspect ratio 16:9
- Should have multi-modality display compatibility, including Picture-in-Picture, Picture-out-Picture and preferably clone out for various image sizes combinations.
- Should have at least one input and output terminals each including 3G/HD/SD-SDI,DVI,HD15,Y/C and Video.
- Should be eco-friendly, having various power saving modes, light weight, and

thin body.

- 5) IR 10mm Telescope: Should have following specifications:
 - 10mm Telescope with 30 degree Direction of View and working length of 300mm or more
 - It should be compatible for White Light Observation and for ICG Visualization
 - It should have ED Lens for better contrast, color reproduction & Razor sharp Images
 - should be completely distortion free
 - It should have Large field of view more than 80 deg and depth of focus
 - It should have Detachable Eyepiece type
 - It should be Autoclavable
- 6) Non IR 5 mm Telescope :Should have following specifications:
 - 5mm Telescope with 30 degree Direction of View and working length of 300mm or more
 - It should have ED Lens for better contrast, color reproduction & Razor sharp Images
 - should be completely distortion free
 - It should have Large field of view more than 80 deg and depth of focus
 - It should have Detachable Eyepiece type
 - It should be Autoclavable.
- 7) Non IR 10 mm Telescope: Should have following specifications:
 - 10mm Telescope with 0 degree Direction of View and working length of 300mm or more
 - It should have ED Lens for better contrast, color reproduction & Razor sharp Images
 - should be completely distortion free
 - It should have Large field of view more than 80 deg and depth of focus
 - It should have Detachable Eyepiece type
 - It should be Autoclavable
- 8) Light Guide Cable
 - It should have High resistance protection against mechanical and thermal stress
 - It should have 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
- 9) High Flow Co2 Gas 45 L Insufflator: 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 45 L/Min
 - Should have alarms for Over pressure, Tube Clogging & insufficient supply of gas
- 10) HD Recording Device: Should have following specifications:
 - A Good Third-Party HD Recording software with Laptop should be provided
- 11) A good Quality Indian Trolley should be supplied to accommodate all equipment's.

All products should be US FDA or European CE approved and all Items should be from same manufacturer expect Monitor, Recording software, Laptop and Trolley

	Warranty period	<p>Kindly note Warranty would be of Total 3 Year from the date of Installation (One Year Standard warranty and next Two year of Comprehensive warranty):</p> <ul style="list-style-type: none"> - This warranty does not cover accessories, consumable, normal wear, & tear and wrongful handling. - Warranty is applicable on Video Processor-OTV-S200, Camera Head-CH-S200-XZ-EB, ICG Light Source -CLV-S200-IR , and Insufflator -UHI-4
	CMC	<p>Post warranty CMC would be applicable for 5% inclusive of GST for next 5 Year</p> <p>CMC is applicable on Video Processor-OTV-S200, Camera Head-CH-S200-XZ-EB, ICG Light Source -CLV-S200-IR , and Insufflator -UHI-4</p>
	GENERAL REQUIREMENTS:	<ol style="list-style-type: none"> 1) All the above equipment's shall be new and manufactured from virgin materials. All the requirements of this supply shall be necessary sourced from the original equipment manufacturer of the model quoted except Trolley, Recoding software with Laptop ,Monitor which shall not be necessary sourced from the original equipment manufacturer of the model quoted but should be compatible with the quoted model. In case the machine is imported one no import substitution is permitted neither before the award nor after the award for any part or accessories. 2) Equipment shall operate on 230 V, single phase, 50 Hz electric supply. The necessary protective relaying shall be there with the machines. The mains supply voltage variation may be max.±15% and frequency variation maximum ±3 %. Power input to be 100- 240 v AC, 50 Hz fitted with Indian power-plug. 3) The unit should comply with International Standards & must have US FDA or European CE approved. 4) The equipment's shall be having warranty of three years as described in the tender document elsewhere. 5) The equipment's should be provided with one hard copy in original of the detailed service manual and operation manual. Further, a soft copy is also required. 6) The equipment must be tropicalized as below: Operating room temperature: max. 0 - 40° C Storage room temperature: Max 0 - 60° C Relative Humidity: up to 90% non-condensing. 7) Among the other things, the responsiveness of the bid will be based on successful demonstration of the offered model of the equipment's to MCGM officials as mentioned elsewhere in the tender specifications. 8) The bidder has to submit users list with address & contact telephone number/s. 9) Prospective tenderers should have a full-fledged and well-established service center in Mumbai with engineers qualified in servicing of ICG Laparoscopy system. Please provide details of the same

If any doubt or any query about above mentation work you can contact with Mr. Shantaram Mane (Community Development Officer LTMG Hospital, Sion.) Mob 9819733707

Sd/-

Dr. Prakash Gaikwad,
Head of Department,
Social Service Department.

Sd/-

Dr. Sachin J Bhojankar,
Senior Consultant & Head,
Surgical Gastroenterology.

Sd/-

Dy. Dean,
L.T.M.M. College &
L.T.M.G Hospital,

Sd/-

Dean,
L.T.M.M. College &
L.T.M.G Hospital,

Sion, Mumbai – 400 022.

Sion, Mumbai – 400 0022.