

Technical Specifications for Complete Full HD Endoscopy system with

Gastroendosonography system-

Item No. 1.

Full High Definition Video Gastroscope.:

- Built in Full HD compatible CMOS/CCD with close focus observation capacity.
- Suitable for BLI/NBI/ISCAN-OE real time optical chromo endoscopy system.
- Fully immersible in disinfectant solution.
- Inbuilt Auxiliary water jet should be available for POEM/ESD/EMR/advance procedures.

Field of view	140°
Observation range	2-100mm
Bending capability	Up 210° /Down 90° Right 100°/Left 100°
Distal end diameter	9.2 mm or less
Insertion tube diameter	9.3 mm or less
Working channel diameter	2.8 mm or more
Working length	1100 mm or less
Total length	1400 mm or less

Item No. 4.

Full High Definition Video Colonoscope – 1 No.:

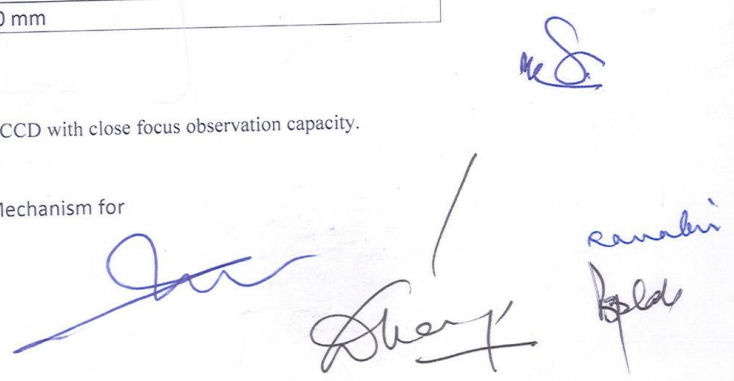
- Built in FullHD compatible CMOS/CCD with near focus observation capacity.
- Suitable for BLI/NBI/ISCAN-OE real time optical chromo endoscopy system.
- Fully immersible in disinfectant solution.
- Inbuilt features like Gradual stiffness/variable stiffness for ease of patient.
- Fully immersible in disinfectant solution.
- Auxiliary water jet for mucosal cleaning.

Field of view	170° or more
Observation range	2-100mm
Bending capability	Up 180° /Down 180° Right 160° /Left 160°
Distal end diameter	12.9mm or less
Insertion tube diameter	12.9mm or less
Working channel diameter	3.7mm or more
Working length	1690mm
Total length	1990 mm

Item No. 2.

Video Duodenoscope (ERCP)-

- Built in High resolution compatible CMOS/CCD with close focus observation capacity.
- Suitable for BLI/NBI/ISCAN-OE/FICE.
- Scope should have Dual Lock/G Lock Mechanism for



Model/Specification	
- Viewing Direction	95 degree (5 degree rearward)
Field of view	100 degree or more
Bending U/D	120/90 degree or more
Bending R/L	110/90 degree or more
Distal End	13.1 or less
Insertion Tube	10.8 to 11.6 mm
Biopsy Channel	4.2mm or more
Observation Range	4-60 mm or better
Working Length	1150 to 1250 mm
Total Length	1480 to 1550 mm

Video Processor:

- Should be compatible with Analog,DVI-D , S VIDEO x 1, VIDEO output for a HDTV monitor should be available.
- Should contain the electronics to operate Multi optical zoom for clear visibility of near & far objects
- Suitable for BLI/NBI/ISCAN-OE/FICE with real time optical chromo endoscopy system.
- Equipped with high resolution HDTV Imaging capacity.
- Compact, light weight (10-15 kg) and ergonomically designed
- Recording of both still & moving images
- Should be compatible with the EUS System, Balloon Enteroscopy system etc...
- Portable Memory & USB Slot for image recordingExternal memory USB (2GB)
- Automatic IRIS control & automatic white balance
- Electronic Zoom upto 1.5X or better.

Light Source:

- Equipped with 3 or more Multi LED/300 watt xenon light source, at least 5 years life of bulb/light(In case of Xenon extra 10 bulbs should be provided).
- Equipped with special filter for for BLI/NBI/ISCAN-OE real time optical chromo endoscopy system.
- Equipped with automatic light adjustment forced aircooling, regulated airfeeding pump and fan with low noise.

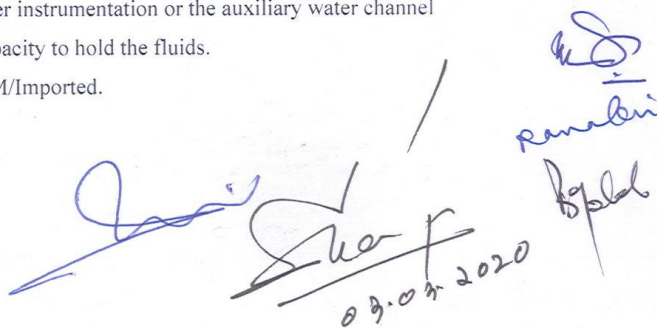
26" or more HD Medical grade monitor

Should have DVI/HD inputs and view angle of 178 degree or more and brightness of 900cd/m2 and 19020 X 1080 Pixles.

Flushing pump: Should have following specification –

Should be able to irrigate the fluid down either instrumentation or the auxiliary water channel
 Water container with minimum of 2 liters capacity to hold the fluids.
 Flushing pump should be from the same OEM/Imported.

Endoscopic CO2 regulation unit –



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Should have following specifications

One button start/stop operation, pressure display and timer function to automate CO2 insufflations shut off.

Should have three controlled flow rate settings.

Should have a maximum pressure feed of 65 kPa or less.

Should not be more than 9 kg in weight or less.

Item No. 3.

ULTRASONIC GASTROVIDEOSCOPE (RADIAL)





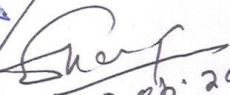
- Should have 360 degree electrical radial array.
- Should have EUS images with four or more selectable frequencies
- Should have Colour and Power Doppler for effective confirmation of blood flow
- Should have lens cleaning function for keeping the endoscopic field of view clear at all times
- Distal end should have short rigid portion for less trauma to the patient
- EUS Scope should be fully immersible for thorough cleaning

- Field of view : 100-140 degree
- Direction of view : 50-60 degree Forward-oblique or forward viewing
- Depth of field : 3 to 100 mm or less
- Insertion tube outer diameter : 11-12.6 mm
- Instrument channel diameter : 2.8 or more
- Working Length : 1250 mm or more
- Bending section : Up 190 deg, Dn 90 deg, Rt & Lt 100 deg or better

2. ULTRASONIC GASTROVIDEOSCOPE (LINEAR)

- Should have 150 degree or more electrical curved linear scanning
- Should have EUS images with four or more selectable frequencies
- Should have Colour and Power Doppler for effective confirmation of blood flow
- Distal end should have short rigid portion for less trauma to the patient
- Videoscope should have FNA (therapeutic) capability
- EUS Scope should be fully immersible for thorough cleaning
- Better to have compatibility of special light function such as NBI, FICE and i-scan.

- Field of view : 100-140 degree
- Direction of view : 40-60 degree Forward-oblique or forward viewing
- Depth of field : 3 to 100 mm or less
- Insertion tube outer diameter : 11-12.6 mm
- Distal End Diameter : 13.9 mm
- Instrument channel diameter : 3-4 mm
- Working Length : 1250 mm or more






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- Bending section : Up 150 deg, Dn 150 deg, Rt & Lt 120 deg or better

3. ULTRASOUND PROCESSOR

- Compact & easily transportable unit
- Ultrasound scanning format: Electronic Scanning
- Electronic scanning – display mode: B-mode, CH Mode, THE mode, PW Doppler
- Electronic scanning compatible with radial endoscope, linear endoscope
- Touch screen, dedicated and user friendly key board.
- Possibility to retrieve images thru USB port to record.
- Scanning Frequency – 5-12 Mhz
- Should be supplied with Online UPS System to support the Ultrasound system.

System should be supplied with Trolley with Monitor Stand to mount complete endoscopy system and ultrasound system and HD reporting software with computer system and color printer.

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03.03.2020

PURPOSED LIST OF INSTRUMENTS AND EQUIPMENTS FOR THE DEPARTMENT OF MEDICINE, RIMS,
IMPHAL

Sl. No.	Types of Instruments/Equipments with their specifications	Required Number	Purposed of utilization	Reason for proposal	Remarks
1	<p>Echo/USG machine having 2D mode, M-mode, Pulse wave (PW), continuous wave (CW) Doppler as well as colour flow Doppler mapping and with the following probes</p> <p>i) Adult cardiac Echo probe 2-3.5 Mega-hertz (phased array)</p> <p>ii) Paediatric Echo probe 5-7 Mega-hertz (phased array)</p> <p>iii) Fetal Echo probe 10-15 Mega-hertz</p> <p>iv) Carotid & Vascular Linear probe 5-10 Mega-hertz</p> <p>v) TEE probe-Adult 3D probe (17 x 13.5 x 38 mm) 3-7 Mega-hertz</p> <p>vi) USG curvilinear abdominal probe 2.5-5Mega-hertz</p> <p>vii) Thyroid probe (10-15 Mega-hertz Linear array transducer)</p>	1 each	Sick Care Unit (SCU), Cath lab and other ward patients	<p>a) Difficulty in shifting sick patients from Ward to Radiology Department & other places for bedside case.</p> <p>b) Emergency procedures like plural tapping, pericardial tapping, ascetic tapping etc. which are to be done at bed side with monitoring</p> <p>Two Gastroenterologist with Dn degree needing detect status of Liver spleen & other abdominal organ.</p> <p>Two Endocrinologist with Dn degree needing further study of Thyroid gland disorder.</p>	There are two cardiologist & other capable faculties for performing the procedures.

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