

## Technical Specification Amendments

<b>Name of Equipment -Vessel Sealing Unit for both Laparoscopy &amp; Open Surgery</b>		
	<b>Name of Equipment before amendment</b>	<b>Name of Equipment after amendment</b>
	<b>Vessel Sealing Unit for both Laparoscopy &amp; Open Surgery</b>	<b>Surgical tissue management Unit for both Laparoscopy &amp; Open Surgery</b>
<b>Sl no.</b>	<b>Technical Specification before amendments</b>	<b>Technical Specification after amendments by</b>
1	Ultrasonic generator generating ultrasound frequency in between 45-60 KHz.	No Change
2	Hand-piece with in-built transducer & silicon cable.	Transducer autoclavable
3	Hand-switch activation adopter for blade & hook probe.	Intelligent tissue monitoring
4	Cart to house the generator and accessories.	No Change
5	Single/Dual foot-switch attachment.	No Change
6	Stand-by mode for better safety.	No Change
7	System diagnostics and troubleshooting guide.	No Change
8	Warning system for malfunctioning cable, probe etc.	No Change
9	Power entry filters to suppress electromagnetic disturbances to monitors.	No Change
10	It should have a vibration range of 50-100 micrometre.	Deleted
	System Configuration Accessories, spares and consumables.	No Change
<b>4.1 B) Accessories.</b>		
1	Foot-switch with max and min pedals and cable.	No Change
2	5 mm blade system adopter.	No Change
3	All hand pieces & Scissors should be steam autoclavable.	All hand pieces & Scissors should be steam autoclavable/ ETO
4	Power Supply 200-240VAC, 50Hz fitted with Indian plug.	No Change
5	UPS of suitable rating with voltage regulation and spike protection for 30 minutes back up.	No Change
6	Should be USFDA/European CE /BIS approved Model.	No Change
<b>Name of Equipment -Flexible Endoscope</b>		
<b>Sl no.</b>	<b>Technical Specification before amendments</b>	<b>Technical Specification after amendments by</b>
A	Endoscope system should comprise of the following:	No change
	1. Video processor with light source – 1 no	No change
	2. Gastro intestinal video scope – 1 no	No change
	3. Endoscope washer – 1 no	No change
	4. Accessories	No change
	5. Hardware for recording & archiving	No change
	6. Scope Storage cabinet.	No change

	1. Technical Specification for complete GI Endoscopy system:	No change
B	Video process with light source & Monitor	No change
	1. Power supply 220VAC +/- 10 %, 50Hz	No change
	2. High-Definition Video Processor	No change
	3. Automatic white balance facility should be available on the monitor as well as on the scope.	No change
	4. Controls to freeze images, enhance a portion of frozen image (Zoom & post-processing)	No change
	5. Patient and physician data input key board.	No change
	6. Should have LED light source.	6. Should have LED/Xenon light source.
	7. LED Life 20000 hrs or more.	7. LED Life 20000 hrs or more/ Xenon life 500 hrs or more.
	8. Colot Temperature 5000K or more.	No change
	9. Compatibility with the gastro scope and colonoscope	No change
10. 21" HD Medical grade monitor. (Monitor size should be clarify from end user)	No change	
C	<b>C. GASTROSCOPE</b>	
	1. Direction of view should be zero degree	No change
	2. Field of view 120 <sup>0</sup> -140 <sup>0</sup> or more	No change
	3. Range of observation at least from 5 mm to 90 mm	Range of observation at least from 2 mm to 100 mm
	4. Angulations of tip up and down of at least :UP(190 <sup>0</sup> ),Down(90 <sup>0</sup> ), Right(100 <sup>0</sup> ),Left(100 <sup>0</sup> )	No change
	5. Insertion tube diameter of less than 10 mm	No change
	6. Distal end diameter of not more than 10.5 mm	No change
	7. Instrument channel of more than 2.5 mm	No change
	8. Working length of not less than 1000mm	No change
D	<b>D. ENDOSCOPE WASHER:</b>	
	Fully automated, programmable washer and sterilizer compatible with the above-mentioned scopes. Allows thorough cleaning and drying of inside and outside of scopes.	No change
E	<b>E. HARDWARE FOR RECORDING AND</b>	
	Suitable PC with High resolution colour laser printer	Suitable PC with High resolution colour laser printer, PC processor should be i5, 8GB RAM and 1TB
	Software for direct recording / archiving of images/video to computer and for CD conversion	No change
F	<b>F. Furniture, Storage Cabinet &amp; Accessory</b>	
	1. All consumables required for installation and standardization of system to be given free of cost	No change
	2. It should be supplied with mobile trolley.	No change
	3. The mobile trolley should have basket for keeping accessories.	No change
	4. Drying Storage cabinet should be Modularity, Clear visibility of endoscope status.	No change
	5. The Video scope should be supplied with tray system for disinfection.	No change

	6. 5 Set should include- Suction Adaptors (Disposable), Cleaning brush & Leakage tester as standard accessories.	No change
	ALL Scope,Lightsource& video processor US FDA / European CE model should be offered.	ALL Scope,Lightsource, Endowasher & video processor US FDA / European CE (with notified body) model should be offered.
	Suitable On-line UPS with 60 minutes back up Entire system.	No change
<b>Name of Equipment -Colonoscopy</b>		
A	Colonoscopy system should comprise of the following:	
	1. Video processor with light source – 1 no	No change
	2. Video colonoscope – 1 no.	No change
	3. Colonoscopy washer – 1 no.	No change
	4. Accessories.	No change
	5. Hardware for recording & archiving.	No change
	6. Scope Storage cabinet.	No change
B	Video process with light source & Monitor	
	1. Power supply 220VAC +/- 10 %, 50Hz. 2. High-Definition Video Processor.	No change
	2.High defition video processor	No change
	3. Automatic white balance facility should be available on the monitor as well as on the scope.	No change
	4. Controls to freeze images, enhance a portion of frozen image (Zoom & post-processing).	No change
	5. Patient and physician data input key board.	No change
	6. Should have LED light source.	No change
	7. LED Life 20000 hrs or more.	No change
	8. Color Temperature 5000K or more.	No change
	9. Compatibility with the gastro scope and colonoscope.	No change
	10. 21” HD Medical grade monitor.	No change
C	C. COLONOSCOPE	
	1. Direction of view should be zero degree.	No change
	2. Minimum of 140 degree of field of view.	No change
	3. Range of observation from 5 mm to 90 mm.	No change
	4. Angulations of tip not less than : 160 deg for Right/Left; 180 deg for Up/Down.	No change
	5. Insertion tube diameter of 13 mm or less, with a working length of not less than 1600 mms.	5. Insertion tube diameter of 13.2 mm or less, with a working length of not less than 1600 mms.
	6. Distal end of 14 mm or less.	No change
	7. Instrument channel of more than 3.0 mm.	
D	D. COLONOSCOPE WASHER:	
	Fully automated, programmable washer and sterilizer compatible with the above-mentioned scopes. Allows thorough cleaning and drying of inside and outside of scopes.	No change
E. HARDWARE FOR RECORDING AND ARCHIVING:		
	Suitable PC with High resolution colour laser printer	No change

	Software for direct recording / archiving of images/video to computer and for CD conversion	
F. Furniture, Storage Cabinet & Accessory		
	1. All consumables required for installation and standardization of system to be given free of cost.	No change
	2. It should be supplied with mobile trolley.	No change
	3. The mobile trolley should have basket for keeping accessories.	No change
	4. Drying Storage cabinet should be Modularity, Clear visibility of endoscope status.	No change
	5. The Video scope should be supplied with tray system for disinfection.	No change
	6. 5 Set should include- Suction Adaptors (Disposable), Cleaning brush & Leakage tester as standard accessories.	No change
	ALL Scope,Lightsource& video processor US FDA / European CE model should be offered.	No change
	Suitable On-line UPS with 60 minutes back up Entire system.	No change
	1. List of equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical manual.	No change
	2. Reagent for validation, training of to installation to be provided free of cost by manufacturer.	No change
	3. Certification:-	No change
	<input type="checkbox"/> US FDA / European CE Approved model should be offered.	No change
	<input type="checkbox"/> Electrical safety: Equipment meets electrical safety specification such as that of IEC class I.	No change
	4. Machine should be LIS compatibility.	No change
	5. Minor work for installation of medical equipment must be done by bidder at his own cost.	No change
	6. Reagent, Calibrator, Control, cleansing solution for specified no.of test and also PT and APTT may be provided free of cost for at least 1000 test.	No change



De



