

## **High Definition Laparoscopy Machine**

### **Technical Specifications**

#### **1. HD 3 Chip Camera System with recording facility:-**

The system should be truly Digital HDTV endoscopic video camera.

The system should have the minimum Resolution of 1920 x 1080 pixels, progressive scan and the consistent use of 16:9 format for Input & Output to guarantee genuine HDTV.

#### **2. Camera Head HD:-**

Camera Head resolution 1920 x 1080 pixel, 1/3" Progressives can 60HZ with 2 freely programmable Camera Head buttons and optical zoom lens of 2x.

The system should have special features:

- a) Should optimize image quality Digital Source Sampling thus maximizing hi-fidelity image transmission.
- b) The system should have Optical Zoom to enhance the quality of Image size & cross specialty standardization of the camera system, regardless of the telescope used
- c) The system should automatically optimize all settings. The system should be ready to-use as soon as it is connected to the camera control unit.

#### **3. Monitor :-**

26" FULL HD LED flat panel Monitor, wall mounted with color systems PAL, NTSC

Maximum screen resolution 1920 x 1080 pixels, Image format 16:9

16 million display colors

Video inputs: DVI, 3G-SDI, VGA, S-Video, Composite

Video outputs: DVI, 3G-SDI, Composite

Power supply 220 - 240 VAC, 50/60Hz

Monitor Stand, with integrated cable channel, for use with Monitor.

#### **4. Light Source:-**

Xenon 300Watt

1. Color Temperature –6000K
2. Bulb life counter on light source
3. Standby mode
4. Universal jaw assembly to adapt any make of fiber optic cable
5. Xenon bulb life minimum 500hours
6. Fiber Optic Light Cable, Size 4.8mm, length250cm
7. Heat –Resistant

#### **5. Fiber Optic Cable :- 500 x 10Ft**

#### **6. Monitor Arm:-**

Endoscopy Video Cart with adjustable Monitor Arm

#### **7. Recording Device :-**

1. External recording device in high definition 1080p with customized reporting, editing and storage facility.
2. Should be able to take video and still images during surgeries.
3. The system should support to take still images from recorded video footages

#### **8. High Flow Electronic Insufflator:-**

Electronic insufflators of 20 -50 litres of high flow/minute

1. Soft approach pressure control for safe recovery of abdominal pressure.
2. Audio visual alarms
3. Should be supplied with in-let and out-let gas tubings, Universal Wrench and tools required, Sterile Filter package of 10 pieces.
4. Should work with input 200 to 240Vac 50 Hz supply.
5. Should have safety certificate from a competent authority CE/FDA(US)/ STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL.
6. Copy of the certificate/test report shall be produced along with the technical bid.

#### **9. Telescope:-**

Straightforward Telescope 0°, Enlarged view, Diameter 10mm, length 42cm, autoclavable, Fiber optic light transmission incorporated

**10. LAP Hand Instruments : -**

SI No	Item Description	Qty
1	Laparoscopic Trocar 5mm	5
2.	Laparoscopic Trocar 10mm	3
	Laparoscopic Scissors Curved	2
3		
4	Laparoscopic Allies Grasper	1
5	Laparoscopic Needle Holder	2
6	Laparoscopic Bipolar Forceps	6
7	Laparoscopic Maryland Grasper	2
8 .	Laparoscopic Ring Applicator	1
9.	Vaginal Tube	1
10 .	Laparoscopic Toothed Grasper	2
11.	Laparoscopic Non Toothed Grasper	2
12.	Suction / Irrigation Cannula	2
13.	Babcock	1
14.	PCOD needle	1
15.	Myoma Injection Needle	1
16.	Veress Needle & 10mm Claw Forceps	1
17.	Reducer 10 to 5 & Knot Pusher	1

18. CCL Extracter, Silicon Suction 6 meters1