

ANNEXURE-AItem No.1:- **Specifications of the Laparoscopic Set**Detail approximate

- 1) Laparoscopic Video Monitor (High definition Television) HDTV: 1 no.
Full digital HDTV compatible, superhigh resolution image with stable and flicker free image quality. Large LED screen provides clear, easy –to- see image with lower power consumption.
- 2) Laparoscopic Camera with control unit: HD camera: 1 no.
It should have unprecedented colour reproduction and highest degree of fidelity. It also should have horizontal image resolution. Compatible with all flexible videoscopes and video laparoscopes. Autoclavable manual and auto white balancing system.
- 3) Light source Xenon (≥ 300 watt): 1no.
It should have high intensity for sufficient illumination of whole abdomen and compatible with HD camera. Light intensity continuously, manually adjustable.
- 4) Fiber optic cable (5 mm & 250 cm): 1no.
- 5) HD Video system with video recorder.
- 6) Laproflattor: 1 no.
Electronic CO₂ laproflattor with tubings. High degree of safety, large display for status checking and powerful 35 L/min insufflations and responds to abdominal gas leaks by quickly returning to the preset level with automatic overpressure release for patient safety.
- 7) Laparoscopic suction irrigation machine or pelvis cleaner system –Laparo –pump & holder for irrigation stand reusable tube set, power supply cable, Hygine filter for aspiration, aspiration container, 3L autoclable pack & mounting for securing aspiration container to irrigator stand & suction irrigation tube set.
- 8) Electro-surgical unit with accessories:
It should have high frequency surgical unit more than adequate for all surgical procedures, can set a lower limit. Power –pack system gives intelligent cutting and coagulation support for initial incisions for all situations. Bi –polar coagulation has to be included in the above unit. Sophisticated self –check program: Minimum power consumption and patient’s safety in top quality must be present. Cut control for consistent regulation of cutting quality & soft coagulation with no carbonization to reduced adhesive effect. Neutral electrode safety system. Auto start and auto coagulation during bipolar coagulation. Digital error code displays electronic memory.

Hand instruments for Laparoscopy:

- i) Veress needle : It should be with spring action blunt style

12 cm :	1 no
10 cm :	1 no
8 cm :	1 no

- ii) Trocar and cannula:
 - 10 mm : 2 nos
 - 7 mm : 1 no.
 - 5 mm : 6 nos

It should consists of trocar, cannula with insufflation stopcock and multifunctional valve and must have pyramidal tip.

- iii) Reducer /reduction sleeve 5 mm: 1 no.
- iv) Telescopes:

10 mm	-	0^0	-	1no
		30^0		1no
5 mm	-	30^0	-	1no

Rigid rod lens system provides good resolution and the better dept perception. It should have uniform image brightness and autoclavable. The 30^0 forward oblique angle and permits for greater latitude for viewing underlying areas under difficult anatomical conditions.

- v) Suction Cannula :
 - 10 mm - 1no
 - 5 mm -1 no
- vi) Laparoscopic scissors:
 - Curved (Monopolar Metzenbaum dissector 5mm diameter): 1 no
 - Straight (Bipolar) : 1no
 - Peritoneal scissor : 1no
- vii) Unipolar forceps (Hook & spatula) : 2nos
- viii) Bipolar forceps : 2nos
- ix) Atraumatic forceps: Maryland Dissector forceps: : 2 nos.
- Fenestrated forceps: : 2 nos.
- x) Needle Holder (flat jaw) with handle : 2nos
- xi) Monopolar cable (reusable) : 1 no.
- xii) Bipolar cable (reusable) : 1 no
- xiii) Allis (double row of teeth) grasper : 1 no
- xiv) Aspiration needle : 1 no.
- xv) Reducer/ Reduction sleeve (5mm) : 1 no
- xvi) Grasping forceps (toothed & ratchet 5mm) : 2nos
- xvii) Laparoscopic knot pusher : 1 no
- xviii) Clip applicator (reusable) : 5mm - : 1 no
- : 10 mm : 1 no
- xix) Uterine Manipulator : 1 no
- xx) Clips(medium & large)
- xxi) Drilling needle : 1 no
- xxii) Infiltration needle : 1 no

- xxiii) Biopsy forceps (toothed punch biopsy) : 1 no
- xxiv) Myoma fixation screw : 2nos
- xxv) Tissue morcellator with base unit & accessories : 1 no
- xxvi) Vessel sealing: Enseal :

9) 3 KVA UPS for use of Laparoscopic set.

Item No.2:- **Specifications of Hysteroscopy set**

Detail approximate

Permit viewing of cervical cannula & active causes of the purpose of performing diagnose surgical procedures.

- 1) Should have unique bipolar hysteroscopic system in saline when combined with versa point.
- 2) A slim profile and outer diameter not to exceed 4.5 mm
- 3) Optics to be between 9-12 degree.
- 4) Should have provision for continuous flow irrigation.
- 5) Should have at least 6 fr and preferably 7 fr working channel.
- 6) Should supply a 3m length suitable fibre optic cable and necessary light guide adapters
- 7) Should supply kink resistant sealing caps for instruments of 3 to 7 fr size
- 8) Should supply a suitable sterilization tray for the compact hysteroscope.
- 9) Should supply the following compatible accessories
 - i) Grasping forceps : 1 no
 - ii) Flexible scissors : 1no
 - iii) Biopsy forceps : 1no
 - iv) Hook scissors : 1no
 - v) Cannula : 1no
 - vi) Button electrode /hook :
 - vii) HF Needle :
 - viii) HF connecting cable & cutting electrode.

Hysteroflow with hysterobalance

- i) Should be a closed system for accurate and easy fluid loss measurement.
- ii) Intelligent software and automatic instrument recognition for accurate measurement of the intrauterine pressure.
- iii) One stand for easy handling.
- iv) Extra large display for clearly fluid –loss information.
- v) Should be quoted with requisite tuning and adapter set for un-hindered working.

Hysterobalance will have the foll features:

Width	710 mm
Height	1400 mm

Depth	810 mm
Weight	27 Kg
(when used with pump “ Hystero Flow”	
Max. Dimensions of fluid bags to be used	
Width	300 mm
Height	440 mm

Hysteroflow will have the features:

Power supply	
Voltage	220-240V
Frequency	50-60 Hz
Max power consumption	82 W
Fuse	2xT3,15A,UL-recognised
Size	Suitable
Width	360 mm
Height	130 mm
Depth	305 mm
Weight	6.5 Kg
Safety	Suitable
Protection class	1, type BF
Pump	Suitable
Flow rate	30-500 ml/min
Pressure range	15-150 mm Hg
Overpressure	molar cuts off over 200 mm Hg.

Item No. 3:- **Specifications of Video Colposcope with electrical zoom capability:**

Detail approximate

- i) Signal processing : Digital signal processor
- ii) AGC/white balance : auto
- iii) Min. Illumination : 2500 lux or 0.2 lux
- iv) Focus distance : 30 cm to 60 cm
- v) Video output signal
- vi) Light intensity : Full milky white
- vii) Light source : super bright circular set of L.E.D
- viii) Colour temperature : 6500 k
- ix) Focus : Auto and manual
- x) Green Filter :Electronic
- xi) Magnification : 6x to 40x

Accessories

- i) Image capture system
- ii) Printer
- iii) Bivalve speculum
- iv) Vaginal side wall retractor
- v) Sponge holding forceps

- vi) Long dissecting forceps (at least 20 cm)
- vii) Endocervical Speculum
- viii) Endocervical curette
- ix) Cervical Punch Biopsy forceps
- x) Long artery straight forceps
- xi) Tray
- xii) Vaginal Wall retractor
- xiii) Sims Speculum.
- xiv) Suitable UPS

Item No. 4:- **Specifications of Cardiotocography (CTG) :**

Detail approximate

- i) Colour TFT with tilt adjustment
- ii) Wave form display and digits simultaneously.
- iii) Advanced digital signal process
- iv) Battery backup upto 2-3 hours
- v) High resolution thermal printer
- vi) Patient data storage of 10 km
- vii) Automatic fetal movement detection,
- viii) Accessories.

Item No.5:- **Specifications of Pulse Oxymeter:**

(Plathysmograph probe for adult & neonate, heart rate, PO₂ (digital).

Item No.6:- **Specifications of Obstetric labour table :-**

- Dimension 72" x 27" approximately
- Stainless top in three sections.
- Trendelen burg position adjustment
- Leg support adjustable with screw
- Hand support
- Drip stand (adjustable with screw)

Item No.7:- **Specifications of Cardic Defibrillator :**

(With Bi phasic wave facilities)

Item No.8:- **Specifications of Vacuum Extractor:-**

- i) Metallic cup with Medium size 4 nos.
- ii) Siliastic cup with Medium size 4 nos.

Item No.9:- **Radiant warmer**

Item No.10:- **Specifications of Cryosurgery equipment:**

- i) Compressed gas cylinder N₂O or CO₂
- ii) Cryo-Probes
- iii) Cryotherapy gun with handle grip & trigger
- iv) Yoke with a tightening knob & flexible gas conveying tube
- v) Pressure gauge showing cylinder pressure
- vi) Silencer (outlet)
- vii) Examining table
- viii) Adequate light source

Item No.11:- **Specifications of Electrosurgical generator for LEEP:**

Detail approximate

- i) Voltage-115V/230V
- ii) Frequency-45-65 Hz
- iii) Current-6.25 Amps/4.5 Amps
- iv) Low frequency leakage < 100 micro amps


Electrical output:

Detail approximate

- i) Frequency:-450Khz
- ii) Cut/Blend power : 6-99 watts @ 500 ohm load
- iii) Activation type : Hand switch /Foot switch
- iv) Smoke evacuation.

Accessories:-

- i) Ball electrode
- ii) Macro needle type electrodes
- iii) Loops


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