

## SPECIFICATIONS OF ADULT CYSTOSCOPE AND RESECTOSCOPE FOR TURP

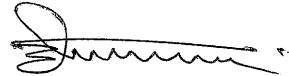
<b>Adult Cystoscope and Resectoscope for TURP</b>			
1	Cystoscope Telescope	30 degree Telescope of size: 4mm, length 30cm ( $\pm$ 3cm)	2
		Should have very high quality of rod lens system	
		Should have fiber optic light transmission incorporated.	
		The Telescope should be autoclavable.	
2	Cystoscope Sheath	Cystoscope sheath with leur lock connection of two different size should be provided	1
		20 FR and 17 FR sheath one each with slot for instrument	
		The sheath should be marked and graduated	
3	Telescope bridge	Telescope bridge with one instrument channel to fit with the cystoscope	1
4	Flexible Grasping forcep	7 FR Grasping forcep to be provided to fit the purpose	1
5	Flexible biopsy forcep	7 FR Biopsy forcep to be provided to fit the purpose	1
6	Rigid Biopsy and Grasping Forcep	Optical Rigid Biopsy forcep compatible with 20 FR Cystoscope sheath to be provided	1
7	Toomey syring 100 CC	Toomey syring of 100 cc with adaptor to fit with sheath	1
8	ELLIK Evacuator	ELLIK Evacuator with spare rubber bulb and adaptor to be provided	1
9	Urethrotome sheath	21 FR optical Urethrotom sheath with one channel to be provided	1
10	Cold knife	Straight cold knife 2 nos.	2
11	Resectoscope sheath	26 FR continuous irrigation resectoscope sheath with ceramic beak to be provided to fit the purpose with set of silicon tube. Sheath should be provided with diflecting obturator	1
12	Working Element set	Working element set passive type with standard accessories like, Kollins knife, HF cord, Protection tube, cutting loop to be provided	1
13	Cutting loop 24 FR	Cutting loop 24 FR ,12 Nos.	1 2
14	HF cord	High Frequency cord, 2 Nos.	2
15	Halogen Light source	250 Watts Halogen light source with two lamp. Changing of lamp automatic in case of failure of first lamp.Should be IEC 60601-1 and CE marked	1
16	Fiber Optic Cable	3.5mm size, length 230cm Fiber optic light cable is to be provided to fit the purpose	2
17	Brief case	Plastic good quality brief case with slot for instruments is to be provided for storage	1
18	Endovision camera system	Single Chip Endoscopy Camera system with Digital Image Process module.	1

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		Image Sensor - ½ “ CCD Chip	
		Pixels - 752 (H) x 582 (V)	
		Resolution - 450 Lines Horizontal	
		AGC - Microprocessor based	
		Minimum Sensitivity – 3 Lux (f- 1.4 mm)	
		Exposure Control – 1/50 Sec – 1/10000 Sec	
		Should have Freezing Function & Antomoire filter function.	
		Camera control unit should have accessories output to control external devices like video printer from the camera head buttons	
		Programmable Functional Keys on camera head for various functions like automatic white balance, gain control, brightness control etc.	
		Should have integrated focus control.	
		Should have digital zoom.	
		Should must have integrated Optical Parfocal zoom lens 25-50MM	
		Should have DV output and S-VHS and Composite video output	
		Should have contrast enhancement and digital filter	
		Should be certified IEC 601-1 and CE according to MDD.	
19	Video Monitor	Video Monitor:	1
		19-20” TFT screen with pedestal.	
		Viewing angle of 170 degree vertical and brightness of 450cd/m2	
		Should have: resolution of 1280 X 1024	
		Should take RGB, SDI and S-Video signals	
20	Electro surgical Unit.	Electro Surgical Unit:	1
		Microcontroller based Digital Electrosurgical Cautery 300 Watts with Digital Display Push Switch Control Provides Consistent Performance for General Surgical Procedures & delivers its Optimum & Reliable Power by using latest & Advance Technology, Convenient for all Surgical Application.	
		Unipolar as well as Bipolar facility having operating frequency between 500-700 KHz.	
		Must have Dual Mono-polar Coagulation Facility on the unit :- Two surgeons can operate mono-polar coagulation at the same time on the same patient.	
		Must have Patient Plate Contact Quality Monitoring system - With This Silicon Dual Pad Patient Plate Contact Quality Monitoring Takes Place , the moment the contact between Plate & Patient reduces it stops the HF delivery with an audio visual indications.	
		Independent Mono-polar & Bipolar Output Can be used without Any Switch over from the Machine :- This facility Enables the operating surgeon to perform surgery without any Hassle.	
		Facility for pure cut 300 watts, blend cut 250 watts, endocut 200 watts, Bipolar cut and coagulation 120- 100 watts.	
		In Accordance with IEC 60601-1 and IEC 60601-2-2; CE certified	
		Unit should be supplied with footswitch, patient plate, patient cable, hand control pencil with standard accessories	

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21	Video Trolley	Video Trolley:	1
		Suitable video trolley to be supplied for mounting equipments having minimum three self with drawer, with antistatic wheel casters, front locable, high grade of electrical insulation and earth protection. 5 Ampere socket, 5 Nos, inbuilt with trolley	
22	Tray for Sterilization	Sterilization/Disinfection Tray:	2
		Disinfection/Sterilization stainless steel tray of steel grade 304 with sieve tray to lift. Size: 27"x7"x5"(LxBxD)	
23	Formaline Chamber	Formaline Chamber:	1
		Formaline Chamber made of Virgin Acrylic 6mm thickness; size:26"x8"x8"(LxBxH) with three tray, for sterilizing the laparoscope, preferably with three tray	
24	UPS System	UPS 1.5 KVA:	1
		UPS – 1.5 KVA off line with One hour backup time( at 1000 Watts real load) with SMF Batteries. Should be able to work on wide input range between 160-270 VAC at requery between 50Hz ± 2Hz, Should use PWM technology with power conversion with single transformer arrangements with an output of 220VAC ± 5%, protection of overload, short circuit and low battery. Should have indication on front panel for mains load/battery load/ battery overload-low and MCB protection in case of short circuit. ISI/CE approved good quality Indian make.	



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