

01-11-2019

Amendment No. 2**Ref.: Tender Enquiry: HITES/PCD/MP/CLINICAL/RC-05/19-20 dated 26.09.2019.****Sub: Amendment No. 2 to the referred tender enquiry**

The following changes are being incorporated in the above referred Tender Enquiry Document

SECTION I**NOTICE INVITING TENDER (NIT)**

Tender Page & Para	Existing specification	Read As
Sch. 1 Laparoscopy set with hand instrument set		
Page 45	· Forward-Oblique Telescope 30°,enlarged view, diameter 10 mm, length 31 cm, autoclavable, fiber optic light transmission incorporated -2Qty	Forward-Oblique Telescope 30°,enlarged view, diameter 10 mm, length 30-31 cm , autoclavable, fiber optic light transmission incorporated -2Qty
	· Straight Forward Telescope 0°,enlarged view, diameter 10 mm, length31 cm, autoclavable, fiber optic lightransmission incorporated – 1 qty	Straight Forward Telescope 0°,enlarged view, diameter 10 mm, length 30- 31 cm , autoclavable, fiber optic lightransmission incorporated – 1 qty
	· Three piece laparoscopic autoclavable KELLY/MARYLAND Dissecting and Grasping Forcep, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. - 3Qty	Two or Three piece laparoscopic autoclavable KELLY/MARYLAND Dissecting and Grasping Forcep, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, insert length 33 or more cm, long, double action jaws, with ergonomic plastic/matelic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -3Qty
	· Three piece laparoscopic autoclavable CROCE-OLMI Grasping Forcep, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, double action jaws, ergonomic metal handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button.	Two or Three piece laparoscopic autoclavable CROCE-OLMI Grasping Forcep, 360 degree rotational sheeth, size 5 mm, length 33 or more cm, long, double action jaws, ergonomic plastic/matelic handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -2Qty
	· Three piece laparoscopic autoclavableBowel Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, double action jaws, ergonomic metal handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be	Two or Three piece laparoscopic autoclavableBowel Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 5 mm, length 33 or more , long, double action jaws, ergonomic plastic/matelic handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -4 qty

Tender Page & Para	Existing specification	Read As
	dismantled with the press of a button. -4 qty	
	· Three piece laparoscopic autoclavable Right Angled Dissecting and Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, double action jaws, ergonomic metal handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -2Qty	Two or Three piece laparoscopic autoclavable Right Angled Dissecting and Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 5 mm, length 33 or more , long, double action jaws, ergonomic plastic/matelic handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -2Qty
	· Three piece laparoscopic autoclavable Right Angled Dissecting and Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 10 mm, length 36 cm, long, double action jaws, ergonomic metal handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -3Qty	Two or Three piece laparoscopic autoclavable Right Angled Dissecting and Grasping Forcep, double action jaws, fenestrated, 360 degree rotational sheeth, size 10 mm, length 33 or more , long, double action jaws, ergonomic plastic/matelic handle with plastic finger rings with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. -3Qty
	· Three piece laparoscopic autoclavableMANHES Grasping Forcep with ratchet, Tiger Jaws, 2X4 teeth, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. - 2Qty	Two or Three piece laparoscopic autoclavableMANHES Grasping Forcep with ratchet, Tiger Jaws, 2X4 teeth, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 33 or more , long, double action jaws, with ergonomic plastic/matelic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. - 2Qty
	· Three piece laparoscopic autoclavableMANHES Grasping Forcep with Hemostat style ratchet, duck-bill jaws, blunt, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, single action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button - 2Qty	Two or Three piece laparoscopic autoclavableMANHES Grasping Forcep with Hemostat style ratchet, duck-bill jaws, blunt, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 33 or more , long, single action jaws, with ergonomic plastic/matelic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button -2Qty
	· Three piece laparoscopic autoclavableCLAW Grasping Forcep with ratchet, 2X3 teeth, 360 degree rotational sheeth, size 10 mm, length 36 cm, long, single action jaws, with ergonomic metal	Two or Three piece laparoscopic autoclavable CLAW Grasping Forcep with ratchet, 2X3 teeth, 360 degree rotational sheeth, size 10 mm, length 33 or more , long, single action jaws, with ergonomic plastic/matelic handle, can be dismantled with the press of a button. -2Qty

Tender Page & Para	Existing specification	Read As
	handle, can be dismantled with the press of a button. -2Qty	
	· Three piece laparoscopic autoclavable Curved METZENBAUM Scissors, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button-4Qty	Two or Three piece laparoscopic autoclavable Curved METZENBAUM Scissors, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 33 or more , long, double action jaws, with ergonomic plastic/matelic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button- 4Qty
	· Three piece laparoscopic autoclavable Hook Scissors, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button 2Qty	Two or Three laparoscopic autoclavable Hook Scissors, 360 degree rotational sheeth, with connector pin for unipolar coagulation, size 5 mm, length 33 or more , long, double action jaws, with ergonomic plastic/matelic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button 2Qty
Page 46	* Dissecting-Electrode with electrode L-tip, autoclavable, ergonomichandling, size 5 mm, length 36 cm, with connector pin for unipolar coagulation-4Qty	Dissecting-Electrode with electrode L-tip, autoclavable, ergonomichandling, size 5 mm, length 34- 36 cm , with connector pin for unipolar coagulation-4Qty
	· CUSCHIERI Liver Retractor, size 10 mm, length 36cm	CUSCHIERI Liver Retractor, size 10 mm,length 36cm -1Qty (from a reputedmaker)
	· Fan retractor 5 mm	Fan retractor5mm -1Qty (from a reputedmaker)
	· Laparoscopic liga clip applicator 10mm for LT 200, LT300 and LT 400-2each	Laparoscopic liga clip applicator 10mm for LT 200, LT300 and LT 400-2each (from a reputedmaker)
	· Tray to accommodate all hand instruments 2 no (from same manufacturer)	Tray to accommodate all hand instruments 2 no (from a reputedmaker)
	· Laproscopic right angled liga clip applicator – 1no.	Laproscopic right angled liga clip applicator -1no. (from a reputedmaker)
	· Laparoscopic atraumatic Stansky clamp :2	Laparoscopic atraumatic Stansky clamp:2 (from a reputedmaker) should be incertable from 10mm laproscopic prob.
	Trocar & Cannula:	
	· Trocar Cannula size : 11 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin	Trocar Cannula size : 10-11 mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 100 -105 mm.- -6Qty

Tender Page & Para	Existing specification	Read As
	holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.	
	* Trocar Cannula size : 6mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm-6Qty	Trocar Cannula size : 5-6 mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 100 -105 mm. -6Qty
	· Trocar Cannula size :12mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip forsafety outlet of CO2 gas. The working length of the cannula should be 105 mm-1Qty	Trocar Cannula size : 12-13.5 mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. The working length of the cannula should be 100 -105 mm.-1Qty
	· Double reducer, 11/6mm -4Qty	Double reducer, 10/6mm -4Qty
	· Nipple valve for 11mm cannula and 6mm cannula – 20 each	Nipple / washer valve for 10-11mm cannula and 5.5- 6mm cannula – 20 each
	Veress Needle	
	· VeressPneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1mm , working length 10 and 18 cms. - 2Qty each	Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, autoclavable, diameter 2.1mm , working length 100 - 120 mm and 150 - to 180 mm 10 and 18 cms. -2Qtyeach
	Injection Needle	
	· Injection needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36 cm-4Qty	Injection needle, LUER-lock, diameter 1.2 - 1.8 mm , size 5 mm, length 34 - 36 cm - 4Qty
Pg 46	Suction and Irrigation Tube	
	Suction and Irrigation Tube, anti-reflex surface with trumpet valve action, for single hand control, size 5 mm, length 36cm-4Qty	Suction and Irrigation Tube, anti-reflex surface with trumpet valve/ Two way action, for single hand control, size 5 mm, length 36cm-4Qty
Page 47	LAPAROSCOPIC NEEDLE HOLDERS	
	· Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts,	Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw

Tender Page & Para	Existing specification	Read As
	ergonomic pistol handle, with disengageable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0. -2Qty	curved to left, size: 5mm, length : 31- 33cm for use with suture material size: 0/0 to 7/0. -2Qty
	· Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to right, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.-2Qty	Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to right, size: 5mm, length : 31-33cm for use with suture material size: 0/0 to 7/0.-2Qty
	Laparoscopic Bipolar Forceps	
	· Three piece laparoscopic Bipolar Coagulating Grasping Forceps with overload tissue protection, CLERMONT-FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, O can be dismantled with the press of a button. -2Qty	Three piece laparoscopic Bipolar Coagulating Grasping Forceps with overload tissue protection, CLERMONT-FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 33-36 cm , long, double action jaw , ergonomic Plastic handle with larger contact area, O can be dismantled with the press of a button. -2Qty
	· Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps with overload tissue protection, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button - 2Qty	Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps with overload tissue protection, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 33-36 cm , long, double action jaw single action jaws, ergonomic Plastic handle with larger contact area, can bedismantled with the press (Press / Pull) of a button
	S. No 1 Three Chip High definition Camera System	
	System should have facility of controlling additional equipments like light source/ insufflators and recording device from the camera head.	System should have facility of controlling additional equipments like light source/ insufflators / recording device from the camera head.
Page 48	Parallel live display of visualization modes besides white light mode (picture-in- picture).	Deleted.
	Modular design: Digital FULL HD camera module should be compatible for use with video flexible GI endoscopes.	Modular design: Digital FULL HD camera module should be compatible for use with video flexible Urology, GI endoscopes(optional and to be quoted separately).
	Technical Specifications:	
	Image sensor:3X1/3'' CCD-Chip.	Imagesensor: 3X1/3''CCD-Chip or CMOS

Tender Page & Para	Existing specification	Read As
	Minimum light sensitivity : 1.17 Lux (f = 1.4mm).	Deleted.
	Control buttons: 3 (2 of them freelyprogrammable).	Control buttons: 2 OR MORE freely yprogrammabl
	Video output: 2 x DVI-D output, 1 x 3G-SDI output, 3 x camera input for communication with compatible camera modules, LAN connection, 4 x USB connection (2 x front,2 xback).	Suitable necessary Full HD O/P for video transmission & recording.
	Input: Keyboard input for character generator.	Input: Keyboard / Touch Panel for character generator.
	Certified to :IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class1/CF	Deleted.
	3 High Definition Medical Grade Monitor	
	LED crystal display.	Display LCD/LED
	Max. Resolution of 1920X1080. Screen diagonal – 26”.	Max. Resolution of 1920X1080. Screen diagonal - 26 inch or more.
	Specifications	
Page 49	HD TFT Flat Screen Monitor with stand size 26" , Aspect Ratio 16:9 HD format	HD TFT Flat Screen Monitor with stand size 26" or more , Aspect Ratio 16:9 HD format
	Brightness : 500 cd/m2	Deleted.
	Maximum viewing angle : 178° vertical Contrast ratio: 1400 : 1	Maximum viewing angle : 178° vertical Contrast ratio: 1000 : 1 or more
	Reaction Time – 8ms	Deleted.
	Screen Dimensions : 643 x 396 x 87mm	Deleted.
	Video Inputs: 2* DVI-D , 2* 3G SDI, 1* S Video , Composite 1* RGB/VGA , 1* RS 232 ,1* RJ 45 Interface	Suitable necessary HD O/P for video transmission & recording
	4 Xenon Light Source with Fiber optic cable(Fiber optic cable-2Qty)	Xenon/ LED Light Source (equivalent to 300W Xenon)(Fiber optic cable-2Qty) Life Time of LED Lamp 10,000 hours or more
	Color Temperatures 6000K	Color Temperatures 5800K or more
	Should be supplied with Diameter 4.8mm, Length 300cm.	Should be supplied with Diameter 4.0mm or more , Length 300cm.
	Certified To :- IEC 601-1 & UL 544 CE According to MDD , protection class 1/CF	Deleted.

Tender Page & Para	Existing specification	Read As
	5 FULL HD IMAGE/VIDEO RECORDING SYSTEM	
	Record still images and video in FULL HD at Resolution of 1920x1080P Controllable via membrane buttons on front panel, camera head buttons, footswitch mouse and keyboard	Record still images and video in FULL HD at Resolution of 1920x1080P Controllable via membrane buttons on front panel / camera head buttons / footswitch mouse and keyboard
	Enters patient data in combination of keyboard	Enters patient data in combination of keyboard/ touch screen
	Can be installed on Cart with single screen (no additional screen required) Supports network storage on file servers	Deleted.
	Network Protocol: TCP IP/ SMB	Deleted.
	Customizable print-outs for the documented information Quick print function for fast print of images	Deleted.
	HIPAA compliant	Deleted.
	Medical grade unit CE certified, ICE 60601-1 Microprocessor: RIMM (AMD) Processor at 500 Mhz. USB Silicon Keyboard with Touchpad	Deleted.
	Video signal inputs: DVI-I Dual Link, HD-SDI, Composite, S-Video, RGB, YPbPr Video Out: DVI-I Dual link	Suitable necessary Full HD I/P
	Patient data: Saved as .txt file and / or in EXIFformat	Deleted.
	Audio Input: Standard 3.5 mm stereo phone jacks	Deleted.
	Internal hard drive: 320 GB	Internal hard drive: 500 GB or more
	USB ports: USB 2.0 (1 front panel, 2 rear panel)	2 or more USB should be present
	Network: RJ45 / connection as network drive (SMB)	Deleted.
	Patient data: Saved as .txt file and / or in EXIFformat	Deleted.
Page 50	6 INSUFFLATION UNIT- 20 LIT. Special features:	INSUFFLATION UNIT- 40 or more LIT. Special features:
	Inbuilt Gas Warming unit	Inbuilt/ External Gas Warming Unit
	· Can be control with camera head, it makes operating for the surgeon a highly ergonomic and pleasant working experience.	Deleted.
	• Fully automatic, electronically controlled gas refill (e.g. in case of gas loss when instruments)changing	Deleted.

Tender Page & Para	Existing specification	Read As
	Technical specifications:	
	Gas flow/min 0-20 ltrs	Gas flow/min 0-40 ltrs or more.
	Pressure (mmHg) 0-30(mmHg)	Pressure :- 0-25(mmHg) or more
	Intra-abdominal pressure guage 0-50 (mmHg) Power supply 100-240 VAC (50/60 Hz) Dimension 305 x 164 x 233 mm (w x h x d) Weight 6 kg	Deleted.
	Certified to IEC 601 – 1, CE label according to MDD Medium CO2 cylinders - 2	Medium CO2 cylinders(5-6 Kg) - 2 Nos.
	Siliconinsufflationtubewith metal LUER lock connector – 4qty.	Siliconin sufflation tube with LUER lock connector – 4qty.
	7 Imported trolley	Trolley
	Equipment Cart , rides on 4antistatic dual wheels equipped withlocking brakes, central beam withintegrated electrical subdistributorswith 6 sockets, grounding plugs, modular in nature (should be able to add shelves and components later if required)	Equipment Cart , rides on 4antistatic dual wheels equipped withlocking brakes, central beam with integrated electrical subdistributor
	Cart should have following dimensions in mm (w x h x d): Equipment cart: 830 x 1474 x 730,	Cart should have following dimensions in mm (w x h x d): Equipment cart: 830 x 1474 x 730(Approx.),
	Caster diameter should be 125 mm It should consisting of:	Caster It should consisting of:
	Beam Package, equipment cart 1 x Shelf, size - 630 x 25 x 510, 1 x Drawer Unit with Lock,	Beam Package, equipment cart 1 x Shelf, size - 630 x 25 x 510(Approx), 1 x Drawer Unit with Lock,
Page 51	Cart should be competible to accomodate followings when required, - Atleast 4 moreshelves - Isolationtransformer - Counter balanceplate - CO2 cylinderholder - Monitor holding arms(lateral)	Cart should be competible to accomodate followings when required, - Atleast 3 or more shelves - Isolationtransformer - Counter balanceplate - CO2 cylinderholder - Monitor holding arms(lateral) Voltage Satbilizer
	1. All major core items like camera, monitor, light source, light cable, recording system, insufflator, telescope and trolley should be from same manufacturer.They should be USFDA/European CE approved/BIS approved (copy of certificate have to be enclosed with the bid)	All major core items like camera, monitor, light source, light cable, insufflator, telescope and trolley should be from same manufacturer.They should be USFDA/European CE approved/BIS approved (copy of certificate have to be enclosed with the bid)

Tender Page & Para	Existing specification	Read As
	10% hand instruments from other reputed (USFDA/European CE approved/BIS) manufacturer is allowed, but they should be compatible with core items.	25% hand instruments from other reputed (USFDA/European CE with 4 digit notify body no. approved/BIS) manufacturer is allowed, but they should be compatible with core items.
Sch. 2 Laparotomy set		
Page 52		
B	INSTRUMENTS FOR RADICAL PROSTATE SURGERY 1 each	
1	Mc Dongal Right Angle for Right Hand	Deleted
4	B P handle-Long and Curved-(Nante's Tech)	Deleted
5	Right Angle-fine and long-(Nante's Tech)	Deleted
6	Jemmy's Scissor-(Nante's Tech)	Deleted
7	Lowley's Retractor-Curved	Deleted
8	Lowley's Retractor-Straight	Deleted
9	Suction-steel-curved	Deleted
10	Lighted suction	Deleted
12	Curved needle holder double curved	Deleted
13	3x optical loupe	Deleted
14	Head light camera system with light source	Head light camera system with light source 5W LED Head light camera system with light source- -Luminous intensity up to 20,000 Lux or more Color temperature: 4500 +/- 500 K Battery service life: 4 hours or more Should be provided with a protective storage case, charging cable and 2 rechargeable lithium ion batteries
15	300 watt Xenon Dual port light source	Deleted
16	Balfour Retractor, self retaining with three blades(63x35mm) maximum spread 180mm-4 No.	Balfour Retractor, self retaining with three blades(63x35mm) maximum spread 180mm- 2 No.
Sch.3 Vascular Surgery Instrument		
Page 54		
	All above equipment should be USFDA/European CE approved/BIS approved (copy of certificate have to be enclosed with the bid)	US-FDA/European CE with 4 digit notify body no. /BIS approved / ISO 13485 with 4 digit notify body no. and Declaration of conformity)

Tender Page & Para	Existing specification	Read As
1	Titanium Ryder Needle Holder, ring handle, length - 23 cm, Suture size 5-0 and smaller- 1 No	Titanium Ryder Needle Holder, ring handle, length - 23 cm, Suture size 5-0 and smaller- 2 No
Sch.4 Operating Ultrasound		
Page 54		
T	T. System should have upgradability of TEE Transducer	Deleted.
	A laparoscopic transducer which can be used through normal laparoscopic ports (10-12 mm) with a biopsy facility to be supplied. Probe should be compatible with standard sterilization methods like immersion, ETO and Sterrad. Compatible biopsy attachment should be supplied.	Deleted.
Sch.5 Ultrasonic & Advanced Radio Frequency Energy for Cutting & coagulation in Surgery		
Page 57	Accessories :	
	1) Transducer with silicon cable- 1 No"s	Transducer with silicon cable-2 No"s
	4) Adaptors for ultrasonic instruments	Adaptors for ultrasonic instruments(If applicable)
	6) Ultrasonic 5 mm Laparoscopic hand activated curved tip coagulating probe Quantity- 1nos	Ultrasonic 7 mm Laparoscopic hand activated curved tip coagulating probe Quantity- 5nos
	7) Ultrasonic hand activated curved tip coagulating probe for open surgery: Quantity 1nos	Ultrasonic hand activated curved tip coagulating probe for open surgery: Quantity 5 nos
	8) Advanced RF/Bipolar 5 mm Laparoscopic hand activated curved tip coagulating probe: Quantity 1 no"s	Advanced RF/Bipolar 7 mm Laparoscopic hand activated curved tip coagulating probe: Quantity 5 no"s
	9) Advanced RF/Bipolar hand activated curved tip coagulating probe for open surgery Quantity 1no"s	Advanced RF/Bipolar hand activated curved tip coagulating probe for open surgery Quantity 5 no"s
Sch.6 100W Holmium Laser		
Page 57		
3	3. It should have maximum energy upto 5J or more	It should have maximum energy 3.5J or more
4	4. It should have pulse duration from 50 to 1100 microseconds.	It should have pulse duration from 50 to 1100 micro seconds. or more.
5	5. It should have Moses effect or other Stone Holding and Breaking technique to avoid retropulsion effect.	It should have Stone Holding and Breaking technique to avoid retropulsion effect.

Tender Page & Para	Existing specification	Read As
7	7. It should have dual or more laser head and in case of power failure, machine should be able to work at optimum power.	It should have at least 2 or more Generators so that in case of any one generator fails, the system should go into a case saver mode so that doctor can continue with the procedure.
8	8. It should have inbuilt powerful chiller system for better cooling.	It should have a closed loop, self-contained water to air exchanger/ chiller cooling system.
13	13. It should have dual footswitch to operate two different settings simultaneously.	It should have SINGLE / DUAL footswitch to operate two different settings simultaneously.
14	14. It should have 220vac /30Amp power rating.	Deleted
15	15. It should have internal energy meter to check the output power.	Deleted
16	16. The Holmium Laser should be supplied with high performance 200 micron meter fiber so that maximum power delivered at those fibres should be 30W or more.	The Holmium Laser should be supplied with high performance 200 micron meter fiber so that maximum power delivered at those fibres should be 20W or more.
19	19. It should have Tissue Morcellator:	
	The Tissue Morcellator should provide rapid endoscopic removal of soft tissue. Tissue Morcellator should include:	The Tissue Morcellator should provide rapid endoscopic removal of soft tissue. Tissue Morcellator should include: (Reputed Make with US-FDA/European CE with 4 digit notify body no. /BIS approved / ISO 13485 with 4 digit notify body no. and Declaration of conformity)
	One control box, Two hand pieces,	REUSABLE HAND PIECE INCLUDE SUCTION WHICH CAN BE CONTROL BY TOUCH SCREEN OR HAND PIECE
Page 58		
	Five blade sets:	Five blade sets: REUSABLE
	Outer Blade – Outer Dia 0.47cm/length 39.5cm) Inner Blade – Outer Dia 0.39cm/ Length 51.25cm	Outer Blade – Outer Dia 0.43– 0.48cm/length : 36 – 40 cm Inner Blade – Outer Dia 0.38 – 40 cm , Length : 37 – 52 cm
20	20. Compatible Continuous Flow Cystoscope and resectoscope for doing laser enucleation of prostate. (can be from a reputed make)	Compatible Continuous Flow CYSTOSCOPE WITH 4 MM 30 DEGREE TELESCOPE & LASER BRIDGE, LASER RESECTO SHEATH WITH LASER WORKING ELEMENT and 2 NO. LASER GUIDE ROAD (can be from a reputed make)
	Training of user departments’ doctors and other OT staff has to be provided by Principal company	Training of user departments’ doctors and other OT staff has to be provided by Principal company/All India distributor (should be trained from principal company)
Sch.7 Low Temperature Plasma Sterilizer 50 litre capacity		
Page 58		

Tender Page & Para	Existing specification	Read As
1	The Sterilizer should use Low Temperature H2O2 Gas Plasma for sterilization with plasma energy generated inside the sterilization.	The Sterilizer should use Low Temperature H2O2 Gas Plasma for sterilization with plasma energy generated inside or outside the sterilization.
3	Sterilizer should have total volume of 30-55 Liters.	Sterilizer should have total volume of 30-55 Liters.(Usable volume)
4	Sterilizer should have preprogrammed cycles without any room for human error due to manual programming; total cycle time should be less than 40 minutes with fastest cycle less than 30 minutes. There should be a separate cycle for flexible endoscope.	Sterilizer should have preprogrammed cycles without any room for human error due to manual programming; total cycle time should be less than 55 minutes with fastest cycle less than 40 minutes. There should be a separate cycle for flexible endoscope.
5	The quoted model should be indicated for sterilization of metal and non-metal medical devices by USFDA/510k and European CE.	The quoted model should be indicated for sterilization of metal and non-metal medical devices by USFDA/ European CE with 4 digit notified body no./ BIS Approved
6	The quoted model should be endorsed by European CE for implementing a Quality assurance system for design, manufacture and final inspection of the sterilizer	Deleted
8	Lumen sterilization claims should be validated and endorsed by USFDA/510K and European CE	Deleted
10	Sterilant cassette/bottle/cup should be able to store at room temperature and should be able to transport by air	Sterilant cassette/bottle/cup should be able to store at room temperature and should be able to transport by air or by ship as per Indian Rules of Regulations.(80% of self life should be provided)
11	11. Sterilant should be in cassette/bottle/cup form with leak proof indicator to avoid exposure to concentrated H2O2.	Sterilant should be in cassette/bottle/cup form with leak proof indicator to avoid exposure to concentrated H2O2/ ensured safety to user.
12	12. Manufacturer/bidder shall ensure uninterrupted supply of consumables like -cassettes/bottle prefilled with H2O2(Hydrogen Peroxide), Chemical Indicator strips and tape, Biological Indicator, Trays, Endoscope Holders and Tyvek rolls for wrapping instrument trays and medical devices.	Manufacturer/bidder shall ensure uninterrupted supply of consumables like -cassettes/bottle prefilled with H2O2(Hydrogen Peroxide), Chemical Indicator strips and tape, Biological Indicator, Trays and Tyvek rolls for wrapping instrument trays and medical devices.
13	13. Should provide satisfactory service report from at least 3 users of quoted model preferably government institutions of India.	Should provide satisfactory service report from at least 3 users of Plasma Sterilizer preferably government institutions of India.
16	16. The Quoted model should be endorsed by US FDA and European CE.	The quoted model should be indicated for sterilization of metal and non-metal medical devices by USFDA/ European CE with 4 digit notified body no./ BIS Approved
Sch.8 Urodynamic machine with Uroflometry		

Tender Page & Para	Existing specification	Read As
Page 59		
	1. The System should be Imported with all Verified latest certificate like European standard CE.	Deleted
2	2. The Complete Urodynamic Patient Module, Pump, PC all should be integrated within the same Moveable trolley. It should be supplied from manufacturer only. No local trolley should be supplied.	The Complete Urodynamic Patient Module, Pump, PC all should be integrated /Mounted on the the same Moveable trolley. It should be supplied from manufacturer only. No local trolley should be supplied.
5	5. The system should have portable & mobile Patient unit.	The system should have portable Patient unit.
	7. The system should have H2O pump:	
	Pump range : Changeable upto 1 ml/ min to 100 ml/min. The speed of the Pump can be changed in single & multiple steps like 1,2 3 MI/ min.	Pump range : Changeable upto 1 ml/ min to 100 ml/min. The speed of the Pump can be changed in single & multiple steps of 5 MI/ min.
	9. The System should have Integrated PC should be supplied from Manufacturer only . No Local PC should be supplied. It should be soundless Industrial PC. The Keyboard of the PC should be waterproof & can be cleaned.	The System should have Integrated PC should be supplied from reputed Manufacturer only . The Keyboard of the PC should be waterproof & can be cleaned.
11	11. Should be supplied with Anorectal manometry software.	Deleted
12	12. Software with Applications : The System should have following Tests: - Uroflowmetry - Cystometry (Filling &Voiding) - EMG - Bio-Feedback with GraphicControl - All Nomograms : PQ Study & analysis /Schaffer and other - It should be upgradable to UPP (Profilometry) & Video-Urodynamic Study anytime.	Software with Applications : The System should have following Tests: - Uroflowmetry - Cystometry (Filling &Voiding) - EMG - Bio-Feedback with GraphicControl - All Nomograms : PQ Study & analysis /Schaffer and other
13	13. The system should be available with following software features:	
	System software should have inbuilt DICOM Facility	Deleted
	The system should be supplied with Review station (At OPD) to be connected with main Urodynamic system connected with LAN so that user can see the patient data in his/her OPD.	Deleted
14	14. It should be supplied with Micturation chair for female patient.	It should be supplied with Micturation chair for patient.

Tender Page & Para	Existing specification	Read As
15	15. Urodynamic system should be supplied with Motorized Patient Couch with different movement through remote control. Should have facility of patient standing, seated, & supine positioning capabilities via hand held control. Should be compatible for doing Video Urodynamics studies. Should have the c-arm access and a wide range of positioning possibilities, make the ideal table for any fluoroscopy procedure. Should have Radiolucent carbon fiber tabletop for head-to-toe imaging.	Deleted
Page 60		
16	16. Consumables to be supplied along with Equipment:- - Two lumen cystometry catheter – 20nos. - Rectal balloon catheter – 10nos. - Reusable medex transducer – 9nos. - Cable for reusable medex transducer – 3nos. - H2o Pump tube – 50 nos. - Damping tube – 50nos	Consumables to be supplied along with Equipment:- - Two lumen cystometry catheter – 20nos. - Rectal balloon catheter – 10nos. - Reusable transducer – 9 nos. - Cable for reusable transducer – 3nos. - H2o Pump tube – 50 nos. - Damping tube – 50nos - Domes /Cartrege with 3 way stop cock - 25 nos. - Beaker / collection jug - 5 nos. - Security cover for uroflow - 10 nos. - EMG Surface electrodes - 50 nos.
Sch.9 C-ARM IMAGE INTENSIFIER		
Page 60		
	A) <u>IMAGE INTENSIFIER:</u>	
	(2 Nos): 19” Medical Display monochrome monitors, for Live & ReferenceImage display should beprovided.	2 Nos or Spite screen with 19” Medical Display monochrome monitors, for Live & ReferenceImage display should beprovided.
•	High end monitor trolley with foldable arms for monitors and actuator driven height adjustment of monitors should be provided.	High end monitor trolley for monitors and height adjustment of monitors should be provided.
	B) <u>C-ARM MOVEMENTS:</u>	
	1. Rotation: ± 180 Degrees.	Angulation/ Rotation +180 Degrees.or more.
	2. Motorized Up/down: 420mm or more	Motorized Up/down: 400mm or more
	C) <u>X-RAY GENERATOR:</u>	
	1. High Frequency (50 KHz)	High Frequency (40 KHz or more)

Tender Page & Para	Existing specification	Read As
	2. Output power should be 5KW or more.	Output power should be 2 KW or more.
	4. Radiographic mA: 100mA or more	Radiographic mA: 20 mA or more
	5. Pulse FluoroscopicmA(Average):- · up to 5mA or more (NormalMode) · up to 10mA or more (Cine/ High definitionmode)	Pulse FluoroscopicmA(Average):- up to 5mA or more (NormalMode) up to 7 mA or more (Cine/ High definitionmode)
Page 61	D) X-RAY TUBE & COLLIMATOR:	
	· Monoblock tube head having dual focus Rotating anode X-Ray tube of focal spot 0.3mm (small focus) & large focus (0.6mm) should beprovided.	Monoblock tube head having dual focus Rotating anode X-Ray tube of focal spot 0.6mm (small focus) & large focus (1.0mm) should beprovided.
	· Anode Heat Storage capacity should be 250kHU or more.	Anode Heat Storage capacity should be 80kHU or more.
	Iris & Full Parallel Shutter with Rotation collimators should be provided.	Iris Shutter with Rotation collimators should be provided.
	E) CONTROL: Control should have the following:	
	A very compact, soft touch control panel(APR with 20X3 (column x rows) LCD display on which KV, mAs, fluoro time, FmA, I.I ZOOM, Error inter lock for KV, filament, thermal are displayed on wide angle LCD.	LCD/LED Display for which KV, mAs, fluoro time, FmA, I.I ZOOM, Error inter lock for KV,
	Console Panel has Following Functions & Indications:	
	In built radio timer that enables to select mAS from 1 to 200 in 23steps forradiography.	Deleted
	• APR Mode (Anatomical programming) that is pre selected parameters are programmed in machines as per body parts selected/to be exposed. APR covers Head, chest, abdomen and extremities.	Deleted
	• Various Interlocks are displayed on LCD Screen for self diagnosis. a) KV Interlock b) FilamentInterlock c) ThermalInterlock	Deleted
Page 62	F) MEMORY SYSTEM should include the following:-	
	• Dedicated PC based Image acquisition software with Image storage capacity of > 50,000Frames.	Dedicated PC based/ SD memory card Image acquisition software with Image storage capacity of > 50,000Frames/ Images.
	Pre-Processing Features	

Tender Page & Para	Existing specification	Read As
	• Pulse fluoroscopy facility with Frame rate up to 30fps for flouro& cinemodes.	• Pulse fluoroscopy facility with Frame rate up to 30fps for flouro/ cinemodes.
	• Cine loops storage up to 150 frames (Multiple cine Loopsstorage).	Deleted
	Post processing features.	
	Frame by frame review of Cineloops	Deleted
	Measurements Features	Deleted
	• Length / Distancemeasurement • Areameasurement • Anglemeasurement	Deleted
	Connectivity & storage Features	
	• Storage of Images on CD/DVD with inbuilt DICOM viewer software enables to view images on anyPC. • DICOM 3.0 ready to connect with any DICOM 3.0 modality (like PACS, RIS/HIS/DICOM Printer) • LAN connectivity to transfer the image to anothersystem.	• Storage of Images on CD/DVD/ USB with inbuilt DICOM viewer software enables to view images on anyPC. • DICOM 3.0 ready to connect with any DICOM 3.0 modality
	I) <u>OTHER REQUIREMENTS:</u>	
	The quoted model should be USFDA approved/ European CE Certified with Notified Body No.	The quoted model should be USFDA approved/ European CE Certified with Notified Body No./ BIS Approved
Sch.10 PCNL Instruments (Nephroscope with forceps and accessories)		
Page 63		
	Nephroscope with forceps and accessories 24fr-Two	Nephroscope with forceps and accessories 24 to 25 Fr (Outer Sheeth) with sutable Nephroscope size.
2	2. Scope should have large field of view, angle of view 20-30 deg	Scope should have large field of view, angle of view 6-30 degree
3	3. Scope should have large working channel 10Fr or more.	
4	4. Operating sheath 24Fr having swivel irrigation connector with automatic locking mechanism compatible with above telescope.	Operating sheath 24- 25 Fr having swivel irrigation connector with locking mechanism compatible with above telescope.
6	6. Should be supplied with-	
	c. Grasping forceps for stone fragments and coagula, fenestrated jaws, length 38cm-2	c. Grasping forceps for stone fragments and coagula, fenestrated jaws, length 34 - 38cm-2
	6. Scope should be supplied with non-fitting sheaths which should work as amplatz sheath as well.-	Scope should be supplied with non-fitting / fitting lockable sheaths which should work as amplatz sheath as well.-

Tender Page & Para	Existing specification	Read As
	c. 3 Sheaths along with one step dilators should be supplied of the following specification 15/16f, 16.5/17.5 french sheath, dilators should have a central channel for guide wire and along with a distal curved channel for placing a safety guide wire along with a central main guide wire.	3 Sheaths along with one step dilators should be supplied of the following specification 15/16f, 16.5/18 french sheath, dilators should have a central channel for guide wire and along with a distal curved channel for placing a safety guide wire along with a central main guide wire.
8	8. It should be supplied with-	
	Amplatz PCNL Dialator set 8 – 36 Fr – 2no. (from a reputed make, USFDA/European CE Certified) 2 part PCNL puncture needle (Diamond tip) – 2, Bevelled tip -2	Amplatz PCNL Dialator set 6 - 30 Fr - 2no. (from a reputed make, USFDA/European CE Certified) 2 part PCNL puncture needle (Diamond tip) - 2, Bevelled tip -2
	3. Telescoping coaxial metal Dilators, entire set form 9Fr to 30Fr.	Telescoping coaxial metal Dilators, entire set form 9Fr to 27Fr or more
	4. Must have US FDA and CE Certificate	The quoted model should be USFDA approved/ European CE Certified with 4 digit Notified Body No./BIS Approved
Sch.11 Endoscope accessories specification (Pneumatic lithotripter Specifications)		
Page 64		
	Actively control unit moulded with ABC plastic body.	Actively control unit moulded with ABC plastic body/ Rust free material.
	Digitally controlled flow and pressure device generates highly accurate pulses in the form of single pulse operating mode and continuous pulse operating mode.	Controlled flow and pressure device generates highly accurate pulses in the form of single pulse operating mode and continuous pulse operating mode
	It should be able to control power to the hand piece for better stone fragmentation.	It should be able to control power /pressure to the hand piece for better stone fragmentation
	Design of master hand piece and digitally controlled flow should be in a way that provides minimum excursion and bilateral movement of the probe, so it gives safety to endoscope and avoid possible stone migrations.	Design of master hand piece should have controlled flow in a way that provides minimum excursion and bilateral movement of the probe, so it gives safety to endoscope and avoid possible stone migrations.
	Supply Voltage 230 VA/ 50Hz/± 10 % / Power Consumptions 30 Watts Input Gas Oxygen / Compressed Dry Air 2In Let Pressure (Minimum) (To Control Unit) 4 Kg / Cms 2 In Let Pressure (Maximum) (To Control Unit) 6 Kg / Cms 2 Out Let Pressure Indication 0 - 5 Kg / Cm by Digital display Freq. of Impacts Single Pulse Mode, Continuous Pulse Mode with twelve selectable options. Control Unit (Made from rust free molded ABS plastic	Supply Voltage 230 VA/ 50Hz/± 10 % / Power Consumptions 30 Watts Input Gas Oxygen / Compressed Dry Air 2 In Let Pressure (Minimum) (To Control Unit) 4 Kg / Cms 2 In Let Pressure (Maximum) (To Control Unit) 6 Kg / Cms 2 Out Let Pressure Indication 0 - 3 Kg / Cm² or more by Digital display Freq. of Impacts Single Pulse Mode, Continuous Pulse Mode with twelve selectable options. Control Unit (Made from rust free molded ABS plastic body) Size : L 195mm X W 240mm X H 125mm Weight : 1930gms

Tender Page & Para	Existing specification	Read As
	body) Size : L 195mm X W 240mm X H 125mm Weight : 1930 gms	
	· Hand Piece (Made from Aluminum Alloy) Weight : 105 gms Probe (Made from S.S. Alloy- as per ISO-10993	Hand Piece (Made made from aluminium alloy, should be sealed and airtight), probe (made from S S Alloy)
	· standard Ureterenoscropy Probe Size : 0.8mm, 1mm, 1.1mm, 1.2mm, 1.4mm, 1.5mm Length : 610mm	standard Ureterenoscropy Probe Size : 0.8mm, 1mm, 1.1mm/1.2mm/1.4mm/1.5mm Length : 600 - 610mm (3 each Probs)
	PCNL Probe Size : 2.5mm, 3.0mm Length : 450mm	PCNL Probe Size : 2.0mm to 3.0mm Length : 450mm(5 Probs)
	Lithobridge Probe Size : 1.5mm Length : 460mm,	Lithobridge Probe Size : 1.5mm or more SUITABLE Length,(3 Nos.)
	Should be US-FDA/European CE/ BIS approved (copy of certificate have to be enclosed with the bid)	Should be US-FDA/European CE with 4 digit notified body number/ BIS approved (copy of certificate have to be enclosed with the bid)
Sch.12 Upper & Lower Urinary tract instruments		
Page 65		
A	It should have following	
	Optical grasping forceps, double action jaws for DJ Stent removal	Grasping forceps, double action jaws for DJ Stent removal
	SachseUrethrotome Set- The set should have 21/22 Fr Urethrotome sheath with obturator and channel for Urethrotome working element. There should be a telescope bridge for use with the Urethrotome sheath with a 5 Fr channel for instruments. A supplementary half-moon sheath, that slips on the Urethrotome sheath and is side-open for introduction of the balloon-tipped catheter, should be included. The set should be provided with a passive working element and should have cold knife- 5 No"s	SachseUrethrotome Set- The set should have 20.5 /22 Fr Urethrotome sheath with obturator and channel for Urethrotome working element. There should be a telescope bridge for use with the Urethrotome sheath with a 5 Fr channel for instruments. A supplementary half-moon sheath, that slips on the Urethrotome sheath and is side-open for introduction of the balloon-tipped catheter, should be included. The set should be provided with a passive working element (If Required) and should have cold knife- 5 No"s
	Maurmeyer Stone Punch: This set should be compatible with 4mm telescope. The set should have the stone punch-working element and should be provided with compatible punch sheath with visual obturator.	Maurmeyer Stone Punch: This set should be compatible with 4mm telescope. The set should have the stone punch-working element and should be provided with compatible punch sheath with visual obturator. Along with compatible 4 mm 30 degree scope with 24 - 25 fr sheath & obturator
	Toomey syringe -100 ml & 150 ml -1 each	Toomey syringe -100 ml/ 150 ml -2 Nos.
	Added Para	Autoclavable try for instruments should be supplied.
B	Saline TUR generator set.	Generator should be from Same Make

Tender Page & Para	Existing specification	Read As
Page 66	Automatic/Compatible Smoke Evacuation facility.	
C	System should include the following	
	Electrosurgical Unit	Electrosurgical Unit should be from Same Make
D	Should be supplied with compatible electrodes-	
	All instruments should be US-FDA approved (copy of certificate have to be enclosed with the bid)	All instruments should be US-FDA / CE / BIS approved (copy of certificate have to be enclosed with the bid) $\pm 10\%$ VARIATION in all size
	Technical specs for URS	
No	URS Large	
	Accessories (for each scope) :	
	Instrument port with sealing system and quick release lock one channel	Instrument port with sealing system Incorporated/Detachable and quick release lock one channel
	Instrument port with sealing system and quick release lock two channel	Instrument port with sealing system Incorporated/Detachable and quick release lock two channel

All other contents of the tender enquiry including terms & conditions remain unaltered.

Note:

- i.** Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids.
- ii.** If EMD is submitted in the form of BG, then the validity of the BG should be at least 165 days from the date of tender opening.