

Amendment no. 05 Dated 24.12.2018

HSCC/PUR/CNCI/Kolkata/Medical Equipment/07 dt. 05.11.2018

Procurement of Medical Equipment CNCI 2nd Campus

All bidders are requested to note the following:

Name of Item	Last date & time sale/ downloading of Tender document	Last closing/submission date & time for receipt of tender	Date of opening of Techno – Commercial bids.	Earlier date of opening	Amendment Status for opening date
1.Vessel Sealer (Harmonic enseal) 2.Vessel Sealer (Ligasure) 3.Diathermy 4.Laparoscope set Operative with one endo vision system and insufflator system(one camera for two sets) 5.OT Table (imported) 6.OT Table (imported) for ENT/Head & Neck 7.Abdominal Retractor (Thompson Type) 8.Abdominal Retractor (Omnittract Type) 9.Co2 Laser 10.Trans Oral Ultrasound Surgical System (TOUSS) 11.Pediatric & Adult Flexible Fiberoptic Bronchoscope with Video Processor, Display, Light Source 12.FESS Set with Micro-debrider for Anterior Skull Base 13.Electric Powered Micro Drill System 14.Electric Dermatome 15.Therapeutic Flexible Video Laryngoscope with NBI 16.Micro Laryngoscopy including TLM (ml Scopy Set) 17.Operative Microscope 18.LED Headlight 19.OPD Wall Mounted Light	04.01.2019, up to 13.00 hrs IST	04.01.2019, 14.00 hrs IST	04.01.2019, 14.30 hrs IST	21.12.2018	Date Extended

Item no 01 – Vessel Sealer (Harmonic enseal)

Sr.	Tender Technical Specification	May please read as
	System should have a universal single generator to connect Ultrasonic energy and Advanced RF (advance bipolar) energy instruments.	No change
	Ultrasonic and bipolar energy in the system must work separately and at no point in combination,.	No change
	Ultrasonic energy should be capable of sealing 7el.	No change
	RF energy should be capable of sealing 7 mm blood vessel.	No change
	System should have the ability for software updates via USB memory stick.	No change
	System should be a single generator that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing as well as lymphatic sealing capability,.	No change

	System should be able to power ultrasonic energy instruments with 55 to 60 KHz frequency and have the ability to power ultrasonic energy instruments through 30 to 100 micron of displacement,.	No change
	Accessories:	No change
	1. Hand piece for Laparoscopic surgery	No change
	3. Transducer cleaning device.	No change
	Open Surgery Instruments (Ultrasonic cutting and coagulation device):	No change
	2. 17cm shaft, curved, tapered tip for precise dissection, seals 5mm vessels, as well as lymphatic with 16mm active blade & 240-degree activation, triggers support multiple hand positions.	No change
	3. Ultrasonic blade with changeable shaft length from 10-14mm for open surgery.	No change
	Open Surgery Instruments (Bipolar advance vessel sealing device):	No change
	1. Hand probes with 5 mm shaft diameter, 25cm long with 5mm tip width,.	No change
	Laparoscopic Surgery Instruments (Ultrasonic cutting and coagulation device)L:	No change
	1. 5mm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels up to 5mm in diameter, 36 cm shaft length, ergonomic handle.	No change
	2. 5mm Lap Hand Activated Curved Coagulating Shears capable of sealing blood vessels up to 7mm in diameter, 36cm shaft length with inbuilt transducer within the Shears.	No change
	Laparoscopic surgery instrument (Bipolar advance vessel sealing device):	No change
	1. Articulating Laparoscopic probe probes with 5mm shaft diameter, 35 cm long with 5mm tip width, Probe should have ability to rotate 360° and articulate 45° to 50° both sides.	No change

Item no 02 – Vessel Sealer (Ligasure)

Sr.	Tender Technical Specification	May please read as
	real time tissue impedance monitoring technology to deliver the selected power perfectly into a wide range of tissue types reducing thermal spread, RF interface and neuromuscular stimulation and sparks.	No change
	should have smart tissue sensing technology which monitors change in tissue impedance > 400000 times per second and adjust energy output accordingly.	No change
	Return Electrode Contact Quality Monitoring System	No change
	should have touch screen with enhanced ease use.	No change
	should have smart connector feature to plug & operate.	No change

	should have option of upgradadation through USB device	No change
	power should be adjusted from the sterile field by the suergon from monopolar pencil	No change
	instrument should have option of hand and foot control with sealing and dissection in both 10mm & 5mm laproscopic and open handsets	No change
	indicator of RE-Grasp shoud be activated as nesseceary.	No change
	seal cycle should be with autostop feature & fast sealing time of 2 to 4 seconds.	No change
	should be compatible and upgradable with argon plasma/ CUSA Module.	No change
	Defibrillator proof: this genrator complies with ANSI/ AAMI HF 18 specification for "defibrillator proof" designed and IEC 60601-2-2.	No change
	OUTPUT CHARACTERISTICS	
	Macro/High/Forced	No change
	Monopolar Coag modes	
	Dessicate	No change
	Flgurate: frequency of 30 or 57 khz into 500 ohms	No change
	Spray Coag	No change
	Electro Surgery Pencil(with power control slider) 50 nos	No change
	Reusable Bipolar Forceps	
	Bipolar Cable 50 nos	No change
	open 5mm Maryland Type Hand Instrument For Advanced Tissue fusion equipment with seal length of 20mm, with cutting facility for 18mm havin jaw apperture, of approx 13-14mm	No change
	laproscopic 5mm Maryland Type Hand Instrument For Advanced Tissue fusion equipment with seal length of 20mm, with cutting facility for 18mm havin jaw apperture, of approx 13-14mm	No change

Item no 03 – Diathermy

Sr.	Tender Technical Specification	May please read as
	Para no 1 should have smart tissue sensing technology which monitors change in tissue impedance>400000 times per second and adjust energy output accordingly.	No change
	Para no 3 three section touch screen with enhanced ease of use, simple control and intuitive information displays. Three internal microcontroller reduce system reaction time and increase the system processing speed.	/touch screen 7 inch display with enhanced case of

		use
	Para no 4 spray cogulation voltage of no more than 9000 volts peak to peak output for board, but superficial cogulation with limited capacitive copouling	No change
	Para no 7 Closed loop coagulation for all the Monopolar and bipolar modes.	Optional (Preference to be given to instrument having closed loop)
	Para no 8 three cut modes, all controlled by instant response technology, offers surgeon a variety of choices.	No change
	Para no 8a low cut for delicate tissue or endoscopic cases. More than 300khz sinusoids.	No change
	Para no 8b pure cut for clean, precise cut more than 300khz sinusoids	No change
	Para no 8c blend for foe cutting with homeostasis, more than 300khz sinusoids, recurring at 27 khz intervals. 50% duty cucle envelopes.	No change
	Para no 9a dessicate for low voltage contact cogulation suitable in endoscopic and delicate tissue work	No change
	Para no 10 three bipolar modes should have 6 or more bipolar mode.	No change
	Para no 10a Precise, Standard, Macro Setting utilize low voltage to prevent sparking	No change
	Para no 11 power can be changed from the sterile field from the monopolar pencil	No change
	Para no 15 Unit should have USFDA and European CE approved	No change
	Para no 16 IEC 60601- 1, IEC 60601-2-2, ANSI/AAMI HF 18 CIPSR11 Class A	No change
	Para no 17 Accessories	No change
	Monopolar Pencil {changes power from sterile field} 50 pcs	No change
	Bayonet Bipolar Forceps 2 pcs	No change
	Disposable Bipolar Cable 50 pcs	No change
	Extended Electrode 50 pcs	

Item no 05 –Electro motorized Operation OT Table – qty 09 Nos

Sr.	Tender Technical Specification	May please read as
1	Mobile modular operating table for patient weight upto 250kg or more in standard height, with electro motorized adjustment of height, tilt, trendelenburg / anti trendelenburg, back and leg section joints;	250 kg or more
6	Speed of all motors via Service Tool adjustable between 50% and 100%;	Optional
11	Free and directional adjustable via remote control breaks via stamps electro motorized via remote control;	Remote Control/Break Pedal
	Trendelenburg / anti-Trendelenburg : -30° / +330° Tilt : +/- 25° Height adjustment incl. table top : 600mm - 1030mm Longitudinal shift : more than 300mm Net weight : 200 kg upto 230 kg Patient load capacity : 250kg or more in any position & motion	Trendelenburg / anti-Trendelenburg : +/- 30° or more Tilt: +/- 18° to 25° Height adjustment incl. table top: 670mm-1030mm or more Net weight : 200 kg upto 230 kg or more
	The table top consists of seat section and back section	No Change
	Running gear construction with 4 double joint wheels provides plenty of spare for the surgeon's feet.	No Change
	To be added Accessories	No Change

Item Sl. No. 6 – OT Table (Imported) for ENT / Head & Neck

Sl No	Tender Technical Specifications	May please read as
1	PARA 1: The Product should be of latest model, state of the art system from a reputed manufacturer with European CE and US FDA certified	PARA 1: The Product should be of latest model, state of the art system from a reputed manufacturer with European CE / US FDA certified
2	The table should have in-built Crash Prevention system for ensuring the safety of the Base at the time of lowering the leg section.	PARA 7: No change.
3	Tabletop longitudinal sliding of 400mm or better with integrated kidney elevator. 100% Kidney position should be obtained without moving the patient, through remote control using extension / break button	PARA 8b: No change
4	Para 8g: Powered Floors lock and unlock with manual emergency release	PARA 8g: The table should have heavy duty antistatic swivel castors with powered Floors lock and unlock through hand held controller with manual emergency release
5	Para 9: The Handheld Control unit should have adequate size LCD /LED backlit screen which provides patient positioning feedback. The tabletop angles and height should be clearly indicated with live positioning information displaying each selected position. Similar features should be available on override control panel.	PARA 9: The Handheld Control unit should have adequate size LCD /LED backlit , The tabletop angles and height should be clearly indicated with live positioning information displaying each selected position. Similar features should be available on override control panel
6	Para 10: The Mattress should be a pressure management pad mattress with at least 50-80 mm thicknesses. It should be double layered, ultrasonically molded,	PARA 10: No change

	stitch free, with no seams. No Velcro System. Mattress should be of high quality that spans tabletop break for improved patient support Mattress must be antistatic and should be easy to detach from the top. The mattress should be latex, CFC and stitch free	
7	Para 12: The base column should have cover of stainless steel / acrylic capped ABS that should prevent the ingress of fluid in the system	PARA 12: No change
8	Para 14: Brakes, wheels for 360° rotation and at least two antistatic heavy-duty castors should be controlled by foot-pedals, located at head end of table base	PARA 14: At least two antistatic heavy-duty swivel castors for easy maneuverability should be controlled by hand held control or foot-pedals
9	Height adjustment: minimum 550-650 mm, maximum. 1050-1150 mm	PARA 18a: Height adjustment: minimum 500-700 mm, maximum. 1000-1200 mm
10	Para 18b: Side tilt: minimum 18-20 degree	PARA 18b: No change
11	Para 18c: Back (seat) section adjustment: minus 40 degree to plus 90 degree	PARA 18c: No change
12	Para 18d: Motorized Leg section adjustment: plus 80 degree and minus 105 degree or more with crash prevention sensors	PARA 18d: No change
13	Para 18e : Trendelenburg and Reverse-Trendelenburg adjustment: 30 degrees or more	PARA 18e: No change
	Para 18f	PARA 18f: No change
14	Para 18h: Table length (With Extendable Head Plate) should be at least 2100mm or more	PARA 18h: Table length should be at least 2100mm or more.
15	Para 18i : Powered longitudinal sliding – 350mm or more, should be possible both head side & leg side. Total long sliding should be more than 110 mm towards leg side and more than 230 mm on head side.	PARA 18i: No change.
16	Para 18j: Should have safe patient weight load capacity of at least 270 kg or more in all positions. The stationary patient weight capacity should be 450 kg or more. The literature should be supported with both types of weight capacities	PARA 18j: Should have safe patient weight load capacity of at least 250 kg or more in all positions.
17	Para 19.7 : D-shaped gel positioner - 1 No	PARA 19.7: D-shaped gel positioner or Viscous Elastic Positioner – 1 no
18	Para 19.11: Endo Uro extender for TURP surgeries : 1Pc	PARA 19.11: Deleted
19	Para 19.15: Gel Head stabilizer: Adult and Pediatric - 1 each	Para 19.15: Gel or Viscous Elastic Head stabilizer: Adult and Pediatric - 1 each
20	Para 19.17; Universal Gel pad small and large - 1 each	Para 19.17; Universal Gel or Viscous Elastic pad small and large - 1 each
21	Para 22.... Physical demonstration of the quoted model in Government Institutions (AIIMS/ TMH/ PGI) is mandatory and bid is likely to be rejected if physical demonstration is not given	PARA 22: Physical demonstration of the quoted model is mandatory and bid is likely to be rejected if physical demonstration is not given. Installation list of similar/ same model in working condition in Government Institutions for the demonstration will be helpful (optional)
22	Para 24: Should be compatible with da Vinci Robotic System (optional)	PARA 24: No change
	ADDITIONAL AMENDMENT TO SPECIFICATION	(i) The Table should be equipped with manual override mode (no electric) through control panel embedded in the central column body offering all the controls as in the hand-held controller in case of remote failure. The manual override should have all the major

		<p>functions of the OT table in case of electric failure of any kind (The previous Point No 15 should be read as Multipurpose Electro Hydraulic with manual override mobile table)</p> <p>(ii) The Table should have Interchangeable position for Head Plate so that it can connect with leg plate (optional)</p> <p>(iii) The Table should come with integrated power drive unit to provide ease of manoeuvring the table over longer distances (optional)</p>
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Item Sl. No. 9 - CO2 Laser

Sr.	Tender Technical Specification	May please read as
	Para no. 1 "Laser system should be FDA and CE certificate".	"Laser system should be US FDA / European CE certified ".
	Para no 2 "Laser machine should have power output 1 – 40 watts".	No Change

Item no 10 TOUSS CNCI Decisions

Tender Technical Specification	May please read as
3 CCD Full HD Aut o cleavable Camer a head	Should be read as: 3D Endoeeye flexible tip
Full HD Video Image Processor	Should be read as: 3D Processor
26" Full HD Medical Grade Monitor	Should be read as: 31 inch or more 3D monitor
Should come with Mounting connector, for retractor/optic/bite guard.	No change
(D) 3 CCD Full HD Autoclavable Camera Head	Should be read as: 3D Endoeeye flexible tip
The full HD camera head should have resolution of 1920 * 1080 pixels.	Deleted
Should have motorized optical zoom ranging from 0.0X to 1.8X and can be varied seamlessly.	Deleted
Should have motorized focus function which can be varied step Lesly from coarse to fine image.	Deleted
Should have 3 programmable buttons which can be configured through the processor.	Deleted

<p>The camera head must be autoclavable.</p>	<p>Should be read as: The 3D scope should be compatible with ETO & Sterrad means of reprocessing techniques The 3D scope should</p> <ul style="list-style-type: none"> • be of 10mm in diameter with High Resolution Dual Lens Chip on tip Technology • have Flexi Tip with DOV 0 degree • have orthogonal deflection facility of 0-100 deg. in all 4 directions, namely up, down, right and left. • have Integrated Light Cable and Camera connectors • be focus free with Depth of Field of 18-100mm with a wide Field of View of 80 deg. • be light weight & easy to handle • have effective working length of 330mm or above
<p>(E) Full HD Video Image Processor</p>	<p>Should be read as: 3D processor Full HD processor with the following integrated:</p> <ul style="list-style-type: none"> • Should have Dual Lens technology for Left & Right image Signals • Should have 2 High Definition Camera Processors for Left & Right Image signals • Should have a mixer for synchronizing & processing of both Left & Right Image signals from camera processors to transmit 3D image <p>Processor should be compatible with routine 3D scopes, 2D video telescope & flexible endoscopes for various applications</p> <ul style="list-style-type: none"> o 3D Polarized Glasses - 10 nos.
<p><u>(F) Powerful 300W Xenon Light Source LED Light of equivalent wattage/illumination.</u></p>	<p>No Change</p>
<p>An Autoclavable type Optic fibre light guide cable to be provided for better protection against mechanical and thermal stress.</p>	<p>Deleted</p>
<p>Length should be around 3 meter.</p>	<p>Deleted</p>
<p>The light guide cable should be autoclavable.</p>	<p>Deleted</p>
<p><u>(H) 26" Full HD Medical Grade Monitor</u></p>	<p>Should be read as: 3D medical grade Monitor of size 31inch or more</p>
<p>Should have minimum 26 inches size.</p>	<p>Should be read as: minimum size should be 31inch or more</p>

Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability	Should be read as: Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability with the following integrated features Should have 4 way angulation UP /Down : 130 deg left right : 70 degree Depth of Field : 2-50 Distal end diameter : 4.8mm Insertion tube diameter : 4.9 mm field of view : 90 degree Working channel : 2mm NBI Laser compatible
General Requirements:	
All Product should be from same manufacturers	Should be read as: All Product (except 3D monitor) should be from same manufacturers
To be Added	ADDITIONAL ITEMS TO BE QUOTED: 1) Hand Instruments <ul style="list-style-type: none"> • FK self-retaining tumour grasping forceps, flexible, with 3 grasping teeth, working length 23 cm, 4 mm diameter of shaft • Divertible blade, concave, working length 22 cm • Laryngoscope holder and chest support, with rod for adults, with rod fixation screw, for use with the laryngoscopes, 9.5 cm diameter of ring, rod length 34 cm • Rod for children (not shown), 9.5 cm diameter of ring, rod length 24 cm • Flexible tension arm, L-stand, 470 x 170 mm, 18.5" x 6.7" with lock • Adapter, for retractor/laryngoscope • Adapter, for retractor/optic/mouth gag • Instruments for Grasping and dissecting tissue: Working length 33Cm (NOTE: All Product should be from same manufacturer)

Item no 13 MICRO DRILL & SAW SYSTEM:

Tender Technical Specification	May please read as
Must be equipped with at least 3 ports to connect 3 hand pieces, 2 ports for connecting 2 foot switches & integrated irrigation facility .	Must be equipped with at least 2 ports to connect 2 hand pieces, 1 port to connect footswitch
Should run from the same Motor Control Unit meant for the Micro Drill. Should cut in same horizontal plane, Should have Maximum speed of 25000 cpm. Dimension – length 134-136mm, diameter 19-21mm, mass 0.14-0.16kg	Should have a maximum speed of 20000 – 25000 cpm/rpm

Should cut in same horizontal plane, Should have Maximum speed of 20000 cpm. Dimension: Length – 162-164mm, Diameter – 19 – 21mm, mass – 0.180-0.185kg, Excursion – 7-8 degree arc	Should have a maximum speed of 15000 – 20000 cpm/rpm
Should have Maximum speed of 14000 cpm, Dimension: Length 165-170mm, Diameter 18-20mm, Mass 0.19-0.21Kg, Excursion 3mm	Should have a maximum speed of 14000 – 15000 cpm/rpm
Compatible hand switch: 2 nos	No change
Cutting Accessories : Oscillating & Sagittal Saw Sagittal/Oscillating Blades Precision Thin (9.0 x 0.38 x 25.0mm) – 5 Nos 2. Sagittal/Oscillating Blades Precision Thin (16.5 x 0.38 x 18.5mm) –5 Nos	Oscillating/Sagittal Blades:- 1.9-10mm X 0.3-0.4mm X 25-26mm 2.15-17mm X 0.3-04mm X 17.5-19mm
Cutting Accessories : Reciprocating Saw 1. Reciprocating Blades - Cutting edge – 14.5 mm, thickness - .38mm – 5 Nos 2. Reciprocating Blades - Cutting edge – 22.5 mm, thickness - .38mm – 5 Nos	1. Cutting edge – 14-14.5 mm, thickness – 0.35-0.40mm – 5 Nos 2. Cutting edge – 22-22.5 mm, thickness - 0.35-0.40mm – 5 Nos
Cutting Accessories : Micro Drill: 1. Tapered side cutting carbide bur, Head Diameter 1.6mm – 5 Nos 2. Tapered Side cutting Bur, Head Diameter: 3.2mm – 5 Nos 3. Round (Polishing) Bur 2mm, length – 5 Nos 4. Round Bur 4mm, length: – 5 Nos 5. Round (Polishing) Bur 4.8mm, – 5 Nos 6. Round Carbide Bur 3mm, – 5 Nos 7. Round Carbide Bur 4mm, – 5 Nos 8. Round Carbide Bur 5.5mm, – 5 Nos 9. 2.0mm Wire Pass Drill Bit – 5 Nos 10. 6.0mm Round Bur – 5 Nos	Cutting Accessories : Micro Drill: 1. Tapered side cutting bur, Head Diameter 1.6mm – 5 Nos 2. Tapered Side cutting Bur, Head Diameter: 3.2mm – 5 Nos 3. Round (Polishing) Bur 2mm, length – 5 Nos 4. Round Bur 4mm, length: – 5 Nos 5. Round (Polishing) Bur 4.8mm, – 5 Nos 6. Round Bur 3mm, – 5 Nos 7. Round Bur 4mm, – 5 Nos 8. Round Bur 5.5mm, – 5 Nos 9. 2.0mm Wire Pass Drill Bit – 5 Nos 10. 6.0mm Round Bur – 5 Nos

Item no. 16-Microlaryngoscopy (MLScopy) & Transoral Laser Microsurgery (TORS)

Sr.	Tender Technical Specification	May please read as
	Anterior commissure scope Adult size-22cm 02	Anterior commissure scope Adult size-17 cm to 22cm 02
	Laryngoscope holder and chest support Adult size (ring 9.5 cm, rod 34 cm) 01	Laryngoscope holder and chest support Adult size (ring 9-9.5cm, rod 24-34 cm) 01
	Laryngoscope holder and chest support Child size (ring 9.5 cm. Rod 24 cm) 01	Laryngoscope holder and chest support Child size (ring 9-9.5cm, rod 24-34 cm) 01

Item No 17: OPERATIVE MICROSCOPE

Tender Technical Specification	May please read as
1. High intensity illumination through fiber optic high output LED (equivalent to Xenon 300W) light cable	High Intensity 180 / 300 watt Xenon Illumination through fibre optic Light Cable. Xenon illumination with integrated Xenon back-up with easy lamp change over facility. Illumination can be control easily by hand switch and footswitch as per surgeon requirement.
2. 180 dual stereo attachment with beam splitting ratio 70% / 30 %.(approx.)	180 dual stereo attachment with beam splitting ratio 70% / 30 % . Or 50%/50%(approx.) with 10x/12.5X eyepieces with Dioptre correction +5D to -8 D
8. Magnification changing: Continuous Zooming (Electric/Manual): through fire handles with magnetic brakes	Magnification changing: Continuous Zooming : Magnification should be 18x or more & motorized via multifocal lens activated through Hand and Foot Switch or Control panel. Also have facility for manually adjustable override. Both hand grip programmable for adjustment of zoom, focus, illumination and other components with friction brake mechanism /

	magnetic brakes
9. Additional Waterproof Foot Switch control optional —	Additional Waterproof Foot Switch control with 12 or more function footswitch.
11. Beam Splitter with beam splitting ratio 50% / 50% (approx.)	No change
14. Full HD/4K resolution camera head with control unit	Fully Integrated HD or 4K Medical grade Camera head with control unit
15. Full HD/4K resolution LED Medical Grade monitor not less than 21" in size	21 " - 31" Full HD or 4K Resolution LED Medical Grade monitor
16. Spare Lamps: Halogen Lamp (two no). — Xenon	Spare Lamps: Two Spare Xenon Lamps to be supplied along with conventional Xenon lamp & back up (180/300Watts)

Item no. 18 Head Light for ENT-Head & Neck

Tender Technical Specification	May please read as
Luminous intensity: max. 700,000 to 800,000 lux (at point of cover glass)	Should be read as : Luminous intensity: 150000 to 250000 lux
Color temperature: 5,000 K	Should be read as: Color temperature: 4000 to 5000K
"All Products should have USFDA approved certified".	Should be read as : All Products should have USFDA and European CE approved certified

All other terms and conditions of the tender enquiry document shall remain unchanged. Prospective bidders are advised to regularly visit HSCC website/ CPP as corrigendum /amendments etc. if any, will be notified on this portal only, no separate advertisement will published in the news papers.

**Sr. CGM-I, HSCC (I) Ltd
For & on behalf of Director CNCI, Kolkata**