

HSCC (I) Ltd
AMENDMENT –IV Dated 18.06.2019

IFB No.: **HSCC/PUR/CNCI/KOLKATA/MEDICAL EQUIPMENT/07/A Dt. 10.05.2019**

The reply to the pre bid queries for the above the referred IFB. the Bid sale, submission and opening date for the above the referred IFB has been extended & details of technical amendments given below:

Sl. No.	Description	Existing Schedule	Revised Schedule
i.	Sale date of the tender	10.05.2019 to 21.06.2019, (Up to 13.00 Hrs)	10.05.2019 to 25.06.2019, (Up to 13.00 Hrs)
ii.	Closing date & time for receipt of tender	21.06.2019, 14:00 Hrs.	25.06.2019, 14:00 Hrs. IST
iii.	Time and date of Opening	21.06.2019, 14:30 Hrs.	25.06.2019, 14:30 Hrs. IST

The Following Items (as listed in NIT) **ONLY** have been bifurcated & changed:

Sl. No.	Name of Article	Department	Qty	EMD Rs
3	Laparoscope set Operative with one endo vision system and insufflators system (one camera for two sets)	Gastrology Oncology	2	1,80,000.00
9	FESS Set with Micro-debrider for Anterior Skull Base	Head & Neck OT	1	60,000.00

AND NOW BE READ AS:

Sl. No.	Name of Article	Department	Qty	EMD Rs
3A	Laparoscope Hand Instruments	Gastrology	2 Sets	90,000.00
3B	High definition Camera System with integrated USB recording System	Oncology	1 Set	90,000.00
9A	FESS Optics	Head & Neck	1 Set	20,000.00
9B	FESS Instruments	OT	1 Set	20,000.00
9C	Micro-Debrider		1 Set	20,000.00

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPPP website for corrigendum/ amendments etc. if any, as these will be notified on these portals only. No separate advertisement will published in the newspapers in this regard.

Sr.CGM-1, HSCC (India) Limited
For and on behalf of Director, CNCI, Kolkata

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019
GENERAL QUERY:

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	OTHER INFORMATIONS	-NA-	All offline Documents (like Original Offline EMD, Affidavit etc, as per Bid Document) are to be submitted in sealed envelope at HSCC, NOIDA Office: E-6(A), Sector - I, NOIDA - 201 301.
	OTHER INFORMATIONS	-NA-	The EMD shall be in favour of HSCC (I) Ltd.
	OTHER AMENDMENTS	-NA-	<p>Last Date of Sale of Tender Document Stand Amended: From: 10.05.2019 to 21.06.2019 (upto 13:00 Hrs) To: 10.05.2019 to 25.06.2019 (upto 13:00 Hrs)</p> <p>Closing Date & Time stands Amended: From: 21.06.2019 (at 14:00 Hrs) To: 25.06.2019 (at 14:00 Hrs)</p> <p>&</p> <p>Date & Time of Bid Opening stands Amended: From: 21.06.2019 (at 14:30 Hrs) To: 25.06.2019 (at 14:30 Hrs)</p>
	-NA-		

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

TECHNICAL QUERY REPLY

Item no. 3: Laparoscope set Operative with one endo-vision system and insufflators system (one camera for two sets)

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	LAPAROSCOPES 10MM And 5mm		
	Telecope 30 10MM : 01 pc Forward oblique 30 degree enlarged view size 10MM rod lenses system, Length: 30-31cm , Autoclavable, Fiber optic light transmission incorporated.	One Bidder vide their mail have requested to amend as “Length 33cm” <hr/> Another Bidder vide their letter have requested to amend as “Length: 30-33 cm”	<i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i>
	Telecope 30 5MM : 01 pc Forward oblique Telescope 30° enlarged view, Size 5.0mm rod lenses system, Length: 29-30cm, Autoclavable, Fiber optic light transmission incorporated.		<i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i>
	<u>HAND INSTRUMENTS</u>	One Bidder vide their mail have requested “Need to identify Local Supplier” <hr/> Another Bidder vide their letter have requested that “Hand Instrument should be separated from Endovision system”	<i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i>
	<u>Trocar & Cannula 11MM:</u> Cannula Size: 11mm diameter, should have multifunction valve and automatic valve to prevent damage of sharp instrument and quipme tip lens while passing through the Cannula valve. It should have stopcock for CO2 insu. Trocar should have pyramid tip up with pin hole near the tip for safety outlet of CO2 gas. The working length of the canula should be 100-110mm. Qty 02	One Bidder vide their mail have requested “Need to identify Local Supplier”	<i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i>
	<u>Trocar & Cannula 6MM:</u> Cannuta Size:6mm diameter : should have multifunction valve and automatic valve to prevent damage of sharp instrument and quipme tip lens while passing through the Cannula valve. It should have	One Bidder vide their mail have requested “Need to identify Local Supplier”	<i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

stopcock for CO2 insu. Trocar should have pyramid tip up with pin hole near the tip for safety outlet of CO2 gas. The working length of the canula should be 100-110mm.__Qty 02		
Reducar 11-5mm.__Qty 01	One Bidder vide their mail have requested “Need to identify Local Supplier”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Veress needle: Veress needle of working length 10cm with luer lock one each.__Qty 01	One Bidder vide their mail have requested “Need to identify Local Supplier”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Grasping Forcep Fenestrated curved : __Qty 01	One Bidder vide their mail have requested “Need to identify Local Supplier”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
High Definition Camera system with integrated USB recording system		
1. Three Chip High definition Camera System		
The system should be truly Digital HDTV endoscopic video camera. The system should have the maximum Resolution of 1920X1080 pixels progressive scan and the consistent use of 16:9 formula for input & Output to guarantee genuine HDTV.	One Bidder vide their mail have requested for amendment as “ the system can be either UHD or HD endoscopic video camera with resolution of 1920x1080 or 3840x2160p ”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
The system should have facility of Optical & Digital Zoom lens to enhance the quality of image size & cross specialty usage of the camera system. Regardless of the telescope used.	One Bidder vide their mail have requested that “ our system has only digital zoom while optical zoom can be got through C-mount camera head & Zoom Coupler ”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
USB port for capturing Full HD Videos/HD in external USB drive and direct interface of USB printer to facilitate direct printouts.	One Bidder vide their mail have requested that “ Internal storage is available while recorded videos can be transfer to USB with Interface tablet. ” Another Bidder vide their letter have requested to amend as “ Optional USB port Internal recorder/ External HD Recording device must be supplied with minimum 500GB internal hard drive. ”	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
System should have facility of controlling additional equipment like light surce insufflators and recording device from the camera head.		

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

System should have facility to offer various visualization modes for surgery and diagnosis by color contrast for recognition of the finest tissue structure and their differentiation.	Another Bidder vide their letter have requested to delete this specification. Remarks: Company specific.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Parallel live display of visualisation modes besides white light mode (Picture in picture)	Another Bidder vide their letter have requested to delete this specification. Remarks: Company specific.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Modular design digital full HD camera module should be compatible for use with video flexible GI endoscopes. (Compatible with Universal Flexible GI Endoscope but not with flexible scope with camera processor)	Another Bidder vide their letter have requested to delete this specification. Remarks: Company specific.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
All equipments quoted should be from the same manufacturer to ensure best system compatibility.		
All equipments quoted should be USFDA & European CE approved.		
Technical Specification		
Image Sensor: 3X1/3" CCD-Chip	One Bidder vide their mail have requested that their image sensor is C MOS Sensor <hr/> Another Bidder vide their letter have requested to amend as "3 Chip CCD/CMOS"	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Pixel: 1920*1080	One Bidder vide their mail have requested to amend as "1920*1080 or 3840x2160p"	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
AGC: Microprocessor controlled		
Lens: Integrated zoom lens F=15-31mm (2X optical zoom)	One Bidder vide their mail have requested that they have 16-34mm and 14-29mm	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>
Min Light Sensitivity: 1.17 Lux (f=1.4mm)		
Control Buttons: 3 (2 of them freely programmable)	One Bidder vide their mail have requested to amend as "3 (2 of them freely programmable) or 2 buttons" <hr/> Another Bidder vide their letter have requested to amend as "Minimum 3"	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

<p>Video Output: 2×DVI-D output, 1×3G-SDI output, 3×camera input For communications with compatible camera module, LAN connector, 4X USB connector (2 front, 2 back)</p>	<p>One Bidder vide their mail have requested to amend as “For communications with compatible camera module, LAN connector, 4X USB connector (2 front, 2 back)”</p> <hr/> <p>Another Bidder vide their letter have requested to amend as “2×DVI output”</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i></p>
<p>Input: Keyboard Input for character generator</p>	<p>One Bidder vide their mail have requested they have tablet interface</p> <hr/> <p>Another Bidder vide their letter have requested to amend as “Optional Key board”</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i></p>
<p>Power Supply: 100-240 VAC 50/80 Hz</p>		
<p>LED Light Source: LED Light source 175 Watt</p>	<p>Another Bidder vide their letter have requested to amend as “Should be minimum 300 Watt LED”</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i></p>
<p>CO2 Electronic Insulator 30 L/M and above Flow rate:</p>	<p>One Bidder vide their mail have requested that they have 50L insufflator</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i></p>
<p>Electronic CO2 Insulator with pin index correction</p>		
<p>Should have an adjustable flow rate of 0 to 30Ltr per minute or above and a pressure range adjustable between 0-30mm Hg</p>	<p>One Bidder vide their mail have requested that “ours is more 0 to 40L/M”</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revise by CNCI as per annexure 1 enclosed herewith</i></p>
<p>Preser and actual value for pressure and flow should be displayed together on the front panel in digital display</p>		
<p>Constant, monitoring of inta-abdominal pressure, any overpressure is released immediately withback flow with ecoustic alarm</p>		
<p>Should be supplied with suitable trolley with castor wheels and appropriate electric points</p>		
<p>All the items/ equipments should be from the same manufacturerfor better system compatibility and should be USFDA approved</p>		
<p>All the sets, scopes, instruments, flexibles and accessories should be from the same manufacturer so</p>		

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	as to ensure full system compatibility and sharing of endo-vision system across all departments and specialities.		
	-NA-	<p>Another Bidder vide their have requested to add following Additional Point for incorporation in the existing Tender Technical Specification:</p> <ol style="list-style-type: none"> 1. The System should be compatible to chromo endoscopy to facilitate to see submucosal pattern. 2. USB port capturing of video & still images or external recorder from the same manufacturer. 3. Order copy can be from other dealers but same product should be acceptable. 4. Three numbers of light cable to be provided with the system. 5. Compatible trolley to be provided (Indigenous). 6. LED light source can be 175 watts or more. 	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 1 enclosed herewith</i></p>

Item no. 4: OT Table (Imported)

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	4. Inbuilt kidney bridge or break position or motorised kidney elevator.	<p>One Bidder vide their letter have requested to amend as “The table should have 70mm or more inbuilt motorized kidney elevator.”</p> <p>Another Bidder vide their letter have requested to amend as “The table should have 70mm or more inbuilt motorized kidney elevator.”</p>	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	<p>5. Should have a manual override function for all major positions and movements with an accessory remotecontrol other than the primary remote control.</p>	<p>One Bidder vide their letter have requested to amend as “Should have a manual override function for all major positions which can be operated manually by foot pump In case of Power or electrical component failure. Also It should have a electrical override panel In the table column in case of remote failure.”</p> <p>Remarks: Manual override is mandatory, in case of any electrical or remote failure all functions can be operated manually by foot pump control.</p> <p>Another Bidder vide their letter have requested to amend as “Should have integrated manual override function for all articulating positions and movements which can be controlled with an accessory remote control other than the primary remote control.”</p> <hr/> <p>One Bidder vide their letter have requested to amend as “Should have integrated manual override function for all articulating positions and movements which can be controlled with an accessory remote control other than the primary remote control.”</p> <p>Another Bidder vide their letter have requested to amend as “Should have a manual override function for all major positions and movements with an additional control unit which can be operated manually without any requirement of power other than primary remote control”</p>	<p>Tender specification prevailed.</p>
	<p>6. Radiolucent five section table top in head section, back section, seat section with perineal cut with</p>	<p>One Bidder vide their letter have requested to amend as “Radiolucent five section table top</p>	<p>Tender specification prevailed.</p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	<p>facility to seal the perineal cut has to be provided, slit leg section and inbuilt kidney bridge or inclinable backextension which performs the same function of kidney bridge. Also the head and leg plate should be interchangeable.</p>	<p>in head section, back section, seat section with perineal cut with facility to seal the perineal cut has to be provided, slit leg section and inbuilt motorized kidney elevator. Also, the head and leg plate should be interchangeable.”</p> <p>Another Bidder vide their letter have requested to amend as “Radiolucent five section table top in head section, back section, seat section with perineal cut with facility to seal the perineal cut has to be provided, slit leg section and inbuilt motorized kidney elevator. Also, the head and leg plate should be interchangeable.”</p>	
	<p>7. All metal components of the table should be made of corrosion resistant aluminium or stainless steel which is disinfectant proof, with four antistatic castors with caps and central locking facility. The base column should have telescopic cover of stainless steel and fiberglass/ ABS laminate to prevent ingress of fluid into the system.</p>	<p>One Bidder vide their letter have requested to amend as “All metal components of the table should be made of corrosion resistant aluminum or stainless steel which is disinfectant proof, with four antistatic castors with caps with auto-levelling facility with central hydraulic locking. The base column should have telescopic cover of stainless steel and fiberglass/ ABS laminate to prevent ingress of fluid into the system.”</p> <p>Another Bidder vide their letter have requested to amend as “All metal components of the table should be made of corrosion resistant aluminum or stainless steel which is disinfectant proof, with four antistatic castors with caps with auto-levelling facility with central hydraulic locking. The base column should have telescopic cover of stainless steel and</p>	<p>Tender specification prevailed.</p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		fiberglass/ ABS laminate to prevent ingress of fluid into the system.”	
	10. The table should have manual movement control facility in case of remote failure and also operate on mains/ battery power with internal/ external charger.	<p>One Bidder vide their letter have requested to amend as “The table should have integrated manual movement control facility for all articulating positions in case of remote failure and operate on mains and/or integrated battery.”</p> <p>Another Bidder vide their letter have requested to amend as “The table should have integrated manual movement control facility for all articulating positions in case of remote failure and operate on mains and/or integrated battery.”</p>	Tender specification prevailed.
	11. The table should be integrated with a self-diagnostic program	<p>One Bidder vide their letter have requested to remove this point.</p> <p>Remarks: Self-diagnostic program is not at all related with patient safety and surgical procedures. These features does not add any value to the performance / qualities of the table. It is only a sophisticated feature. Every Manufacturer has its own software to diagnose and rectify the problems. Also it does not have any value addition practically. Local service facility is important to cater to immediate after sales service requirement.</p>	Should be read as “11. The table preferably should be integrated with a self-diagnostic program.”
	-NA-	<p>Another Bidder vide their letter have requested to add the following Para</p> <ul style="list-style-type: none"> • Table should be operated by Hand control, electrical over ride panel and manual override by foot pump. • Table should have steel base covered by ABS material for easy cleaning and maintenance. • The table should have a provision to 	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>memorize any two positions. It should be erasable and reprogrammable. The provision should be available on both the remote handset and as well as the override panel.</p> <ul style="list-style-type: none"> • The table should have an emergency stoop, in case of any malfunction. The provision should be available on both the remote handset as well as the override panel. • The table should have an electrical override panel on the column of the table. • Safety lock should be available in side rails to prevent accessories falling off. 	
<p>Technical Data</p>			
	<p>A. Height adjustment – Minimum 650 mm-700 mm or below and maximum 1100 mm or above (Both maximum and minimum height is without mattress)</p>	<p>One Bidder vide their letter have requested to amend as Height adjustment – Minimum 650 mm-700 mm or below and maximum 950 mm – 1000 mm or above (Both maximum and minimum height is without mattress) Remarks: All your required surgeries required low height only.</p> <hr/> <p>Another Bidder vide their letter have requested to amend as “Height adjustment: minimum 600 mm or below, maximum. 1100 mm or above.”</p> <p>One Bidder vide their letter have requested to amend as “Height adjustment – Minimum 650 mm-700 mm or below and maximum 1050 mm or above (Both maximum and minimum height is without mattress)”</p> <p>Another Bidder vide their letter have requested to amend as Height adjustment: minimum 600 mm or below, maximum. 1100 mm or above</p>	<p>Should be read as “Height adjustment – Minimum 650 mm-700 mm or below and maximum 1050 mm or above (Both maximum and minimum height is without mattress)”</p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	<p>C. Back section adjustment 30 to 70 degree up and 40 degree down</p>	<p>One Bidder vide their letter have requested to amend as Back section adjustment 90 degree up and 90 degree down Remarks: 90 degree up is required to use in beach chair position and 90 degree down required when you stand behind the patient.</p> <hr/> <p>Another Bidder vide their letter have requested to amend as “Back section adjustment 30 to 90 degree up and 40 degree down.”</p> <p>One Bidder vide their letter have requested to amend as “Back section adjustment 30 to 90 degree up and 40 degree down”</p>	<p>Tender specification prevailed.</p>
	<p>D. Leg section adjustment 90 degree down, 10 degree up</p>	<p>One Bidder vide their letter have requested to amend as “Leg section should be motorized with 105 deg down movement for greater perineal access and 40 deg Up movement.”</p> <p>Another Bidder vide their letter have requested to amend as “Leg section should be motorized with 105 deg down movement for greater perineal access and 40 deg Up movement.”</p> <p>One Bidder vide their latter have requested to amend as “Leg section adjustment 90 degree down, 30 degree up”</p>	<p>Tender specification prevailed.</p>
	<p>F. Head rest 25 degree</p>	<p>One Bidder vide their letter have requested to amend as Head 90 degree up and 90 degree down Remarks: 90 degree up is required for better positioning and 90 degree down is required</p>	<p>Tender specification prevailed.</p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		when you stand behind the patient. Another Bidder vide their letter have requested to amend as “ “Head rest +/- 40 degree or more” ”	
	G. Longitudinal shift 300 mm or more	One Bidder vide their letter have requested to amend as Longitudinal shift 380 mm or more Remarks: It’s required for operating heavy patients. <hr/> One Bidder vide their letter have requested to amend as “ Longitudinal shift 400 mm or more in both directions.” Another Bidders vide their letter have requested to amend as “ Longitudinal shift 400 mm or more in both directions” Another Bidder vide their letter have requested to amend as “ “Longitudinal shift 280 mm or more”	Should be read as “Longitudinal shift 280 mm or more”
	H. Max width 540 mm or better	One Bidders vide their letter have requested to amend as “ Max width 530 mm or better.” Another Bidder vide their letter have requested to amend as “ Max width 530 mm or better” ”	Should be read as “Max width 530 mm or better”
	I. Length 1960mm or better	One Bidder vide their letter have requested to amend as “ “ length 2100 mm or better.” ”	Tender specification prevailed.
	J. The table should be able to take the weight of 225 kg or more in all positions and functions (including reverse orientation)	One Bidder vide their letter have requested to amend as The table should be able to take the weight of 350 kg or more in all positions and functions (including reverse orientation) Remarks: It’s required for operating heavy patients. <hr/> Another Bidder vide their letter have requested to amend as “ The table should be	Tender specification Prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>able to take the weight of 400 kg or more in normal mode and 225 or more in reverse mode or reverse orientation.”</p> <p>Another Bidder vide their letter have requested to amend as “The table should be able to take the weight of 400 kg or more in normal mode and 225 or more in reverse mode or reverse orientation.”</p>	
Specification for gynaecology			
	2. Swivel Mounted - Rinsing basin with holder – 02 no.	<p>One Bidder vide their letter have requested to amend as Rinsing basin with holder – 02 no. Remarks: It should not be swivel mounted. Swivel type will occupy more space. Basin should be under the table. So whenever it is required we just pull out and push in.</p>	Tender specification prevailed.
	5. Leg support servo assisted - 02 pair	<p>One Bidder vide their letter have requested to confirm whether it is Leg Stirrups.</p>	Tender specification prevailed.
	-NA-	<p>One Bidder vide their letter have requested for the following considerations</p> <ol style="list-style-type: none"> All the accessories name are specific imported Table name. Kindly change the accessories name to universal name. Gynec & Uro accessories list are same. So please confirm whether we need to provide two sets for each table. 	Tender specification prevailed.
	-NA-	<p>One Bidder vide their letter have requested that apart from the existing Tender Technical Specification the table should have the following important and necessary features to state of the art and a quality product:</p> <ol style="list-style-type: none"> OR table additionally equipped with integrated power drive unit to provide ease of manoeuvring when moving the table over longer distances OT Table should be future ready for 	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>Integration Technology</p> <p>3. Leg Plate down movement should have Anti-Crush Feature so that Accidental damage of Leg Plate in Low Height Position can be avoided</p> <p>4. The table should have heavy duty antistatic swivel castors with central hydraulic locking through hand held controller for easy maneuverability. It should have self-leveling floor locks.</p> <p>5. OR table should have special service software for quick, uncomplicated definition of technical status and failure tracing.</p> <p>6. RS-232 Port for Device Control & Computer Assisted Error Diagnosis for Easy Service.</p> <p>7. OR Table should have Interchangeable position for Head Plate so that it can connect with leg plate.</p> <p>8. Control of the adjustment motions: The adjustments of the hydraulically powered motions are controlled electrically from outside the intervention area via cable connected hand control. Hand pendant with backlight and/or display.</p> <p>All powered functions can be controlled manually also (override system) via an additional control unit, stored safely on the side of the lift column. Integrated into the table's foot construction, should be a foot pump operated via a retractable foot lever. It should be a fully functional manual system in the case of some type of failure or table should have a completely independent electronic drive system to maintain table in working order in the event of main motor failing.</p> <p><u>Table should be European CE and USFDA Certified</u></p>	<p>Tender specification prevailed.</p>
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CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>Another Bidder vide their letter have requested to amend as</p> <ol style="list-style-type: none">1. OR table additionally equipped with integrated power drive unit to provide ease of manoeuvring when moving the table over longer distances2. OT Table should be future ready for Integration Technology3. Leg Plate down movement should have Anti-Crush Feature so that Accidental damage of Leg Plate in Low Height Position can be avoided4. The table should have heavy duty antistatic swivel castors with central hydraulic locking through hand held controller for easy maneuverability. It should have self-leveling floor locks.5. OR table should have special service software for quick, uncomplicated definition of technical status and failure tracing.6. RS-232 Port for Device Control & Computer Assisted Error Diagnosis for Easy Service.7. OR Table should have Interchangeable position for Head Plate so that it can connect with leg plate.8. Control of the adjustment motions: <p>The adjustments of the hydraulically powered motions are controlled electrically from outside</p>	<p>Tender specification prevailed.</p>
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CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>the intervention area via cable connected hand control. Hand pendant with backlight and/or display.</p> <p>All powered functions can be controlled manually also (override system) via an additional control unit, stored safely on the side of the lift column. Integrated into the table's foot construction, should be a foot pump operated via a retractable foot lever. It should be a fully functional manual system in the case of some type of failure or table should have a completely independent electronic drive system to maintain table in working order in the event of main motor failing.</p> <p><u>Table should be European CE and USFDA Certified</u></p>	<p>Tender specification prevailed.</p>
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CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Item no. 5: Abdominal Retractor (Thompson Type)

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	1. Top Mount Strong Arm plus holder and positioner with attached frame clasp device	One Bidder vide their letter have requested as given below: Specifications not clear : Which type of retractor needed - Ring or Arm Retractor and for which specific surgery?. Single field post or double filed post required?	Should be read as “1. Top Mount Strong Arm plus holder and positioner with attached frame clasp device (For Liver, Stomach, cytoreductive surgery) 2. heavy Duty rail clamp 3. Universal Bar, large with clasper bar (Double field post) 4. Extension Bridge kit
	5. heavy Duty rail clamp		
	6. Universal Bar, large with clasper bar		
	7. Extension Bridge kit		
	All Instruments and container should be from the same manufacturer	One Bidder vide their letter have requested that if container is required, it should be added in the specifications.	Point added “ should be supplied with suitable container for sterilization”

Item no. 6: Abdominal Retractor (Omnittract Type)

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	1. Field post 12"(30cm)	One Bidder vide their letter have requested to amend as “ Should be between 18 to 24" as 12inches is very less for field post ”	Should be read as “1. Field post 18" (45 cm)”
	2. Horizontal flex bar	One Bidder vide their letter have requested amend as “ Should be changed to Vertical extension bar ”	Should be read as “2. Vertical extension bar”
	All Instruments and container should be from the same manufacturer	One Bidder vide their letter requested have that if container is required, it should be added in the specifications.	Point added “ should be supplied with suitable container for sterilization”

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Item no. 7: Trans Oral Ultrasound Surgical System (TOUSS)

Sl. No	Tendered Technical Specification	<u>Bidder's Queries</u> One Bidder vide their letter have suggested to go for “3D imaging system with flexible tip 3D scope to get the real time depth perception which would provide better images and hence better visualization” and have requested as below:	CNCI Decision for any Amendments, if any
	The System should comprise of the following:		
	(C)3 CCD Full HD Auto cleavable Camera head	Kindly amend it as 3D endoeye flexible tip	Should be read as “ (C)3D endoeye flexible tip”
	(D)Full HD Video Image Processor	Kindly amend it as 3D processor	Should be read as “ (D)3D processor”
	(F) 26" Full HD Medical Grade Monitor	Kindly amend it as 31 inch or more 3D monitor	Should be read as “ (F) 31 inch or more 3D monitor”
	(H)Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability		
	●Should come with Mounting connector, for retractor/optic/bite guard.		
	(D) 3 CCD Full HD Autoclavable Camera Head	Kindly amend it as 3D Endoeye flexible tip	Should be read as “ (D)3D Endoeye flexible tip”
	●The full HD camera head should have resolution of 1920 * 1080 pixels.	Kindly Delete	Points deleted.
	●Should have motorized optical zoom ranging from 0.0X to 1.8X and can be varied seamlessly.	Kindly Delete	Points deleted.
	●Should have motorized focus function which can be varied step Lesly from coarse to fine image.	Kindly Delete	Points deleted.
	●Should have 3 programmable buttons which can be configured through the processor.	Kindly Delete	Points deleted.
	The camera head must be autoclavable.	Kindly amend it as 3D scope should be compatible with ETO & Sterrad means of reprocessing techniques	Should be read as “3D scope should be compatible with ETO & Sterrad means of reprocessing techniques”
		Kindly add below points	
		• The 3D scope should be of 10mm in diameter with High Resolution Dual Lens Chip on tip Technology	Points added “ The 3D scope should be of 10mm in diameter with High Resolution Dual Lens Chip on tip Technology”
		• The 3D scope should have Flexi Tip with DOV 0 deg	Points added “The 3D scope should have Flexi Tip with DOV 0 deg”
		• The 3D telescope should have orthogonal	Points added “ The 3D telescope should have

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>deflection facility of 0-100 deg. in all 4 directions, namely up, down, right and left.</p> <ul style="list-style-type: none"> • The 3D scope should have Integrated Light Cable and Camera connectors • The 3D scope should be focus free with Depth of Field of 18-100mm with a wide Field of View of 80 deg. • The 3D scope should be light weight & easy to handle • The 3D scope should have effective working length of 330mm or above. 	<p>orthogonal deflection facility of 0-100 deg. in all 4 directions, namely up, down, right and left.</p> <ul style="list-style-type: none"> • The 3D scope should have Integrated Light Cable and Camera connectors • The 3D scope should be focus free with Depth of Field of 18-100mm with a wide Field of View of 80 deg. • The 3D scope should be light weight & easy to handle • The 3D scope should have effective working length of 330mm or above.”
	<u>(E) Full HD Video Image Processor</u>	Kindly amend it as 3D processor Full HD processor	Should be read as “3D processor Full HD processor “
		<p>Kindly add following points</p> <ul style="list-style-type: none"> • Should have Dual Lens technology for Left & Right image Signals 	Points added “Should have Dual Lens technology for Left & Right image Signals”
		<ul style="list-style-type: none"> • Should have 2 High Definition Camera Processors for Left & Right Image signals 	Points added “Should have 2 High Definition Camera Processors for Left & Right Image signals”
		<ul style="list-style-type: none"> • Should have a mixer for synchronizing & processing of both Left & Right Image signals from camera processors to transmit 3D image 	Points added “Should have a mixer for synchronizing & processing of both Left & Right Image signals from camera processors to transmit 3D image”
		Processor Should be compatible with routine 3D scopes, 2D video telescopes & flexible endoscopes for various applications	Points added “Processor Should be compatible with routine 3D scopes, 2D video telescopes & flexible endoscopes for various applications”
		o 3D Polarized Glasses - 10 nos.	Points added “3D Polarized Glasses - 10 nos.”
	<u>(G) Full High Definition Information Management System:</u> Should have internal hard disk drive of 500GB and should have facility of recording on Blu Ray Disc/DVD Disc or USB memory stick if required by user.	Kindly amend it as 4TB memory space	Should be read as “ (G) Full High Definition Information Management System: Should have internal hard disk drive of 4 TB and should have facility of recording on Blu Ray Disc/DVD Disc or USB memory stick if required by user.”
	<u>(F) Powerful 300W Xenon Light Source LED Light of equivalent wattage/illumination.</u>		
	An Autoclavable type Optic fibre light guide cable to be provided for better protection against mechanical and thermal stress.	Kindly Delete	Points deleted.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	Length should be around 3 meter.	Kindly Delete	Points deleted.
	The light guide cable should be autoclavable.	Kindly Delete	Points deleted.
	<u>(H) 26" Full HD Medical Grade Monitor</u>	Kindly amend it as 3D medical grade Monitor of size 31 inch or more	Should be read as "3D medical grade Monitor of size 31 inch or more"
	Should have minimum 26 inches size.	Kindy amend minimum size should be 31 inch or more	Should be read as "minimum size should be 31 inch or more"
	Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability	Kindly add following	
		Should have 4 way angulation	Points added "Should have 4 way angulation
		UP /Down : 130 deg left right : 70 degree	UP /Down : 130 deg left right : 70 degree"
		Depth of Field : 2-50	Points added "Depth of Field : 2-50"
		Distal end diameter : 4.8mm	Points added "Distal end diameter : 4.8mm"
		Insertion tube diameter : 4.9 mm	Points added "Insertion tube diameter : 4.9 mm"
		field of view : 90 degree	Points added "field of view : 90 degree"
		Working channel : 2mm	Points added "Working channel : 2mm"
		NBI	Points added "NBI"
		Laser compatible	Points added "Laser compatible"
	C.Integrated Bipolar and Ultrasonic Coagulation & Cutting Unit for Head Neck Surgery		
	Front Actuated Lap Surgery Probe 5mm diameter, length 35 cm (5pcs)	Kindy increase quantity to 15 Pcs	Should be read as "Front Actuated Lap Surgery Probe 5mm diameter, length 35 cm (15pcs)"
	Open Surgery Front Actuated Probe 5mm diameter, length 20 cm(5pcs)	Kindly increase quantity to 15 pcs	Should be read as "Open Surgery Front Actuated Probe 5mm diameter, length 20 cm(15pcs)"
	General Requirements:		
	All Product should be from same manufacturers	All Product should be from same manufacturers except 3D monitor	Should be read as "All Product should be from same manufacturers except 3D monitor"
		kindly add following instruments required for procedure:	Points added:
		1) <u>Hand Instruments</u>	1) <u>Hand Instruments</u>
		<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 	<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

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<ul style="list-style-type: none"> • Divertible blade, concave, working length 22 cm 	<ul style="list-style-type: none"> • Divertible blade, concave, working length 22 cm
		<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
		<ul style="list-style-type: none"> • Rod for children (not shown), 9.5 cm diameter of ring, rod length 24 cm 	<ul style="list-style-type: none"> • Rod for children (not shown), 9.5 cm diameter of ring, rod length 24 cm
		<ul style="list-style-type: none"> • Flexible tension arm, L-stand, 470 x 170 mm, 18.5" x 6.7" with lock 	<ul style="list-style-type: none"> • Flexible tension arm, L-stand, 470 x 170 mm, 18.5" x 6.7" with lock
		<ul style="list-style-type: none"> • Adapter, for retractor/laryngoscope 	<ul style="list-style-type: none"> • Adapter, for retractor/laryngoscope
		<ul style="list-style-type: none"> • Adapter, for retractor/optic/mouth gag 	<ul style="list-style-type: none"> • Adapter, for retractor/optic/mouth gag

Item no. 9: FESS Set with Micro-debrider for Anterior Skull Base

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	2) Specifications For Forceps for FESS		
		<p>One Bidder vide their mail have requested as given below:</p> <p>Most of the Equipment manufacturers do not manufacture instrument & feedback for the same has been received from manufacturer to isolate some equipment. To be published as separate item, which will also ensure participation from more instruments manufacturer also. Items to be separated:</p> <ul style="list-style-type: none"> • FESS Endoscopy System • FESS Instrumentation • Microdebrider 	<p><i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 2 enclosed herewith</i></p>
	Blakesley nasal Forceps, Straight, 120 mm Length, 3.6 mm - 01	<p>One Bidder vide their letter have requested to amend as "Blakesley Nasal Forceps, Straight 110 mm, Length 3.6 mm, size 0 – 01".</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 2 enclosed herewith</i></p>
	Blakesley nasal Forceps, Straight, 120 mm Length, 4.8 mm - 01	<p>One Bidder vide their letter have requested to amend as "Blakesley Nasal Forceps, Straight 110 mm, Length 4.8 mm, size 1 – 01".</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 2 enclosed herewith</i></p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Blakesley nasal Forceps, Straight, 120 mm Length, 5.6 mm - 01	One Bidder vide their letter have requested to amend as “ Blakesley Nasal Forceps, Straight 110 mm, Length 5.6 mm, size 2 – 01 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
Blakesley nasal Forceps, Upturned, 140 degree, 120 Length, 3.6 mm - 01	One Bidder vide their letter have requested to amend as “ Blakesley Nasal Forceps, 45degree Upturned, 110 mm Length, 3.6 mm, size 0 – 01 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
Blakesley nasal Forceps, Upturned, 140 degree, 120 Length, 4.2 mm - 01	One Bidder vide their letter have requested to amend as “ Blakesley Nasal Forceps, 45degree Upturned, 110 mm Length, 4.2 mm, size 1 – 01 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
OstrumAntrum punch forceps, 3x7 mm - 01	One Bidder vide their letter have requested to amend as “ OstrumAntrum Punch, upside backward cutting, straight, length 9cm ”. Remarks: Mentioned dimensions 3*7 mm is not relevant to the Ostrum Punch Instrument.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
3) Specifications For Bipolar Coagulation Forceps		
3) Specifications For Bipolar Coagulation Forceps	Another Bidder vide their email have requested to delete this specification.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
Bipolar coagulation Forceps insulating angular, Blunt for nose, with Integrated suction channel for with cut-off hole, Length 19 cm for use with Bipolar high frequency cord -02	One Bidder vide their letter have requested to amend as “ Bipolar coagulation Forceps insulating angular, Blunt for nose, with Integrated suction channel for with cut-off hole, Length 18-20 cm for use with Bipolar high frequency cord -02 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
4) Specifications for Micro-debrider		
4) Specifications for Micro-debrider	Another Bidder vide their email have requested to Separate these specification.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
(b) Multi-Function Foot Pedal		
1. Watertight, with 3 metre cable	One Bidder vide their letter have requested to amend as “ Watertight, with 1- 3 metre cable ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
3. Toggle stop – Single action to fully open or close the blade window	One Bidder vide their letter have requested to amend as “ Single action to fully open or close the blade window ”. Remarks: Company specific.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

5) Specifications for Consumables -		
(a) For Debrider		
1. A Set of Straight Blades for Debrider- 2.5 mm, 4 mm. 3.5mm 5pc each	One Bidder vide their letter have requested to amend as “ A Set of Straight Blades for Debrider- 3 mm, &4 mm.5pcs each ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
2. A Set of Angled Blades for Debrider- 4 mm – 12 deg, 40 deg, 60deg5pc each	One Bidder vide their letter have requested to amend as “ A Set of Angled Blades for Debrider- 4 mm – 12 deg, 40 deg, 65deg 5pcs each ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
4. A Set of Longer Blades for Debrider- 4 mm, 11 cm 5pc each	One Bidder vide their letter have requested to delete this point as the same items are already asked for in Point no 1 & 3.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
6. A Set of Burrs for Debrider- 3 5pc each	One Bidder vide their letter have requested to amend as “ A Set of Burrs for Debrider - 3 mm-4 mm diameter, 5pcs each ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
(b) For Otology Drill		
1. Straight attachment – Exposed tube of 80mm-85mm, length 115-120mm Qty-2	One Bidder vide their letter have requested to amend as “ Straight attachment – Exposed tube of 70 mm-75mm, length 115-120mm Qty-2 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
2. Angled Attachment – Exposed tube of 80mm-85mm, length 138 – 140mm Qty-2	One Bidder vide their letter have requested to amend as “ Angled Attachment – Exposed tube of 70mm-75mm, length 138 – 140mm Qty-2 ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
(c) Cutting Accessories :		
1. Extra Coarse Diamond (Polishing) Bur 2mm – 2 Nos	One Bidder vide their letter have requested to amend as “ Extra Coarse Diamond (Polishing) Bur 2mm – 5 Nos. each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
2. Extra Coarse Diamond (Polishing) Bur 3mm – 3 Nos	One Bidder vide their letter have requested to amend as “ Extra Coarse Diamond (Polishing) Bur 3mm – 5Noseach for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
3. Extra Coarse Diamond (Polishing) Bur 4mm – 2 Nos	One Bidder vide their letter have requested to amend as “ Extra Coarse Diamond (Polishing) Bur 4 mm – 5Noseach for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 2 enclosed herewith</i>
4. Extra Coarse Diamond (Polishing) Bur 5mm – 1	One Bidder vide their letter have requested to	<i>As per bidder query and CNCI requirement, the</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

No	amend as “ Extra Coarse Diamond (Polishing) Bur 5 mm – 5Nos each for medium and long handpiece ”.	<i>specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
5. Fluted (Cutting) Bur Aggressive 2mm – 2 Nos	One Bidder vide their letter have requested to amend as “ Fluted (Cutting) Bur Aggressive 2mm – 5Nos each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
6. Fluted (Cutting) Bur Aggressive 3mm – 3 Nos	One Bidder vide their letter have requested to amend as “ Fluted (Cutting) Bur Aggressive 3mm – 5Nos each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
7. Fluted (Cutting) Bur Aggressive 4mm – 4 Nos	One Bidder vide their letter have requested to amend as “ Fluted (Cutting) Bur Aggressive 4mm – 5Nos each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
8. Fluted (Cutting) Bur Aggressive 6mm – 2 Nos	One Bidder vide their letter have requested to amend as “ Fluted (Cutting) Bur Aggressive 6mm – 5Nos each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
9. Fluted (Cutting) Bur Aggressive 1mm – 2 Nos	One Bidder vide their letter have requested to amend as “ Fluted (Cutting) Bur Aggressive 1mm – 5Nos each for medium and long handpiece ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
(d) Burs for Stapedectomy & Cochlear Surgeries		
1. Pointed Drill 0.5mm – 2Nos	One Bidder vide their letter have requested to remove the said point from the existing Tender Technical Specification. Remarks: Recommended for not use the same Drill for Stapedectomy as torque and RPM required is very high and not suitable for stapes bone.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
2. Plain Round Drill 0.5mm – 2 Nos		
3. 0.7MM ROUND FLUTED BUR – 2 Nos		
6) Specifications For 4 K Display with High Definition Imaging Systems consisting of:		
(i) Chip CMOS/CCD High Definition Endoscopic Camera System		
• Control of ICG fluorescent viewing from the camera head	One Bidder vide their letter have requested to amend as “ Control of ICG fluorescent viewing from the Camera Head/Footswitch ”.	<i>As per bidder query and CNCI requirement, the specification has been amended/revise</i> d by CNCI as per annexure 2 enclosed herewith
• Programmable buttons to adjust the cavity	One Bidder vide their letter have requested to	<i>As per bidder query and CNCI requirement, the</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Item no. 10: ELECTRIC POWERED MICRO DRILL SYSTEM

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	MOTOR CONTROL UNIT: 1 No		
	Must be equipped with at least 3 ports to connect 3 hand pieces, 2 ports for connecting 2 foot switches & integrated irrigation facility.	One Bidder vide their letter have requested to amend as “Must be equipped with at least 2 ports, to connect 2 hand pieces and at-least 1 port to connect footswitch” . Remarks: As 3 ports for hand pieces and 2 ports for footswitch are not available with all the manufacturers.	Tender specification prevailed.
	Should be supplied with compatible irrigation Cassettes – 10 Nos.	One Bidder vide their letter have requested to amend as “Should be supplied with compatible irrigation cassettes / irrigation tubing set -10 Nos.”	Tender specification prevailed.
	FOOTSWITCH: 1 NO		
	Can operate 2-3 hand pieces sequentially attached to the same motor control unit.	One Bidder vide their letter have requested to amend as “Can operate at-least 2 hand pieces sequentially attached to the same motor control unit.” Remarks: As 3 hand piece slot are not available with all the manufacturers.	Tender specification prevailed.
	Micro Sagittal Saw: 1 No		
	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	One Bidder vide their letter have requested to amend as “Should run from the same Motor Control Unit meant for the Micro Drill. Should cut in the same Tender specification prevailed. Horizontal plane, Should have Maximum speed of 20000-25000 cpm /rpm. Dimension – length 134-136 mm, diameter 19-21 mm, mass 0.14-0.16 kg” . Remarks: Range provided for better participation.	Tender specification prevailed.
	Micro Oscillating Saw: 1 No		
	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	One Bidder vide their letter have requested to amend as “Should cut in same horizontal plane, Should have Maximum speed of 15000-20000 cpm/rpm. Dimension: Length ~	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		162-164 mm, Diameter ~ 19-21 mm, mass ~ 0.180-0.185 kg, Excursion ~ 7-8 degree arc”. Remarks: Range provided for better participation.	
Micro Reciprocating Saw: 1 No			
Should have Maximum speed of 14000 cpm, Dimension: Length 165-170mm, Diameter 18-20mm, Mass 0.19-0.21Kg, Excursion 3mm		One Bidder vide their letter have requested to amend as “ Should have maximum speed of 14000-15000 cpm/rpm, Dimension : Length 165-170 mm, Diameter 18-20 mm, Mass 0.19-0.21Kg, Excursion 3 mm ”. Remarks: Range provided for better participation.	Tender specification prevailed.
Compatible hand switch: 2 nos		One Bidder vide their letter have requested to amend as “ Optional Hand Switch: 2 Nos ”. Remarks: Company specific	Tender specification prevailed.
Cutting Accessories : Oscillating & Sagittal Saw			
1. Sagittal/Oscillating Blades Precision Thin (9.0 x 0.38 x 25.0mm) – 5 Nos		One Bidder vide their letter have requested to amend as “ 1. Oscillating cutting edge: 9-10 mm; Thickness: 0.3-0.4 mm; Length: 25-26 mm, Qty: 10 Nos. ” Remarks: Range provided for better participation and quantity need to be increased for longer use.	Tender specification prevailed.
2. Sagittal/Oscillating Blades Precision Thin (16.5 x 0.38 x 18.5mm) –5 Nos		One Bidder vide their letter have requested to amend as “ Sagittal Blades: Cutting edge: 10-16.5 mm; Thickness: 0.3-0.4 mm; Length: 15-18.5 mm, Qty: 24 Nos. ” Remarks: Range provided for better participation and quantity need to be increased for longer use.	Tender specification prevailed.
Cutting Accessories : Reciprocating Saw			
1. Reciprocating Blade – Cutting edge – 14.5 mm, thickness - .38mm – 5 Nos		One Bidder vide their letter have requested to amend as “ 1. Reciprocating Blade- Cutting edge ~ 14-14.5 mm, thickness ~ 0.25-0.38 mm – 24 Nos. ” Remarks: Range provided for better participation and quantity need to be increased for longer use.	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	2. Reciprocating Blade – Cutting edge – 22.5 mm, thickness - .38mm – 5 Nos	One Bidder vide their letter have requested to amend as “ 2. 1. Reciprocating Blade- Cutting edge ~ 22-22.5 mm, thickness ~ 0.25-0.40 mm – 24 Nos. ” Remarks: Range provided for better participation and quantity need to be increased for longer use.	Tender specification prevailed.
Cutting Accessories : Micro Drill:			
	1. Tapered side cutting carbide bur, Head Diameter 1.6mm – 5 Nos	One Bidder vide their letter have requested to remove the said point from the existing tender technical specification. Remarks: As the above are available with specific company.	Tender specification prevailed.
	2. Tapered Side cutting Bur, Head Diameter: 3.2mm – 5 Nos	One Bidder vide their letter have requested to remove the said point from the existing tender technical specification. Remarks: As the above are available with specific company.	Tender specification prevailed.
	9. 2.0mm Wire Pass Drill Bit – 5 Nos	One Bidder vide their letter have requested to remove the said point from the existing tender technical specification. Remarks: As the above are available with specific company.	Tender specification prevailed.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Item no. 12: Therapeutic Flexible VideoLaryngoscope with NBI

Sl. No	Tendered Technical Specification	Bidder's Queries One Bidder vide their letter have requested to amend as:	CNCI Decision for any Amendments, if any
1.	Required is Macintosh blades with closed European Metal finish size2, 3 and 4 with integrated camera chip and LED light illumination for obtaining more than 50000 Lux of brightness.	<p>Kindly delete Macintosh blade Required with closed European Metal finish size2, 3 and & Add following points</p> <p>a) Kindly add 3 Chip CMOS/CCD Full HD camera</p> <p>The full HD camera head should have resolution of 1920 * 1080 pixels. Should have 3 programmable buttons which can be configured through the processor Should have motorized focus function</p> <p>b) Kindly add Full HD Video Image processor:</p> <p>A full high definition processor should have resolution of 1920x1080 pixels or higher</p> <p>Should have real time optical enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions</p> <p>Should have USB slot to take still pictures of endoscopic images</p> <p>3) Kindly add Powerful 300 watt Xenon light source/LED light source</p> <p>equivalent (to Xenon 300 Watt) with 3 numbers of Autoclavable Light Guide Cable</p> <p>4) Kindly add Telescope 4mm ,0,30,70 Degree Telescope with HD imaging One each</p> <p>Remarks: Tender heading is for Video Video laryngoscope with Camera System where as Macintosh Blade is required for intubation purpose .Both are contradicting</p>	<p><i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 3 enclosed herewith</i></p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		Also system requires complete imaging chain like video processor .Light source and camera system	
One special blade for difficult intubation with device for introduction of suction catheter for size 16-18 Fr., angle of view should be approx 80 degree.	Kindly delete Macintosh blade & add following specification for Video laryngoscope Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability 1) Should have 4 way angulation UP /Down : 130 deg left right : 70 degree 2) Depth of Field : 2-50 3) Distal end diameter : 4.8mm or less 4) insertion tube diameter : 4.9 mm or less 5) field of view : 90 degree 6) Working channel : 2mm 7) Should have real time optical enhancement(Mucosal enhancement) Remarks: Therapeutic Video Pharyngo-Laryngoscope with early cancer detection capability		<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 3 enclosed herewith</i>
One miller size 0 & 1 blade should present in the set.	Kindly delete Blade		<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 3 enclosed herewith</i>
Screen 7inch or more in size for display with feature control buttons on the screen with composite output for connecting to a big screen.	It should be amendment as 26 Inch medical grade monitor of same make. LCD Screen with LED backlit Remarks: To see complete Full HD images minimum 24 inches or more monitor is required		<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 3 enclosed herewith</i>
Automatic/ manual white balance facility should be available Documentation of Video & still images should be possible on data card or USB drive with JPEG and MPEG4 format which can be easily transferred to the computer/laptop. Documented videos& still images	This should be part of camera head Recording Software with Computer system should be supplied 1) Should have HD medical grade recording software for reporting purpose 2) Computer should be i5 processor 3) Should be supplied with Compatible printer for report		<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 3 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	should be easily recalled on the monitor	printing	
	Magill forceps for foreign body removal and for assisting nasal intubation. Safety bag or box for screen to be provided	Kindly amend it as Should be supplied with compatible leakage tester ,biopsy & Grasping forceps -3 Numbers	<i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 3 enclosed herewith</i>
	IV Stand for positioning the monitor , with tray for laryngoscopes should be provided	Compatible trolley from same OEM should be provided to provide space to house all mentioned equipment's	<i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 3 enclosed herewith</i>
	Accessories like protection cap, tray for cleaning and sterilization of blades (at least two blades at a time) should be provided	Kindly delete as this is required for rigid laryngoscope with blades	<i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 3 enclosed herewith</i>
	Blades and connection cable should be fully immersible in disinfecting solution	Kindly delete	<i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 3 enclosed herewith</i>
	-NA-	<p>One Bidder vide their letter have requested to amend entire specification and have suggested detail technical specification (copy enclosed) as given below:</p> <p>Tender Technical Specification for Therapeutic Flexible Video Laryngoscope with NBI :-</p> <p>Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability:</p> <ul style="list-style-type: none"> - Compatible with electrosurgical and laser treatments. - Distal end & Insertion tube outer diameter should be 5 mm or less. - Field of view should be 85 degree or more. - Depth of field should be 2 mm or less. - Angulation range should be approx. Up 130 deg or more and Down 100 deg or more. - Working length should be around 300 – 400 mm. - Instrument Channel should be around 1.5 – 2.5 mm. - Early Cancer Detection capability (Mucosal enhancement). - Should be supplied with compatible Leakage Tester, Biopsy Forceps and Rat Tooth Grasping Forceps etc. <p>Full HD Video Image Processor :</p> <ul style="list-style-type: none"> - A full high definition processor should have resolution of 1920 * 1080 pixels or higher (4K). 	<i>As per bidder query and CNCI requirement, the specification has been amended/ revised by CNCI as per annexure 3 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

		<p>– Autoclavable type.</p> <p>Other Points :</p> <ul style="list-style-type: none"> – It should be US FDA certified. – All products should be from the same manufacturer. – Should have installation of same product base in reputed Govt. Institutes. – Should have a service facility in Kolkata. <p>Should provide 5 years warranty with AMC & CAMC rate for another 5 years after completion the warranty.</p>	
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Item no. 13: Micro Laryngoscopy including TLM (mlScopySet)

Sl. No	Tendered Technical Specification	Bidder's Queries	CNCI Decision for any Amendments, if any
	Video-Laryngoscope with integrated 45° angled eyepiece Forward Telescope 150 Adult size _____ 01	One Bidder vide their letter have requested to amend as “ Video-Laryngoscope with integrated 45 degree angled eyepiece Forward Telescope 15 degree Adult size ~ 01 ”	Should be read as “ Video-Laryngoscope with integrated 45 degree angled eyepiece Forward Telescope 15 degree Adult size ~ 01 ”
	Anterior commissure scope Adult size- 22cm _____ 02	One Bidder vide their letter have requested to amend as “ Anterior commissure scope Adult size- 17- 22cm~ 02 ”	Should be read as “ Anterior commissure scope Adult size- 17- 22cm~ 02 ”
	Laryngoscope holder and chest support Adult size (ring 9.5 cm, rod 34 cm) _____ 01	One Bidder vide their letter have requested to amend as “ Compatible laryngoscope holder and chest support Adult size (ring 9.5 cm, rod 34 cm) ~ 01 ”	Should be read as “ Compatible laryngoscope holder and chest support Adult size (ring 9.5 cm, rod 34 cm) ~ 01 ”
	Laryngoscope holder and chest support Child size (ring 9.5 cm. Rod 24 cm) _____ 01	One Bidder vide their letter have requested to amend as “ Compatible laryngoscope holder and chest support Child size (ring 9.5 cm, rod 24 cm) ~ 01 ”	Should be read as “ Compatible laryngoscope holder and chest support Child size (ring 9.5 cm, rod 24 cm) ~ 01 ”

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Item no. 14: OPERATING MICROSCOPE

Sl. No	Tendered Technical Specification	Bidder's Queries One Bidder vide their letter have requested to amend as	CNCI Decision for any Amendments, if any
1	High Intensity Illumination through fibre optic high output LED (Equivalent to Xenon 300W) light cable.	Should have 300W Xenon illumination through fibre optic light cable with the back up of 300 W xenon with easy lamp change over facility. Illumination should be controlled easily by hand switch and foot switch as per surgeon requirement.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
2	180-degree dual stereo attachment with beam splitting ratio 70%/30% (approx.)	180-degree dual stereo attachment by beam splitting option with 10x/12.5x eyepieces with Diopter correction – 8D to + 5 D.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
3 & 4	The attachment should provide convenient working condition for the entire surgical team and any type of surgery.	No change required or should be eliminated not making any sense.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
5	Binocular tube should have with a variable viewing angle tube of 30 to 150.	Should have variable motorized working distance from 200 mm (+/- 25 mm) to 500 mm (+/- 25 mm).	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
6	Binocular tilt 0- 180 degree	Inclinable binocular tilt 180 degree or more.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
7	Eyepieces 10x to 12.5x	Should have eyepieces 10x to 12.5x.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
8	Magnification changing: Continuous zooming (Electric/Manual): through fire handles with magnetic brakes.	Should have motorized magnification upto 14x or more. The motorized magnification should be activated through hand and foot switch or control panel. The handgrip should have buttons for adjustment of focus, zoom, illumination, XY movements and other components with electromagnetic brakes.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
9	Additional waterproof footswitch control optional	Foot switch with 12 functions or more should be supplied.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
10	Zoom video adaptor with zoom TV objective and continuously adjustable focal length of 35 mm to	An objective lens of continuously adjustable focal length from 200 mm (+/- 25 mm) to 500	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	100 mm for adaptation of full HD/4 K CCD/	mm (+/- 25 mm) for adaptation of full HD.	<i>as per annexure 4 enclosed herewith</i>
11	Beam splitter with beam splitting ratio 50% / 50% (approx.)	Should have beam splitter with suitable splitting ratio.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
12	Attachment for second observer with wide field eyepiece 10x and inclined low binocular.	Should have attachment for second observer with wide field eyepiece 10x and 160 degree or more inclined binocular.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
13	Tube with provision for IPD adjustment through adjuster.	No change required	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
14	Full HD/4K resolution camera head with control unit.	Should have an integrated HD camera OR 4K resolution camera head with control unit.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
15	Full HD/4K resolution LED medical grade monitor not less than 21 inch in size.	Should have integrated digital video image recording, editing and archiving system.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
16	Spare lamps: Halogen Lamp (2 no's)	Spare lamps: two spare 300W xenon lamps to be supplied along with conventional xenon lamp & back up (300W xenon)	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>
		An additional point for floor stand to be added: Compact microscope based on counterweight balancing system (Contrives Technology) and floor stand should have one touch automatic balancing mechanism.	<i>As per bidder query and CNCI requirement, the specification has been amended/revised by CNCI as per annexure 4 enclosed herewith</i>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

ANNEXURE-1

LAPAROSCOPIC INSTRUMENT SET WITH CAMERA SYSTEM AND INTEGRATED USB RECORDING FACILITY

1A. LAPROSCOPIC HAND INSTRUMENTS

Item with Specification.	Qty	
Trocar & Cannula 11MM : Cannula size : 11 mm diameter ; should have multifunctional valve and automatic valve to prevent damage of sharp instruments and quipme 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 canula should be 100-110 mm.	02	
Trocar & Cannula 6MM : Cannula size : 6mm diameter ; should have multifunctional valve and automatic valve to prevent damage of sharp instruments and quipme 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 canula should be 100-110 mm.	02	
Reducer 11-5mm	01	
Veress Needle: Veress needle of working length 10cm with luer lock one each	01	
Grasping Forcep Fenestrated curved: Atraumatic, fenestrated, curved grasping forcep with unipolar connection, insulated sheath, handle without ratchet. Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm	01	
Grasping Forcep Non Toothed Straight: Atraumatic, straight grasping forcep with unipolar connection, insulated sheath, handle without ratchet. Should be dismantable into three parts namely, outer tube, handle and inserts. Length between 35-36cm, size: 5.0mm	01	
Bowel Grasping Forcep: Bowel Grasper fenestrated, size: 5.0mm, length 5-36cm, handle with ratchet, insulated shaft.	01	
Unipolar curved Kelly dissecting and Grasping Forcep: Kelly curved dissecting and grasping forceps insulated, atraumatic, working length 36 cm, size: 5mm,dismountable into handle, insert and working tube. Handle without ratchet.	01	
Unipolar Tooth Grasping Gorcep:	01	

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019

IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Tiger Jaw 2x4 teeth insulated. Dismantable into different parts, insert, handle and working tube, Working length of 36 cm, size: 5mm. Handle with ratchet.		
Scissor curved Unipolar: METZENBAUM curved scissor 10mm, length of blade 12mm, connection for unipolar HF cable, dismantable into insert, tube and handle. Working length 36 cm, size: 10mm, handle without ratchet.	01	
L-shaped hook dissector (detachable & replaceable TIP) with unipolar HF connection.lap (with 6 pcs of spare tips)	01	
Claw Forcep: 10 mm claw forcep 2x3 teeth short with ratchet.	01	
Nathanson Liver Retractor (Small , Medium , Large) 1 each with a common holding system	01	
Clip Applicator: Medium Large clip applicator dismantable rotating size: 10mm, length 36cm, for Titanium clips with ratchet to lock the jaw holding the clip.	01	
Two Way Suction irrigation cannula, size: 5mm	01	
Puncture Needle, size: 5mm, length 36cm	01	
Unipolar HF Cable: Unipolar HF cable suitable to connect with forcep and electro-surgical unit.	01	
Fan retractor: Fan retractor with simple opening of the fan by axial movement of the outer sheath, dismantable and distendable, size: 10mm, length: 36cm	01	

All the instruments should be USFDA & European CE certified

All instruments should be from same manufacturer

All instruments should be fully autoclavable & reusable

The scopes should have a standard couplers compatible to all international camera systems

1B. High Definition Camera System, with integrated USB recording system

Telescope 30° 10MM : 01 pc

Forward oblique 30 degree enlarged view, size: 10 MM

rod lenses system, Length: 30- 33 cm, Autoclavable, Fiber optic light transmission incorporated.

Telescope 30° 5MM: 01 pc

Forward Oblique Telescope 30° enlarged view, size: 5.0mm

rod lenses system ,Length: 29-33 cm, Autoclavable, Fiber Optic Light Transmission Incorporated.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

S. No	Specification
1	<p>Three Chip High definition Camera System</p>
	<p>The system should be truly Digital UHD or HDTV endoscopic video camera. The system should have the maximum Resolution of 1920 X 1080 pixels or 3860 X 2160p progressive scan and the consistent use of 16: 9 formats for Input & Output to guarantee genuine HDTV.</p> <ul style="list-style-type: none"> • The system should have facility of Optical & Digital Zoom lens to enhance the quality of Image size & cross specialty usage of the camera system, regardless of the telescope used. • USB Port for Capturing FULL HD Videos/ HD Stills in External USB drive and direct interface of USB Printer to facilitate direct printouts or External recorder from same manufacturer should be provided. • System should have facility of controlling additional equipments like light source/ insufflators and recording device from the camera head. • The system should be provided with chromo endoscopy facility to see sub mucosal pattern. • All equipments quoted should be from the same manufacturer to ensure best system compatibility • All equipments quoted should be USFDA &European CE approved <p>Technical Specifications: Image sensor: 3X1/3” CCD-Chip/CMOS. Pixels 1920 x 1080 or 3840X2160p AGC: Microprocessor controlled Lens: Integrated Zoom Lens f = 15-31 mm (2x optical zoom) Minimum light sensitivity: 1.17 Lux (f = 1.4 mm). Control buttons: 3 (2 of them freely programmable). Video output: For Communication with compatible camera module, LAN Connection, 4xUSB connection (2x front, 2x back) Input: Keyboard/Touchscreen input for character generator. Power Supply 100-240 VAC 50/60 Hz Certified to : IEC 601-1, 601-2-18, CSA 22.2 No. 601,UL 2601 CE according to MDD, proception class 1/CF</p>

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	<p>High Definition Medical Grade Monitor</p>
	<p>The monitor should have:</p> <p>HDTV display in original 16: 9 HDTV format. 1080 p/ 50 & 1080 p/60 displays possible. LED crystal display. Max. Resolution of 1920X1080. Screen diagonal – 26”. Desk top with pedestal. Should have the facility of PIP mode.</p> <p>Specifications</p> <p>HD TFT Flat Screen Monitor with stand size 26", Aspect Ratio 16:9 HD format Brightness : 500 cd/m2 Maximum viewing angle : 178° vertical Contrast ratio: 1400 : 1 Reaction Time – 8ms Rated power : 115 watts Power Supply 100-240 VAC Screen Dimensions : 643 x 396 x 87mm</p> <p>Video Inputs: 2* DVI-D , 2* 3G SDI, 1* S Video , Composite 1* RGB/VGA , 1* RS 232 , 1* RJ 45 Interface.</p> <p>Output: 1* DVI , 1* 3G SDI, 1* S-Video Accessories External 24VDC Power Supply, Mains Cord, Pedestal. Certified to : EN 60601-1, protection class IPX 1</p>
	<p>LED Light Source with Fiber optic cable</p>
	<p>Lamp type:- LED 175 Watt or more</p> <ul style="list-style-type: none"> • Color Temperatures 5500K and above • Light Outlets – 1 • Light Intensity Adjustment :- Continuously adjustable either manually or automatically by cameras video output signal. • Should be supplied with Diameter 3.5mm, Length 300cm. • Certified To :- IEC 601-1 & UL 544 CE According to MDD , protection class 1/CF

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

	Fibre Optic Light Cable. Thickness 4.8mm Length 300 cm. 03 nos.
	CO2 Electronic Insufflator 30 L / M and Above Flow Rate :01 no. Electronic CO2 Insufflators with pin index connection. Should have an adjustable flow rate of 0 to 30 ltr. per minute or above and a pressure range adjustable between 0-30 mm Hg. Preset and actual value for Pressure and flow should be displayed together on the front panel in digital display. Constant monitoring of intra-abdominal pressure; any overpressure is released immediately with back flow with acoustic alarm.
	Compatible trolley to be provided (Indigenous).

All the instruments should be USFDA & European CE certified
 All instruments should be from same manufacturer
 All instruments should be fully autoclaveable & reusable
 The scopes should have a standard couplers compatible to all international camera systems

ANNEXURE-2

SPECIFICATION FOR FESS SET WITH MICRODEBRIDER

9A) FESS OPTICS :

1) Specifications For Endoscopes for FESS

(i) Telescope 0° 4.0 mm & 2.7 mm: **02 each**

Straight forward telescope, 0 degree enlarged view, size: 4 & 2.7 mm
 Rod lenses system, Length: 18-19 cms, Autoclavable,
 Fiber optic light transmission incorporated.

(ii) Telescope 30° 4.0 mm & 2.7 mm **02 each**

Forward oblique 30 degree enlarged view, size: 4 & 2.7 mm
 Rod lenses system, Length: 18- 19 cms, Autoclavable,
 Fiber optic light transmission incorporated.

(iii) Telescope 45° 4.0 mm: **02 each**

Straight Forward Telescope 45 degree enlarged view, size: 4 mm

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

Rod lenses system, Length:18-19 cms, Autoclavable,
 Fiber Optic Light Transmission Incorporated

(iv) Telescope 70° 4.0 mm: 02 each

Straight Forward Telescope 70 degree enlarged view, size: 4 mm
 Rod lenses system, Length:18-19 cms, Autoclavable,
 Fiber Optic Light Transmission Incorporated

(v) Telescope 15° 4.0 mm 02 each

Straight Forward telescope 15 degree diameter 4mm and length 17 cms,
 should be autoclavable and should have 45 degree angled eyepiece.
 Fiber optic light transmission incorporated.

(vi) Telescope handles for 4 mm telescope round as well as flat (for each scopes) 01 Each

Other points:

- Should be supplied with suitable autoclavable container
- It should be US FDA/ European CE certified.
- Products should be from same manufacturer
- Supplier Company will have to give training to doctors and staff of Operation theatre, regarding the handling and maintenance of the instrument.
- Origin Company should have Service facility in Kolkata
- Local dealer
- Spare parts should be easily available
- Good after sales back up

Installation List

9B) FESS Instrument :

2) Specifications For Forceps for FESS

Sickle Knife, Sharp tip, 190 mm	- 01	
Sickle Knife Blunt Tip, 190 mm	- 01	
Turbineotomy Scissors, Straight, Serrated Blades	- 01	
Blakesley nasal Forceps, Straight, 110 mm Length, 3.6 mm Size 0	- 01	
Blakesley nasal Forceps, Straight, 110 mm Length, 4.8 mm Size 1		- 01
Blakesley nasal Forceps, Straight, 110 mm Length, 5.6 mm Size 2	- 01	
Blakesley nasal Forceps, Upturned, 45 degree, 110 Length, 3.6 mm Size 0	- 01	
Blakesley nasal Forceps, Upturned, 45 degree, 110 Length, 4.2 mm Size 1	- 01	
Nasal Dressing forceps, Tilley's, Straight Serrated	- 01	

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019

IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

OstrumAntrum punch forceps, upside backward cutting, Straight, Length 9 CM	- 01
StambergerAntrum Punch, Straight, Upward Cutting, 1 mm	- 01
Kerrison's Bone Punch, Straight, Upward cutting, 1 mm	- 01
Kerrison's Bone Punch, Straight, Upward cutting, 2 mm	- 01
Kerrison's Bone Punch, Straight, Downward cutting, 1 mm	- 01
Antrum curette, forward cutting, 19 cm	- 01
Stamberger Mushroom forceps Straight	- 01
Giraffe Forceps, Upwards curved, cup size diameter 3mm, double action	- 01
Antrum Grasping Forceps, Jaws opening backwards, curved downwards	- 01
Antrum Grasping Forceps, Jaws opening backwards, curved upwards	- 01
Myle's Forceps, through cutting, Straight	- 01
Irrigation cannula, Slightly Curved, 145 mm	- 01
Irrigation cannula, Short Curved, 145 mm	- 01
Antrum Ball probe, slightly curved, double ended	- 01
AntrumMonopolar suction tube, standard curved	- 01
Trocar for Sinuscopy, with beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with telescope with diameter 4 mm	- 01
Ultra Stop Antifog solution 25 ml, Pipette bottle	- 04
Disinfection storage system (soak basin, perforated storage tray and lid)	- 02

3) Specifications For Bipolar Coagulation Forceps

Bipolar coagulation Forceps insulating angular, Blunt for nose, withIntegrated suction channel for with cut-off hole, Length 18 - 20 cm for use with Bipolar high frequency cord	-02
FreersMuco-Perichondrium Elevator with suction	-01
Antrum Curette Forward cutting, 19 cm	-01
Antrum Ball probe	-01
Bipolar High Frequency cord, Length 300 mm	-01
Bipolar suction forceps 45 degree Upturned with suction channel for bipolar Coagulation area working length 12.5 cm for use with bipolar high frequency	-01
Bipolar High Frequency Cord, with two 2 mm cable sockets for bipolar	-01
Coagulation forceps and standard pin for connection to all current bipolar cables length 40 cm	-01
Frontal Sinus Currette, 55 degree Curved, Oval, Forward cutting, length 19 cm	-01

Other points:

- It should be US FDA /European CE certified.
- Should be supplied with suitable autoclavable container
- Products should be from same manufacturer

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019

IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

- Reprocessing basket for camera head - 01 no
- Key board with USB and mouse pad - 01 no
- Telescope protection sheath (as per specified number).
- Supplier Company will have to give training to doctors and staff of Operation theatre, regarding the handling and maintenance of the instrument.
- Origin Company should have Service facility in Kolkata
- Local dealer
- Spare parts should be easily available
- Good after sales back up
- Installation List

9C) Micro-Debrider :

(a) Table Top Console

1. Motor Power Supply : Quick connectors of the push-pull type
2. Peristaltic Pump : Adjustable in step and easy to prime
3. Blade ID : Auto recognition of blades and burrs with defaults to recommended settings
4. Console should have provision to connect High Speed Otological Micro Motor . It should have touch screen panel for easy operation.

(b) Multi-Function Foot Pedal

1. Watertight, with 1- 3 metre cable
2. Speed control via foot pedal.
3. Single action to fully open or close the blade window

(c) Debrider Hand Piece

1. Type : Brushless & complete disposable suction pathway
2. Straight Suction thru the hand piece
3. Speed in Continuous rotation : 500 to 12,000 rpm
4. Speed in Oscillation mode : 500 to 5,000 rpm
5. Speed for Otology Drill Motor : 500 to 60,000 rpm
6. Motor Cable : Push–Pull type at Console end
7. Instruments : Disposable Straight & angled shaver blades for Adenoids, Frontal sinus, maxillary sinus and Sinus burrs.
8. Sterilization : Autoclave motor and cable.

Consumables -

(a) For Debrider

1. A Set of Straight Blades for Debrider- 4 mm. 3.5mm 5pc each
2. A Set of Angled Blades for Debrider- 4 mm – 12⁰, 40⁰, 65⁰ 5pc each
3. A Set of Sharp Edge Blades for Debrider- 4 mm 5pc each
4. A Set of Straight Blades for Debrider- 4 mm Convex 5pc each

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019

IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

5. A Set of Burrs for Debrider- 3mm,4mm diameter 5pc each
6. Tube sets with option of Declog 5pc each

(b) For Otology Drill

1. Straight attachment – Exposed tube of 70mm-75mm, length 115-120mm Qty-2
2. Angled Attachment – Exposed tube of 70mm-75mm, length 138 – 140mm Qty-2
3. Straight Hand piece – Exposed tube of 50-55mm, length 85mm – 90mm Qty-2

(c) Cutting Accessories :

1. Extra Coarse Diamond (Polishing) Bur 2mm– 5 Nos each for medium and long handpiece
2. Extra Coarse Diamond (Polishing) Bur 3mm – 5 Nos each for medium and long handpiece
3. Extra Coarse Diamond (Polishing) Bur 4mm – 5 Nos each for medium and long handpiece
4. Extra Coarse Diamond (Polishing) Bur 5mm – 5 Nos each for medium and long handpiece
5. Fluted (Cutting) Bur Aggressive 2mm – 5 Nos each for medium and long handpiece
6. Fluted (Cutting) Bur Aggressive 3mm – 5 Nos each for medium and long handpiece
7. Fluted (Cutting) Bur Aggressive 4mm – 5 Nos each for medium and long handpiece
8. Fluted (Cutting) Bur Aggressive 6mm – 5 Nos each for medium and long handpiece
9. Fluted (Cutting) Bur Aggressive 1mm – 5 Nos each for medium and long handpiece

Other points:

- It should be US FDA/ European CE certified.
 - Should be supplied with suitable autoclavable container
 - Products should be from same manufacturer
 - Supplier Company will have to give training to doctors and staff of Operation theatre, regarding the handling and maintenance of the instrument.
 - Origin Company should have Service facility in Kolkata
 - Local dealer
 - Spare parts should be easily available
 - Good after sales back up
 - Installation List
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CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

ANNEXURE-3

TECHNICAL SPECIFICATION THERAPEUTIC FLEXIBLE VIDEO LARYNGOSCOPE WITH EARLY CANCER DETECTION CAPABILITY

- 1) Therapeutic Flexible Video Pharyngo-Laryngoscope with early cancer detection capability :**
 - Compatible with electrosurgical and laser treatments
 - Distal end diameter 4.8 mm or less & Insertion tube outer diameter should be 4.9 mm or less
 - Field of view should be 90 degree or more
 - Depth of field should be 2 -50 mm
 - 4 way Angulation range should be approx. Up & Down 130 deg, Left & right 70 Deg
 - Working length should be around 300 – 400 mm
 - Instrument Channel should be around 1.5 – 2.5 mm
 - Early Cancer Detection capability (Mucosal enhancement)
 - Should be supplied with compatible Leakage Tester, Biopsy Forceps and Rat Tooth Grasping Forceps etc.
 - Should be compatible with Electrocautery & laser treatment.
 - Should have real time optical enhancement (Mucosal Enhancement)
 - Should be supplied with compatible leakage tester, biopsy & grasping forceps.- 3 nos.
- 2) Full HD Video Image processor :**
 - A full high definition processor should have resolution of 1920 * 1080 pixels or higher (4K)
 - Should have compatibility for selecting Progressive / Interlaced output
 - Real time optical image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions.
 - Should have a USB slot so as to take still pictures of Endoscope images.
- 3) 3 Chip Full HD / 4K Autoclavable Camera head :**
 - The full HD camera head should have resolution of 1920 * 1080 pixels or higher (4K).
 - Should have motorized optical zoom ranging from 0.9X to 1.8X and can be varied seamlessly.
 - Should have motorized focus function.
 - Should have programmable buttons which can be configured through the processor.
 - The camera head must be autoclavable.
- 4) Powerful 300 watt Xenon Light source/ LED Light source equivalent to Xenon 300W**
 - A Powerful 300 Watt Xenon Lamp with emergency lamp facility or LED Light source
 - Automatically adjusts light intensity to achieve ideal illumination
 - 3 nos. Autoclavable type Optic fiber light guide cable to be provided for better protection against mechanical and thermal stress

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

- Length of cable should be around 3 -4 meter
 - The light guide cable should be autoclavable.
- 5) Full HD Medical Grade Monitor:**
- Should have minimum 26 inches size (Large Screen)
 - Medical grade high monitor with resolution of minimum 1920 * 1080 or higher (4K)
 - LCD Screen with LED Backlit preferable
- 6) Telescope:**
- 4mm, 0°, 30°, 70° Telescope with HD imaging (One each)
 - 146-180 mm working Length
 - Autoclavable
- 6) High Definition Recording System:** (Should have following specifications)
- Desktop(i5 processor based medical grade video/Image HD quality recording system software with option of patient data entry
 - HD Quality display for review.
 - Should be supplied with compatible printer for report printing.
 - Should be supplied with 4 TB internal storage capacity and provision for easy retrieval of data in other e-storage such as Hard disc/USB.
- 7) Endoscopy Trolley / Video cart**
- Should be from same manufacturer.

Other points:

- The device should be USFDA/European CE certified
- All products should be same manufacturer EXCEPT High Definition Recording System:
- Should have installation of same product base in reputed Govt Institutes
- Should have a service facility in Kolkata
- Should provide 5 years warranty with AMC & CAMC rate for another 5 years after completion the warranty.

CNCI Decision on Pre Bid Query Held at CNCI Kolkata on 16.05.2019
IFB No. HSCC/PUR/CNCI/Kolkata/Medical Equipment/07/A dt. 10.05.2019

ANNEXURE-4

OPERATING MICROSCOPE [ENT-01 nos., Surgical Oncology 1 nos.]:

1. Compact microscope based on counterweight balancing system
2. High Intensity 300 watt Xenon Illumination through fibre optic Light Cable.
Xenon illumination with integrated 300 watt Xenon back-up with easy lamp change over facility. Illumination can be controlled easily by hand switch and footswitch as per surgeon requirement.
3. 180 degree dual stereo attachment with beam splitting ratio 70% / 30 %. Or 50%/50%(approx.) with 10x/12.5X eyepieces with Diopter correction +5D to -8 D
4. Should have variable motorized working distance from 200mm (+/-25mm) to 500 mm (+/- 25mm).
5. Binocular: Tilt 0 ° -180 °
6. Should have one touch automatic balancing mechanism.
7. Magnification changing with 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
8. Waterproof Foot Switch control with 12 or more function footswitch.
9. Zoom video adapter with zoom TV objective and continuously adjustable focal length of 200 mm to 500 mm for adaptation of Full HD.
10. Attachment for second observer with wide-field eyepiece 10X and inclined low Binocular
11. Tube with provision for IPD adjustment through adjuster.
12. Fully Integrated HD/ Full HD grade Camera head with control unit
13. HD/ Full HD Medical grade Monitor 21 inch or more.
14. Should have integrated digital video image recording and archiving system with storage capacity of 1 TB.
15. Spare Lamps: Two Spare Xenon Lamps to be supplied along with conventional Xenon lamp & back up (300Watts)

Special features in Surgical oncology microscope Qty. 01 nos. :

1. Should have the inbuilt hardware and software for tumor fluorescence & also possibility for vascular anastomosis verification and vascular clipping verification.

General Requirements:

- The device should be USFDA approved and European CE certified
 - All products should be same manufacturer
 - Should have installation of same product base in reputed Govt Institutes
 - Should have a service facility in Kolkata
 - Should provide 5 years warranty with AMC & CMC rate for another 5 years after completion the warranty.
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