

**SPECIFICATION OF COLPO-MICRO HYSTEROSCOPE FOR EXAMINATION /
DIAGNOSIS OF DISEASE RELATED TO OF CERVIX, UTERUS IN GIRL CHILD
AND WOMEN**

For examination /diagnosis of disease related to of cervix, uterus in girl child and women

Hysteroscope Telescope	Hysteroscope telescope of size: 4mm and length : 30cm The Telescope should have contact magnification: x1 in normal mode and x60 in contact mode and should work as colpo micro hysteroscope The Telescope should have highest quality of Rod lens system for bright and clear image, should be autoclavable. The angle of the telescope should be 30 degree. Fiber optic light transmission should be incorporated with Telescope	1
Diagonstic Sheath: contineous irrigation	The diagonstic sheath having examination sheath of size 5.2 mm and outer/continuos flow sheath of size 6.2mm with leur lock attachment Sheath should be compatible with Telescope to fit the purpose.	1
Endoscopic camera system with inbuilt light source and TFT monitor	Single chip camera CCD camera system having following technical details: CCD chip size: 1/3 inch or 1/2 inch. Resolution : > 450 horizontal lines/752 horizontal lines/pixels Parfocal optical zoom lens, f = 25-50 mm/20-40mm inbuilt with camera head to adapt different size of telescopes to have full screen endoview and to maintain total soakability from disinfectant solution. The camera head should have two programmable buttons to control programme features like white balance, brightness, contrast enhancement, fibroscope filter etc. Focus ring inbuilt with camera head to maintain total soakability effect and also should not disturb surgeon to couple and decouple focus and zoom lens which prevents wear and tear and fogging effect. The Vedeo processor(Camera control Unit) should be able to produce, S-Video, Composite Video The control unit should have integrated digital Image process module The control unit should have two output to control periferal devices such as printer/Hard Drives VCR.	1



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The compact/combined unit should have inbuilt 24-50 watts HiLux high performance light source, with a color temperature of 5500 K to 5700 K. Upto 1000 Hours lamp operating time.

The unit should have SD/USB memory card for storage of still and video images

The compact unit should have 12" to 15" TFT/LCD color monitor of high resolution 800 x 600 pixels.

The compact unit should have inbuilt high membrane keyboard for entering patient data

Should have automatic high electronic shutter speed.

Minimum light sensitivity : 0.3 to 3.0 lux at $f=1.4$ mm.

Should have signal to noise ratio not less than 48 dB.

Should have on screen menu display for all parameters.

Should have digital signal processing for high quality colour reproduction.

Should have automatic white balance for all Endo Light source.

The camera head should have universal grasping mechanism to adapt most of rigid and flexible scopes.

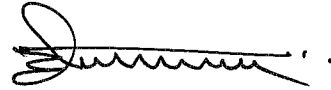
The Control unit should have digital image processing module for enhancement control.

Should have Camera head cable length between 2.5 mtr to 3.5 mtr.

The unit should be easily transportable / portable without dismantling of the camera systems.

Should have certified IEC 601-1 and CE according to Medical Devices.

Fiber Optic Cable:	Suitable fiber optic light cable of size: 3.5mm and length : 230cm	2
Pressure Cuff:	Pressure cuff of 1.5 litter with pressure manometer ranging between 0-250mmHg, with reusable silicon tubing set, footswith for punpuning to be provided with the set	1
650 VA UPS:	650 VA UPS with one hour back up including SMF batteries to be provided.	1



Executive Director (EPM)

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