# (4) OBST & GYNAE (NIT: 13277/06-12-16

# LIST OF EQUIPMENT FOR THE DEPARTMENT OF OBST. & GYNAECOLOGY

- 1. Colposcope
- 2. Open Care Radiant Warmer
- 3. Advance Vessel Sealer device
- 4. CTG Machine
- 5. Operating Loupe
- 6. Phototherapy machine
- 7. Tuboplasty instrument set
- 8. Mycomectomy instrument set
- 9. Hysteromat
- 10. Cut down set
- 11. Postpartum ligation set
- 12. Coyo cantery

## Ocolposcope:

#### Latest HD Colposcope

- Full HD Technology with CMOS Sensor
- 1080p Resolution Sony Sensor (1920x1080)
- Aspect Ratio16:9
- 21.2 Mega Pixels
- No need of Dongle & Capture Card
- Multiple Grades of green Filter
- Recommended Lamp life 50000 hours
- Highest quality 1-52x Magnification
- Progressive Scanning Lines
- Latest Digital Matrix Processor
- Fine Advance & fast Auto/Manual focus Fine Technology
- E Flips & Mirror image Facility
- Display of genuine tissue color and tone
- Corner to Corner Uniform Brightness
- Real time display of magnification
- Acetic acid Test Timer
- Electronic Green Filter with no light loss Minimum Illumination 0.1 Lux.

## Multi-function Image processing software.

- Designed according to the guidelines of IFC
- Integrated Management of View Examination, image capture & Freeze, Recording, Observation, Processing.
- Can be integrated to LAN and HIS
- Reference pictures library to help user
- Statistics mode with automatic flow chart facility is provided.
- Printing of Multi Format photo report with Hammond graph Report
- Powerful Comparison to compare
- Colposcopy REID Evaluation

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#### Technical Specification: Radiant Warmer:

## (Open Care System with resuscitator, Venturi suction & Auxiliary Oxygen)

Controller

Electronics : High Speed Micro Controller

Mode of Operation : Air, Servo Skin (Two Probes), Manual, Pre-warm & Safe

Skin Mode Control Range : 30.0° C – 38.0° C Air Mode Control Range : 20.0° C – 38.0° C

APGAR Timer : Alerts at 1, 5, 10, 15 & 20 min (selectable)

Manual Mode Timer : 1 min – 15 min (selectable) % of Heater output : 10% to 100% in 10% increment

Memory Back Up : Equipment restores the previous settings

Programmable Mute Time : User can select the mute time

Safety Heater Cut off : If the skin sensor is removed from the Baby's skin

Over Temp Heater Cut Off : If the skin temperature is > 39° C in any Skin/Manual Mode

Temperature Sensor : Thermister Sensor

Accuracy of Skin / Air Sensor : ± 0.1° C

Accuracy of Skin / Air Probe

Interchangeability : ± 0.2° C

Calibration of Skin Probe : No need of calibration after changing new probe

Heater element : Quartz Infrared Heater Power Rating : ~ 230 V, 50 Hz, 700 W

Maximum Heater Wattage : 600 Watt Maximum Power requirement : 700 Watt

Examination Lights : Halogen / LED Bulb
X Ray facility : Underneath the bed
Mattress tilt : ± 15° on both sides
Mattress Tray : Transparent acrylic
IV pole : Max load 2.2 Kg

Castor wheels : 4" dia, 4 no.s (two with brake and two without brake)

Vital Monitor shelf : 1 no. Swivel and 1 no. fixed

Operating noise level : < 50dbA

**Controller Alarms** 

Skin Temp High :>1.0 ° C from the set temp
Skin Temp Low :<1.0 ° C from the set temp
Air Temp High :>1.0 ° C from the set temp
Air Temp Low :<1.0 ° C from the set temp

Skin Temp probe fail : If short or open circuit OR No probe Over temp : If the skin temp is > 39° C in any mode

Heater Fail : If Heater defects
System Fail : Indicates System fail
Power Fail : If AC power interruption

**Resuscitation Module** 

Cylinder Type : 480 Litres, Pin-Index A Type Flow Regulator (Optional)

Wall supply pressure : 40 – 75 psi (275 -517 kPa)
Cylinder Pressure : 2,900 psi max (19.994 kPa)

Pressure Gauge : 0 – 150 Kg/cm<sup>2</sup>

Patient Gas Supply

Flow control range : 5 – 15 LPM

Manometer Range : -20 to 100 cm H₂O

Airway Ventilation

: Manual Control **Breathing Rate** Max. Pressure Relief @ 7 LPM : 4 - 66 cm H<sub>2</sub>O

**Peak Inspiratory Pressure** 

(PIP) @ 7 LPM  $: 4 - 66 \text{ cm H}_2\text{O}$ 

Positive End Expiratory Pressure

(PEEP) @ 7 LPM

: 1 to 10 cm H<sub>2</sub>O

Delivered Oxygen

Concentration

: up to 100% depending on the gas supply

: 21 - 100%, if Blender(optional) is used

**Patient Circuit** 

: Disposable

Auxiliary O2 flow range

: 0 - 15 LPM

**Suction Circuit** 

**Suction Control** 

: O2 achieved Ventury Slow Suction with adjustable control valve

Max. Suction Vacuum Gauge : 0 - 400 mmHg: 0 - 760 mmHg

Reusable Collection Container : 500 ml

Physical Characteristics (approx. dimensions).

: 109 cm (L) x 68 cm (W) x 192 cm (H) Equipment

Weight

: 73 cm (L) x 51 cm (W) x 2 cm (H) Mattress

Mattress from Floor : 95 cm : 10 Kg Maxm. Load

: Aluminium hinged 4 no.s Acrylic Panel Side panels

Swivel Monitor Tray : 32 cm (L) x25 cm (W) x 3 cm (H)

Maxm. Load : 4.5 Kg

: ± 90° on both sides Heater Module Swivel

**Environment Reading** 

: 15.0° C to 35.0° C **Operating Temperature** Storage Temperature : -10.0° C to 60.0° C

: 15% to 90% RH, non condensing **Operating Humidity** : 15% to 90% RH, non condensing Storage Humidity : Sea Level to 1.6 Km to 14.4 Km Altitude

**Quality and Test approval** 

: ISO 9001: 2008 & ISO 13485: 2012 Quality

: IEC 60601 - 1 & IEC 60601 - 1 -2 **Electrical & Product Safety** : IEC 60601 - 2 - 50 & IEC 60601 - 2 -21

Type of protection against

: Class I Electric shock

Degree of protection against

Electric shock

**Product Classification** 

: Type B : Class II b

**CE Approval** 

# Technical specifications for Advanced Vessel sealer device :

- Single screen LCD display with four inbuilt quadrants & touch screen
- Cooling Natural convection and fan
- Connector receptacles LED illuminated connector readers on the sealer / Bipolar receptacle.
- Enclosure Magnesium
- Operating System Linux
- Generator should have TissueFect™ Tissue Sensing Technology which can read tissue: 434,000 times per second
- Software Upgradeable
- Generator should have WiFI capabilities.
- Serial port connection
- Bipolar Cable Compensation Reads cable length and width for consistent ES output
- Generator should have soft coag feature.
- Lower max jaw temperatures
- faster sealing times (1-4 seconds)
- Automatic power settings
- Simple, intuitive controls and information displays
- Auto bipolar feature; 328 ms at 0 second delay setting.
- Auto Bipolar Specifications Duration

Interrogation Frequency 434 kHz

Interrogation Current < 10 µARMS averaged over 1 second

Interrogation Voltage < 12 VRMS

Activation Impedance < 2200 Ω •} 20%

Deactivation Impedance > 4000 Ω •} 20%

Keying Delay User selectable in 0.5 second increments from 0 sec. to 2.5 sec.

- Minimum Power 1 W
- The technology allows rapid dynamic sensing of cable impedance thus adjusting cable compensation to allow for power delivery to tissue regardless of cable type that is used.
- The generator should be capable of having multistage algorithm which reduces the need for manual bar settings
- The system should produce six effects of Monopolar power output.
- The generator should have inbuilt bipolar resection function.
- The generator should be capable of operating a duty cycle of 25%, defined as 10 seconds active And 30 seconds inactive, in any mode for a period of four hours.
  - Generator should have RFID compatibility.
  - Should be compatible with Argon Plasma and smoke evacuator.
  - Should be US FDA approved for & upto 7mm vessel sealing.
  - Generator should support the adaptive Return electrode monitoring technology to prevent patient burns.
  - Should be supplied with the below mentioned FDA approved hand instruments:

In.

- Open Instrument Length: 18.8 cm Seal Length: 16.5 mm Cut Length: 14.7 mm Jaw Angle: 28 degrees .... 01 unit
- Lap instrument with 37 cm shaft length, 13mm wide jaw aperture, 20mm jaw length & 350 degrees shaft rotation, cut length 18 mm.... 01 unit
- Open instrument with 18 cm shaft length, 13mm wide jaw aperture, 36mm jaw length & 180 degrees shaft rotation, cut length 34 mm.... 01 unit
- Lap instrument Maryland with 37 cm shaft length, & 359 degrees shaft rotation, cut length 18 mm seal length 20mm.... 02 unit.
- Laparoscopic 10mm Hand instrument-----2 pcs.
- Open Reposable hand instrument with seal length more than 17mm and cut length more than 15mm-----1pcs
- · Electrode for Reposable hand instrument----6 pcs.

CTG Machine – Fetal Monitor:

For Fetal Heart Rate; TOCO & Fetal Movement

Screen size minm 12"

Programmable alarm on probe off position & abnormal FHR Built in thermal printer with 10 Rolls of paper & 10 tubes of jelly

Optional: Twin monitoring function

Equipment should be European CE / FDA approved

Price of: Thermal paper & Jelley to be quoted separately

## (5) Operating Loupe:

2.5X Magnification European CE / FDA Approved

(6) Phototherapy Machine:

Portable Mobile LED Phototherapy Unit

Intensity control facility manually from 15-70 microwatts;

Analogue timer; Eye Guard (100 nos)

Minm 24 Blue LED for treatment & White LED Light for observation

Option: Double surface to be quoted as optional with baby trolley

Price of Eye Guard as spare to be offered separately

Equipment should be ISO; CE Certified

- (7) Tuboplasty Instrument Set:
- Mycomectomy Instrument Set
- (9) Hysteromat
- (O) Cut Down set
- (II) Postpartum Ligation set

## Item SI. No. @ 9

## SPECIFICATION FOR HYSTEROMAT SUCTION IRRIGATION SYSTEM

## Special features: COMPLETE UNIT ALONGWITH ACCESSORIES

- Suction and irrigation system for use in laparoscopy and gynecology
- Irrigation function is performed by reel pump
- Maximum parameters for Laparoscopy and Hysteroscopy mode are automatically fixed by the choice of the tubing set
- Precise presetting of suction and irrigation parameters via touch keys
- Adjacent display scales for set values and actual value ensure safe monitoring of suction and irrigation levels

#### **Technical specifications:**

## Irrigation :-

With pressure control - 0-200 mmHg (for Hysteroscopy) & 0-400 mmHg (for Laparoscopy) with flow control - -500 mmHg (for Hysteroscopy) & 0-1000 mmHg (for Laparoscopy) Suction :-

Regulated - Hysteroscopy mode - 0-0.5 (50 kPa) & Laparoscopy mode - 0-0.8 (80KpA) Certified to - IEC 601 -1 CE label according to MDD

Should be compatible to the Communicating Computer System, so as to function as an integral part of the digitally controlled Operating Room under the command of the operating Surgeon

Should be USFDA approved.



# Item Sl. No. 812

## **Specifications for Cryocautry**

- SUPER DELUXE SILENCER GUN,
- Hand Operated, with on off switch
- Interchangeable probe connection facility,
- combined unit for GYNAEC, GENERAL SURGERY, E.N.T., & DERM applications with one probe attached to it, spare washers & Carrying case