

Amendment No. 2**28.05.2018****Sub: Amendment to the Bidding Document****Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/14/18-19 dated 13.04.2018 read with its Amendment no. 01 dated 11.05.18**

The following changes have been authorised and are being incorporated in the above referred Bidding Document.

SECTION - I**NOTICE INVITING BIDS (NIB)****Existing:**

Sl. No.	Rfx no.	Short Description of goods	Quantity	Bid Security (BS) (Rs.)	Tender Processing Fee incl. GST (Rs.)
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	2	2,80,000	3,540
Last date and time of online submission of tender				29.05.2018 at 12:00 noon	
Last date and time of physical submission of EMD, Tender processing Fee, any other document specified in the Bidding Document				29.05.2018 at 2:00 pm	
Date of tender Opening				29.05.2018 at 2:30 pm	

Amended as:

Sl. No.	Rfx no.	Short Description of goods	Quantity	Bid Security (BS) (Rs.)	Tender Processing Fee incl. GST (Rs.)
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	1	1,40,000	3,540
Last date and time of online submission of tender				19.06.2018 at 12:00 noon	
Last date and time of physical submission of EMD, Tender processing Fee, any other document specified in the Bidding Document				19.06.2018 at 2:00 pm	
Date of tender Opening				19.06.2018 at 2:30 pm	

SECTION- VI**LIST OF REQUIREMENTS****Part I:****Existing:**

Sl. no.	Rfx/ Event number	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	2	5 years	5 Years

Amended as:

Sl. no.	Rfx/ Event number	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	1	5 years	5 Years

SECTION - VII**TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION:**

Item No. 1 (Rfx/Event number 3000002776)

Electro Surgical Diathermy Unit with Standard Accessories

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 47 Point no. 1	Unit should have patient plate Contact Quality Monitoring System/REM System- the contact between Plate & Patient reduces it stops the HF delivery & gives error message with audio visual indications.	Unit should have patient plate Contact Quality Monitoring System/REM System/ Nessy Neutral Electrode Safety System - the contact between Plate & Patient reduces it stops the HF delivery & gives error message with audio visual indications.
2	Page no. 47 Point no. 3	Real time tissue impedance monitoring technology to deliver the selected power perfectly into a	Real time tissue impedance monitoring technology/ Tissue Feedback Power Peak

		wide range of tissue types reducing thermal spread, RF interference and Neuro muscular stimulation and sparks.	technology to deliver the selected power perfectly into a wide range of tissue types reducing thermal spread, RF interference and Neuro muscular stimulation and sparks.
3	Page no. 47 Point no. 4	The system should have facility to use two monopolar modes simultaneously	The system should have facility to use two monopolar modes simultaneously/ intermittently .
4	Page no. 47 Point no. 7	There should be sufficient Coag modes to be present for all applications (Preferably 4 coag modes)	There should be sufficient Coag modes to be present for all applications (Preferably 3 to 4 coag modes)
5	Page no. 47	Mono-polar Cut: Pure Cut: 300- 400 W Low Cut: 300-400 W Blend: 200 -250 W	Mono-polar Cut: Pure Cut/ Auto Cut : 300-400 W Low Cut: 150 -400 W Blend/ Dry Cut : 200 -250 W
6	Page no. 47	Mono-Polar Coagulation: Fulgurate: 120 – 130 W	Mono-Polar Coagulation: Fulgurate/ Forced : 120 – 130 W
7	Page no. 47	Bipolar Coagulation: Cut/Precise: 70-120 W Force/Standard: 70-100 Micro/Macro: 70-100 W	Bipolar : Bipolar cut: Cut/Precise: 70-120 W Bipolar Coagulation: soft /Force/Standard: 70-100 W Bipolar coagulation: Soft /Micro/Macro: 70-100 W
8	Page no. 48	<u>Minimum High Frequency Leakage</u> Bipolar Less than 60 mA	<u>Minimum High Frequency Leakage</u> Bipolar Less than 63 mA
9	Page no. 48 Point no. 1, 3, 4, 5 & 7	<u>Standard Accessories to be provided:</u> 1. Disposable dual pad Polyadhesive Plate with cable (Adult & Paediatric)- 10 No. each 3. Mono polar-hand switch pencil- 10 No 4. Dual pedal foot switch for Mono-Polar- 1 no. 5. Single pedal foots switch for bipolar- 1 no. 7. Monopolar electrodes: blades, needle tips, ball tips -10 each	<u>Standard Accessories to be provided:</u> 1. Disposable dual pad Polyadhesive Plate with cable - 400 nos. for Adult & 100 nos. for pediatric 3. Disposable Mono polar-hand switch pencil- 100 nos. 4. Combined or separate Foot pedal for monopolar, bipolar - 1 set 5. Deleted 7. Set of monopolar electrodes: Blade, needle, ball tip 1 each - 10 sets
10	Page no. 48	• Type CF Equipment (IEC 601 –1 & IEC 601-2-2) Defibrillator Proof US FDA and European CE certified with 4 digit notified body number.	• Type CF Equipment (IEC 601 –1 & IEC 601-2-2) Defibrillator Proof. The quoted model should be US FDA OR European CE certified with 4 digit notified body number.

11	Page no. 48	<ul style="list-style-type: none"> The bidder should quote prices of all the accessories and consumables separately and prices should be fixed for 5 years 	<ul style="list-style-type: none"> Bidder should quote prices of all consumable items for 10 years in prescribed price bid format
12			<p>Added Para: Note: Quantity given in the BOQ for consumables, is for 10 years period for calculation of L1 ranking. (1st year consumables quantity is already included in equipment BOQ & separate BOQ given for quoting consumables price from 2nd to 10th year) However order shall be placed only for one year and subsequent year order may be placed as and when required basis.</p>
BOQ for Standard accessories (Page-48)			
13	BOQ Sl.no.2	Disposable dual pad Polyadhesive Plate with cable (Adult & Paediatric)-10 nos. each	BOQ Sl. no. 2: Disposable dual pad Polyadhesive Plate with cable for Adult- 400 nos. per year
14	BOQ		<p>Added Para: BOQ Sl.no. 2a: Disposable dual pad Polyadhesive Plate with cable for pediatric – 100 nos. per year</p>
15	BOQ Sl.no.3	Bipolar forceps with cable -2 nos.	BOQ Sl.no.3: Reusable Bipolar forceps with cable - Straight - 3 nos.
16	BOQ	Added Para	<p>Added Para BOQ: BOQ Sl.no.3a: Reusable Bipolar forceps with cable - Bayonet- 3 nos.</p>
17	BOQ Sl.no.4	Mono polar-hand switch pencil - 10 nos.	BOQ Sl.no.4: Disposable Mono polar-hand switch pencil -100 nos per year
18	BOQ Sl.no.5	Dual pedal foot switch for Mono-Polar - 1 no.	BOQ Sl.no.5: Combined or seperate Foot pedal for monopolar, bipolar - 1 set
	BOQ Sl.no.6	Single pedal foots switch for bipolar - no.	Deleted
19	BOQ Sl.no.8	Monopolar electrodes: blades, needle tips, ball tips -10 nos. each	Set of Molopolar electrodes: Blade, needle, ball tip 1 each - 10 sets

ADDED BOQ for Consumables:

Price of consumables in INR till consignee site (plus applicable current rate of GST) to be quoted in price bid:

S. No.	Name of the Item	Quantity per Year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
1	Disposable dual pad Polyadhesive Plate with cable for Adult	400 nos.									
2	Disposable dual pad Polyadhesive Plate with cable for pediatric	100 nos.									
3	Disposable Mono polar-hand switch pencil	100 nos.									
4	Set of Molopolar electrodes: Blade, needle, ball tip, 1 each	10 sets									

Item No. 2 (Rfx/Event number 3000002777)

Advanced Electro Surgical Unit with Vessel Sealing

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 49 Point no. 3	The system should make minimum 400000 measurements/feedbacks per second for better tissue effect and should measure tissue impedance through power peak system, on real time basis.	Real time tissue impedance monitoring technology/ Tissue Feedback Power Peak technology to deliver the selected power perfectly into a wide range of tissue types reducing thermal spread, RF interference and Neuro muscular stimulation and sparks.
2	Page no. 49 Point no. 5	The Monopolar output must have pure Cut, Blend, Soft Coag, Fulgurate and Spray mode.	The Monopolar output must have pure Cut/ Auto cut , Blend/ Dry Cut , Soft Coag, Fulgurate/ Forced and Spray mode.
3	Page no. 49 Point no. 6	The Bi-Polar must have Low, Standard and Macro mode with Auto Bi-Polar control.	The Bi-Polar must have Low/ bipolar precise , Standard/ bipolar soft and Macro/ bipolar forced mode with Auto Bi-Polar control.

4	Page no. 49 Point no. 8	System should have remode or triverse function that allows user to change power from sterile field.	DELETED
5	Page no. 49 Point no. 11c.	Seal cycle incomplete alert	Seal cycle complete/ incomplete alert
6	Page no. 49 Point no. 12	The vessel sealing system should support open and laparoscopic (shaft dia of both 5mm and 10mm) hand instruments	The vessel sealing system should support open and laparoscopic (shaft dia of 5mm) hand instruments
7	Page no. 49 Point no. 14	The system should have demo mode facility and recall facility to recall the last setting used by user.	The system should have demo mode/ self check facility and recall facility to recall the last setting used by user.
8	Page no. 49 Point no. 16	System should be compatible of REM polyadhesive contact quality monitoring for patient safety with audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.	System should be compatible of REM/ NESSY polyadhesive contact quality monitoring for patient safety with audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
9	Page no. 49 Point no. 20	System should be US FDA and European CE certified with 4 digit notified body number.	System should be US FDA OR European CE certified with 4 digit notified body number approved
10	Page no. 49 Point no. 23a.	Monopolar, bipolar, vessel sealing Footswitches – 1 each	Combined or seperate foot switch for monopolar, bipolar & vessel sealing application - 1 set
11	Page no. 49 Point no. 23b	Disposable power controlled Hand switching pencils with cable – 10 nos.	Disposable power controlled Hand switching pencils with cable – 100 nos.
12	Page no. 50 Point no. 23d	Disposable curved/maryland Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms - 6pcs	Disposable curved/ maryland/ Straight Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms - 20 nos.
13	Page no. 50 Point no. 23e	Disposable curved/maryland vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm - 6pcs	Disposable curved/maryland/ staright Jaw vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm with shaft dia of 5mm - 20 nos.
14	Page no. 50 Point no. 23f	Disposable scissor type vessel sealing instrument curved shape within built cutting blade – 6pcs	DELETED
15	Page no.50	<ul style="list-style-type: none"> The bidder should quote prices of all the accessories and consumables separately and prices should be fixed for 5 years 	<ul style="list-style-type: none"> Bidder should quote prices of all consumable items for 10 years in prescribed price bid format
16		Added Para:	Note: Quantity given in the BOQ for consumables, is for 10 years period for calculation of L1 ranking. (1st year consumables quantity is already included in

			equipment BOQ & separate BOQ given for quoting consumables price from 2nd to 10th year) However order shall be placed only for one year and subsequent year order may be placed as and when required basis.
BOQ for Standard Accessories			
17	BOQ Sl.no.2	Monopolar, bipolar, vessel sealing Footswitches -1 each	Combined or seperate foot switch for monopolar, bipolar & vessel sealing application - 1 set
18	BOQ Sl.no.3	Disposable power controlled Hand switching pencils with cable - 10 nos.	Disposable power controlled Hand switching pencils with cable - 100 nos.
19	BOQ sl.no.5	Disposable curved/maryland Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms - 6 nos.	Disposable curved/ maryland/ Straight Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms - 20 nos.
20	BOQ sl.no.6	Disposable curved/maryland vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm - 6 nos.	Disposable curved/maryland/ staright Jaw vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm with shaft dia of 5mm - 20 nos.
21	BOQ Sl.no.7	Disposable scissor type vessel sealing instrument curved shape within built cutting blade - 6 nos.	Deleted
22		Added Para: BOQ	BOQ Sl.no.8: Disposable dual pad Polyadhesive Plate with cable for Adult- 400nos.
23		Added Para: BOQ	BOQ Sl.no.9: Disposable dual pad Polyadhesive Plate with cable for pediatric - 100nos.
24		Added Para: BOQ	BOQ Sl.no.10: Bipolar forceps with cable - Straight - 3 nos.
25		Added Para: BOQ	BOQ Sl.no.11: Bipolar forceps with cable - Bayonet- 3 nos.
26		Added Para: BOQ	BOQ Sl.no.12: Set of Molopolar electrodes: Blade, needle, ball tip, 1 each - 10 sets

ADDED BOQ for Consumables:

Price of consumables in INR till consignee site (plus applicable current rate of GST) to be quoted in price bid:

S. No.	Name of the Item	Quantity per Year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
1	Disposable dual pad Polyadhesive Plate with cable for Adult	400 nos.									
2	Disposable dual pad Polyadhesive Plate with cable for pediatric	100 nos.									
3	Disposable Mono polar-hand switch pencil	100 nos.									
4	Disposable curved/ maryland/ Straight Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms	20 nos.									
5	Disposable curved/ maryland/ straight Jaw vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm with shaft dia of 5mm	20 nos.									
6	Set of Molopolar electrodes: Blade, needle, ball tip, 1 each	10 sets									

Item No. 3 (Rfx/Event number 300002778)**Combined Ultrasonic Cutting & Coagulation device with Advanced Radio-Frequency energy**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 51 Para A.1	System should be a single generator with footswitch that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing.	System should be a single/ dual generator with single/ dual footswitch that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing.
2	Page no. 51 Para A. 6	Should be able to power ultrasonic energy instruments with 55.5 KHZ frequency.	Should be able to power ultrasonic energy instruments with 45 KHZ or above frequency.
3	Page no. 51 Para A. 8	Should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a quasi-sinusoidal forced impedance output	Should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a sinusoidal forced impedance output
4	Page no. 51 Para A.10	Should be compatible with articulating RF energy instruments with articulation of 55 degree either side and total of 110 degree of articulation with 360 shaft rotation and can simultaneously seal and transect vessels up to 7 mm, large tissue pedicles and vascular bundles with system feedback.	Generator:- Should be compatible with instruments with 360 deg shaft rotation and can simultaneously seal and transect vessel upto 7mm, large tissue pedicles and vascular bundles with system feedback
5	Page no. 51 Para A.11	Should provide temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius and hand instruments that provide tissue/vessel seal strength to withstand bursting pressure of at least 7 times the systolic pressure.	Should provide temperature controlled energy delivery which should maintain tissue temperature not more than 100 degree Celsius and hand instruments that provide tissue/vessel seal strength to withstand bursting pressure of at least 3 times the systolic pressure.
6	Page no. 51 Para A.12	Should be compatible with ultrasonic energy instruments which can simultaneously seal and transect vessels up to 7mm, large tissue pedicles and	Should be compatible with ultrasonic energy & RF energy instruments which can simultaneously seal and transect vessels up to 7mm (using

		vascular bundles with ultrasonic energy only with system feedback	ultrasoinc/RF energy), large tissue pedicles and vascular bundles with ultrasonic energy only with system feedback
7	Page no. 51 Para A. 13	All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues and also works separately Curved Blade and Dissecting Hook having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.	Para Deleted
8	Page no. 51 Para A. 14	Should have the ability for software updates via USB memory stick.	Should have the ability for software updates via USB memory stick/ HDMI/Link
9	Page no. 51 Para A.15	Should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601-1- 2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8 & System should be European CE approved with 4 digit notified body number and US FDA approved.	Quoted System should be European CE approved with 4 digit notified body number OR US FDA approved.
10	Page no. 51 Para A. 18	Well-equipped Service Center, should be ISO certified	"Well-equipped service centre should be present in India with trained OEM Engineers/Technicians "
11	Page no. 52 Para C. 2	Adapters for ultrasonic and radiofrequency instruments – 2 Nos	Adapters for ultrasonic and radiofrequency instruments – 2 Nos (if required)
12	Page no. 52 Para C. 3	Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries – 2 Nos each.	Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries – 3 Nos each.
13	Page no. 52 Para C. 4	RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip with active articulation of 55 degree each side using articulation wheel and 360 degree knob rotation – 5 Nos each	RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip, 360 deg knob rotation – 15 Nos each
14	Page no. 52 Para C.5	Ultrasonic 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved	Ultrasonic/ Integrated probes 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal

		thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using three hand-activation buttons – Max, Min & Advanced Hemostasis, proprietary non-stick coated active blade to reduce tissue sticking, 36 cm shaft length with ergonomic handle – 5 Nos each	management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm (using ultrasonic/RF energy) , 36 cm shaft length with ergonomic handle – 15 Nos each
15	Page no. 52	<ul style="list-style-type: none"> The firm should quote prices of all the accessories and consumable separately and prices should be fixed for 5 years 	<ul style="list-style-type: none"> Bidder should quote prices of all consumable items for 10 years in prescribed price bid format
16		Added Para:	Note: Quantity given in the BOQ for consumables, is for 10 years period for calculation of L1 ranking. (1st year consumables quantity is already included in equipment BOQ & separate BOQ given for quoting consumables price from 2nd to 10th year) However order shall be placed only for one year and subsequent year order may be placed as and when required basis.
17	Page 52 BOQ Sl.no.3	Adapters for ultrasonic and radiofrequency instruments - 2 nos.	Adapters for ultrasonic and radiofrequency instruments – 2 Nos (if required)
18	Page 52 BOQ sl.no.4	Reusable Monopolar cable and bipolar cables for connecting to Lap instruments	DELETED
19	Page 52 BOQ sl.no.5	Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries - 2 nos. each	Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries -3 nos. each
20	Page 52 BOQ sl.no.6	RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip with active articulation of 55 degree each side using articulation wheel and 360 degree knob rotation - 5 nos. each	RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip - 15 nos. each

21	Page 52 BOQ sl.no.7	Ultrasonic 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using three hand-activation buttons – Max, Min & Advanced Hemostasis, proprietary non-stick coated active blade to reduce tissue sticking, 36 cm shaft length with ergonomic handle - 5 nos. each	Ultrasonic/Integrated probes 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm (using ultrasonic/RF energy), 36 cm shaft length with ergonomic handle – 15 Nos each
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ADDED BOQ for Consumables:

Price of consumables in INR till consignee site (plus applicable current rate of GST) to be quoted in price bid:

S. No.	Name of the Item	Quantity per Year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
1	Hand piece/ Transducer compatible with various hand instruments used in open surgeries	3 nos.									
2	Hand piece/ Transducer compatible with various hand instruments used in laparoscopic surgeries	3 nos.									
3	RF energy 5mm Lap Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip	15 nos.									
4	RF energy 5mm open Hand Activated	15 nos.									

	probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip										
5	Ultrasonic/Integrated probes 5mm Lap Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm (using ultrasonic/RF energy), 36 cm shaft length with ergonomic handle	15 nos.									
6	Ultrasonic/Integrated probes 5mm open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm (using ultrasonic/RF energy), 36 cm shaft length with ergonomic handle	15 nos.									

Item No. 4 (Rfx/Event number 300002779)**Full HD Video Endoscope System (2 nos.)
with Endoscopic Ultrasound System (1 no.)**

Sl. No	Reference to the bidding document	Existing specification/clause of the bidding document	Amended as
1	Page no. 53 para I.1	Build in HDTV compatible CCD	Built in HDTV Compatible CCD/CMOS
2	Page no. 53 para I.1	Should have Chrome endoscopy imaging such as NBI/SPIES/I Scan/ FICE or equivalent	Should have real time optical Chrome endoscopy imaging such as NBI/BLI/OE or equivalent
3	Page no. 53 para I.1.d	Depth of Field: Normal 4/5-100 mm or better	Depth of field : 5-100 mm or better
4	Page no. 54 I.2	Build in HDTV compatible CCD	Built in HDTV Compatible CCD/CMOS
5	Page no. 54 para I.2	Should have optical chrome endoscopy imaging such as NBI/SPIES/ISCAN/ FICE or equivalent	Should have real time optical Chrome endoscopy imaging such as NBI/BLI/OE or equivalent
6	Page no. 54 para I.2	Inbuilt Feature like Variable/Graduated stiffness, High force transmission & Passive Bending for ease of Insertion.	Variable/Manually controllable stiffness
7	Page no. 54 I.2.c	Depth of field : 4/5-100 mm, Near 2-6 mm or better	Depth of field : 5-100 mm or better
8	Page no. 54 I.2.h	Total Length 2000 mm or more	Total Length 1900 mm or more
9	Page no. 54 Para I.3	Full HD Side Viewing Duodenovideoscope with accessories-1 no.	High Resolution/Full HD Side Viewing Duodenovideoscope with accessories-1 no.
10	Page no. 54 Para I.3	Suitable for optical chrome endoscopy imaging such as NBI/SPIES/ISCAN/ FICE or equivalent	Suitable for real time optical chrome endoscopy imaging such as NBI/BLI/OE or equivalent
11	Page no. 54 I 3 b	Direction of View: 5 Deg/10 Deg, backward oblique viewing	Direction of View: between 5 Deg to 10 Deg , backward oblique viewing
12	Page no. 56 I.5	Should be compatible HD plus video scopes with optical chrome endoscopy imaging such as NBI/SPIES/I Scan/ FICE or equivalent.	Should be compatible HD plus video scopes with real time optical chrome endoscopy imaging such as NBI/BLI/OE or equivalent
13	Page no. 56 I.5	Recording of both still and moving images equipped with one touch connection of scopes. Archival and	Recording of still or moving images equipped with one touch connection of scopes. Archival

		printing facility should be provided	and printing facility should be provided
15	Page no. 56 I.5	Should have in built light source or separate light source with NBI/SPIES/I Scan/ FICE or equivalent	Should have in built light source or separate light source with real time optical chrome endoscopy imaging such as NBI/BLI/OE or equivalent
16	Page no. 56 I.5	NBI/SPIES/ I Scan/FICE or equivalent capability LED or NBI/SPIES/ I Scan/FICE or equivalent capability 300W xenon light source with halogen back up. Two xenon spare lamps to be supplied along with the machine incase of xenon light source	Real time optical chrome endoscopy imaging such as NBI/BLI/OE or equivalent capability LED or 300W xenon light source with halogen/LED back up . Two xenon spare lamps to be supplied along with the machine incase of xenon light source
17	Page no. 57 Para I.6	Full HIGH DEFINITION LCD MONITOR	Full HIGH DEFINITION LCD/LED MONITOR
18	Page no. 57 Para I.6	High definition LED 26"or more monitor – 1 no. with high resolution 1920X1080p	High definition LCD/LED 26"or more monitor – 1 no. with high resolution 1920X1080p
19	Page no. 57 II 1 a)	EUS images with multiple selectable frequencies between 5 to 10 MHz	EUS images with multiple selectable frequencies between 5 to 10 MHz or better
20	Page no. 57 II 1 b)	Direction of view should be 50-60 degree Forward-oblique	Direction of view should be 40-60 degree Forward-oblique
21	Page no. 57 II 1 b)	Depth of field should be 5 to 100 mm or less	Depth of field should be 5 to 100 mm or better
22	Page no. 57 II 1 b)	Distal end outer diameter ≤ 12 mm	Distal end outer diameter ≤ 15 mm
23	Page no. 57 II 1 b)	Insertion tube outer diameter of ≤11 mm	Insertion tube outer diameter of ≤13 mm
24	Page no. 57 II 1 b)	Videoscope should have FNA (therapeutic) capability	Videoscope should have FNA (therapeutic) capability. FNA needle 19, 22 and 25 guage, 100 no. each should be supplied
25	Page no. 57 II 2 a)	EUS images with multiple selectable frequencies between 5 to 10 MHz	EUS images with multiple selectable frequencies between 5 to 10 MHz or better
26	Page no. 57 II 2 b)	Direction of view should be Forward	Direction of view should be Forward or Forward oblique
27	Page no. 57 II 2 b)	Depth of field should be 5 to 100 mm or less	Depth of field should be 5 to 100 mm or better
28	Page no. 57 II 2 b)	Distal end outer diameter < 13mm	Distal end outer diameter 14mm or less
29	Page no. 58 II 3	Compatible with trans-abdominal USG probes (one wideband convex and one linear trans-abdominal probe should be supplied with the system) – Optional – price to be offered seperately	Deleted

30	Page no. 58 II 3	3D imaging options should be available	Deleted
31	Page no. 58 II 3	4D imaging options should be available (one 4D probe should be supplied with the system)	Deleted
32	Page no. 58 II 3	Real Time Spatial Compound imaging technology should be available	Deleted
33	Page no. 58 II 3	High Definition dynamic tissue Harmonic Imaging should be available	Tissue Harmonic Imaging should be available
34	Page no. 58 II 3	Multiple selectable frequencies between 5 to 10 MHz	Multiple selectable frequencies between 5 to 10 MHz or better
35	Page no. 58 II 3	Possibility to retrieve images through USB port and DVD-RW to record	Possibility to retrieve images through USB port or DVD-RW to record internally/externally
36	Page no. 58 II 3	Elastography facility would be preferred	Deleted
37	Page no. 58 III	Trolley to mount all equipment, scopes and accessories Video Endoscopy workstation/trolley with space for accommodation of a LED HD monitor (26" or more in size) , HD video processor and light source, endoscope and endoscope ultrasound system - 1 no.	Trolley to mount all equipment, scopes and accessories Video Endoscopy workstation/trolley with space for accommodation of a LED HD monitor (26" or more in size) , HD video processor and light source, endoscope and endoscope ultrasound system - 2 nos.
38	Page no. 58 IV	Suitable computer system with UPS, Printer and trolley, endoscopic software to be supplied along with the unit. Bidder should provide networking from video processor to computer - 1 no.	Suitable computer system with UPS, Printer and trolley, endoscopic software to be supplied along with the unit. Bidder should provide networking from video processor to computer - 2 nos.
39	Page no. 58 Para VII	Price of each of the accessories and consumables should be quoted separately and prices to be fixed for 5 years	Deleted
40	BOQ Sl.no.10	Trolley as per technical specifications - 1no.	Trolley as per technical specifications - 2 nos.
41	BOQ Sl.no.11	Computer system as per technical specifications - 1 no.	Computer system as per technical specifications - 2 nos.

Item No. 5 (Rfx/Event number 300002781)**Semi-Rigid Video Thoracoscope System**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 60 3.2 -6	Operates on 300 W Xenon lamp.	Operates on 300W Xenon/ LED light source
2	Page no. 60 3.2 -9	Minimum 23" LCD/LED Medical Grade colour monitor with HD resolution	Minimum 23" LCD/LED Medical Grade colour monitor with Full HD resolution
3	Page no. 60 3.2 -10	Should be supplied with suital sterilisation trays - 2 nos	Should be supplied with suitable sterilisation trays - 2 nos
4	Page no. 61 BOQ Sl.no. 2	Video processor with light source , Monitor and Recording system with capacity of 5 TB - 1 no.	Video processor with light source as per technical specifications - 1 no.
5		Added BOQ item	Compatible Biopsy forcep, Suction tube, Powder blower and Flexible trocar for thoracoscopy cases - 2 no. each

Item No. 6 (Rfx/Event number 300002782)**Full HD Video Bronchoscope System with Endobronchial Ultrasound System**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 62 A	The flexible Fibre optic Bronchoscope should be supplied complete with light source and trolley and minimum 15" LCD Monitor	The flexible Bronchoscope should be supplied complete with light source and trolley and minimum 15" LCD monitor
2	Page no. 62 Adult Scope A 3.	Distal end diameter should be 5 mm or less	Distal end diameter should be 6.5 mm or less
3	Page no. 62 Adult Scope A 4.	Insertion tube diameter should be 5 mm or less	Insertion tube diameter should be 6 mm or less
4	Page no. 62 Adult Scope A 5.	Channel diameter should be 2.0 mm or more	Channel diameter should be 2.8 mm or more
5	Page no. 62 Paediatric Scope: A 3.	Distal end diameter should be 2.4 mm or less	Distal end diameter should be 3.8 mm or less

6	Page no. 62 Paediatric Scope: A 4.	Insertion tube diameter should be 2.4 mm or less	Insertion tube diameter should be 3.8 mm or less
7	Page no. 62 FULL HD Video Processor & Light source	1. Outputs - RGB, Y/C, VBS Composite, XGA & DV simultaneous	1. Outputs - RGB, Y/C, VBS Composite, XGA & DVI simultaneous
8	Page no. 62 FULL HD Video Processor & Light source	6. Light source - Combined or separate LED with emergency backup facility.	6. Combined or separate LED/ Xenon light source with emergency backup facility
9	Page no. 62 FULL HD Video Processor & Light source	10. One spare LED Lamp should be supplied	10. 2 nos. spare xenon lamp should be supplied in case of xenon light source
10	Page 63 Para B. 1	1. Ultrasonic Broncho fiber videoscope (for EBUS-TBNA) 1.1 Field of view At least 80° (at least 35° forward oblique) 1.2 Depth of field : Approximately 2-50 mm 1.3 Tip deflection : Up at least 120° Down at least 90° 1.4 Distal end : Probe not more than 6.5 x 7.0 mm Optic not more than 7.5mm 1.5 Insertion tube outer diameter : Not more than 6.5 mm 1.6 Instrument channel width : At least 2 mm 1.7 Working length : At least 600 mm 1.8 Total length : Not more than 900 mm 1.9 Acoustic frequency : 5-10 MHz switchable 1.10 Scan Direction : Longitudinal 1.11 Scan System : Convex 1.12 Scan Angle 50° or more	Deleted
11	Page no. 63 B 2- Radial Probes	2.2 Frequency range of 7.5 to 30 MHz enabling observation at high frequencies to provide higher resolution of Superficial Layers	2.2 Frequency range of 7.5 to 20 MHz or better enabling observation at high frequencies to provide higher resolution of Superficial Layers
12	Page no. 63 B 2- Radial Probes	2.3 Dual-plane reconstruction combining radial and linear images.	Para Deleted

13	Page no. 63 B 2- Radial Probes	2.6 Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz – 1 No.	2.6 Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz or 20 MHz-30 MHz – 1 No.
14	Page no. 63 B 2- Radial Probes	2.7 Ultrasonic probe diameter of 2.6 mm with Balloon Sheath and can easily fit through and bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 20 MHz – 1 No.	Deleted
15	Page no. 63 B 2 Radial Probes	2.8 Ultrasonic Probe Slim 1.7 mm Outer Diameter with Frequency of 30 MHz – 1 No	2.8 Ultrasonic Probe 1.7 mm outer diameter with Frequency of 30MHz or 20 MHz-30MHz – 1 No.
16	Page no. 63 B 2 Radial Probes	2.9. Ultrasonic Probe diameter of 2.6 mm with Balloon Sheath can easily fir through any bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 30 MHz – 1 No.	Deleted
17	Page 63 B.2- Radial Probes	Added Para	2.10 Field of view atleast 80-120 deg (atleast 10-35 degree forward oblique) 2.11 Depth of field : Approximately 2-50 mm 2.12 Tip deflection : Up at least 120° Down at least 90° 2.13 Distal end : Probe not more than 6.5 x 7.0 mm Optic not more than 7.5 mm 2.14 Insertion tube outer diameter : Not more than 6.5 mm 2.15 Instrument channel width : At least 2 mm 2.16 Working length : At least 600 mm 2.17 Total length : Not more than 900 mm 2.18 Scan Angle 45° or more
18	Page no. 64 B 3- Linear Probes	3.3 Dual-plane reconstruction combining radial and linear images.	Deleted
19	Page no. 64 B 3- Linear Probes	3.5 Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz – 1 No.	3.5 Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20MHz or 20 MHz-30MHz – 1 No.

20	Page no. 64 B 3- Linear Probes	3.6 Ultrasonic probe diameter of 2.6 mm with Balloon Sheath and can easily fit through and bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 20 MHz – 1 No.	Deleted
21	Page no. 64 B 3 – Linear Probes	3.7 Ultrasonic Probe Slim 1.7 mm Outer Diameter with Frequency of 30 MHz – 1 No	3.7 Ultrasonic Probe 1.7 mm outer diameter with Frequency of 30MHz or 20 MHz-30MHz – 1 No.
22	Page no. 64 B 3 Linear Probes	3.7- Ultrasonic Probe diameter of 2.6 mm with Balloon Sheath can easily fir through any bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 30 MHz – 1 No.	Para Deleted
23	Page 63 & 64 Para B.3- Linear Probes	Added Para:	Added Para under Linear probe: 3.10 Field of view atleast 80-120 deg (atleast 10-35 degree forward oblique) 3.11 Depth of field : Approximately 2-50 mm 3.12 Tip deflection : Up at least 120° Down at least 90° 3.13 Distal end : Probe not more than 6.5 x 7.0 mm Optic not more than 7.5mm 3.14 Insertion tube outer diameter : Not more than 6.5 mm 3.15 Instrument channel width : At least 2 mm 3.16 Working length : At least 600 mm 3.17 Total length : Not more than 900 mm 3.18 Scan Angle 45° or more
24	Page no. 64 Para B 4.1	Compatible with the above EBUS puncture scope & radial brobes	Compatible with the above EBUS puncture scope, linear & radial probes
25	Page no. 64 Para B 4.2	Real time 3D image	Deleted
26	Page no. 64 Para B. 5	The EBUS system should be supplied with automatic dishwasher for cleansing & disinfection having minimal following specifications:	Deleted
27	Page no. 65 Para E	Trolley: Suitable Trolley to mount monitor, scopes, light source and all accessories.	Trolley: Suitable Trolley to mount monitor, scopes, light source, video processor,

			ultrasound processor, videoscopes, probes and all accessories.
28	Page no. 65 Para G	2 weeks training for two at a mutually convenient center.	2 weeks training for two at a mutually convenient center in India
29		Added Para:	Added Para: Recording System for review & publication: Should be supplied with recording & archival system
30	Page no. 65 BOQ Sl.no.1	Flexible Fiberoptic Bronchoscope Adult as per technical specifications - 1 no.	Flexible Bronchoscope Adult as per technical specifications-1 no.
31	Page no. 65 BOQ Sl.no.2	Flexible Fiberoptic Bronchoscope Paediatric as per technical specifications-1 no.	Flexible Bronchoscope Paediatric as per technical specifications-1 no.
32	Page no. 65 BOQ Sl.no.4	Video Processing System with Computer as per technical specifications - 1 no.	FULL HD Video Processor & Light source as per technical specifications- 1 no.
33	Page no. 65 BOQ Sl.no.5	Light Source, LED as per technical specifications-1 no.	Deleted
34	Page no. 65 BOQ Sl.no.6	Trolley-1no.	Deleted
35	Page no. 65 BOQ Sl.no.7	Spare LED bulb-1no.	Deleted
36	Page no. 65 BOQ Sl.no.12	Ultrasonic Broncho fiber videoscope (for EBUS-TBNA) as per technical specifications	Deleted
37	Page no. 65 BOQ Sl.no.15	Ultrasound Processor with Colour Doppler function as per technical specifications-1 no.	Digital Ultrasound Scanner / Colour Doppler as per technical specifications - 1 no.
38	Page no. 65 BOQ Sl.no.17	EBUS puncture needles as per technical specifications - 10 nos.	EBUS puncture needles -20 nos.
39	Page no. 65 BOQ Sl.no.19	Mobile trolley to mount the EBUS system and ultrasound as per technical specifications - 1 no.	Trolley as per technical specifications - 1 no.
40	BOQ	Added Para	BOQ Sl.no.23 Computer with software as per specifications- 1 no.
41	BOQ	Added Para	BOQ Sl.no.24 Full HD monitor as per technical specifications-1 no.
42	BOQ	Added Para	BOQ Sl.no.25 EBUS balloon-2 nos.
43	BOQ	Added Para	BOQ Sl.no.26 EBUS applicator-2nos.

Item No. 7 (Rfx/Event number 300002783)
Adult and Pediatric Reusable Flexible Intubation Video Endoscope with Screen

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page no. 66 Para 2.	Screen 7 inch or more in size for display with clearly arranged soft keys for immediate use. The screen should have HDMI or HD for connecting to a big screen. Also, there should be port to connect USB drive.	Screen 7 inch or more for each scope in size for display with clearly arranged soft keys for immediate use. The screen should have HDMI or HD for connecting to a big screen. Also, there should be port to connect USB drive.
2	Page no. 66 14 a)	a) Tip deflection UP/DOWN: 140°/140° or more	Tip deflection UP/DOWN: 140°/ 130° or more
3	Page no. 66 14 c)	c) Working Length: at least 65 cm,	Working Length: at least 60 cm
4	Page no. 66 14 d)	d) Total length: 90 cm or more	Total length: 85 cm or more
5	Page no. 66 15 c)	Working Length: at least 65 cm,	Working Length: at least 60 cm
6	Page no. 66 15 d)	Total length: at least 90 cm or more	Total length: 85 cm or more
7	Page no. 66 Para 16	In addition, one Pediatric bronchoscope at least 2.5mm must be supplied and should be compatible with existing monitor.	In addition, one Pediatric bronchoscope at least 3.0mm must be supplied and should be compatible with existing monitor
8	Page no. 67 Para 19	Computer with software should be supplied with suitable computer system with facility for recording images and video.	Deleted
9	Page no. 67 BOQ Sl.no.5	Trolley as per technical specifications - 1 no.	Trolley as per technical specifications - 3 nos.
10	Page no. 67	Added BOQ items	Sl.no. 6: Screen 7" or more as per technical specifications - 9 nos. Sl.no.7: Biopsy forceps – 2 nos. Sl.no.8: Foreight body removal forceps - 2 nos. Sl.no.9: Brush biopsy forceps - 2nos.

Item No. 8 (Rfx/Event number 3000002784)
Video Cystoscope

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 68 Para 1	Instrument channel: 6.5 mm or more	Instrument channel: 6.5 Fr or more
2	Page 68 Para 3	Light source: Should have following technical specifications/features -1 no Separate/combined module from video processor Must be latest and high end model from bidder Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied Should have inbuilt air pump	Deleted
3	Page 68 Para 4.1	Outputs - RGB, Y/C, VBS Composite, XGA & DV simultaneous	Outputs - RGB, Y/C, VBS Composite, XGA & DVI simultaneous.
4	Page 68 Para 4.6	Light source - Combined or separate LED with emergency backup facility.	Light source - Combined or separate LED/ Xenon light source.
5	Page 68 Para 4.7	Air pump - Inbuilt air pump with minimum two variable air flow control.	Deleted
6	Page 68 Para 4.8	Lamp can be turned on/off without turning off the equipment.	Deleted
7	Page 68 Para 4.9	Electronic magnification up to 1.5X by a touch of scope remote switches	Deleted
8	Page 68 Para 4.10	One spare LED Lamp should be supplied.	2 nos. spare xenon lamps to be offered in case of xenon light source
9	Page 69 Para 6	Should be supplied with suitable computer system with facility for recording images and video.	Should be supplied with suitable computer system with facility for recording images and video. Color laser printer and trolley to mount computer system & printer to be supplied
BOQ for Video Cystoscope			
10	BOQ Sl.no. 2	Light source as per technical specifications - 1 no.	Deleted

Item No. 9 (Rfx/Event number 3000002785)
Flexible Nasopharyngolaryngoscope

Sl. No	Reference to the bidding document	Existing specification/clause of the bidding document	Amended as
1	Page 70 B-2.	Angle of view 100-110 deg	Angle of view 85 degree or more
2	Page 70 B-3.	Working length 20-25 cm or better	Working length 25 cm or more
3	Page 70 B-4.	Outer diameter 5-5.5 mm	Outer diameter: 5.5 mm or less
4	Page 70 B-6.	Deflection: upwards upto 150 deg. Downward upto 150 deg.	Deflection upwards 130 deg or more and downward 100 deg or more

Item No. 10 (Rfx/Event number 3000002786)
Flexible Hystero- Fiberscope Set

Sl. No	Reference to the bidding document	Existing specification/clause of the bidding document	Amended as
1	Page 71 Para 2.a	Separate/combined module from video processor	Deleted
2	Page 71 Para 2.c	Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	Powerful 300 Watt Xenon or LED light source.
3	Page 71 Para 2.d	Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source	Lamp life should not be less than 500 hrs (approx), 2 nos. spare xenon bulbs to be supplied along with light source in case of xenon light source

Item No. 11 (Rfx/Event number 3000002787)
Hysteroscope System

Sl. No	Reference to the bidding document	Existing specification/clause of the bidding document	Amended as
1	Page 72 Para 1	HYSTEROSCOPE TELESCOPE - Forward-Oblique Telescope 30°, enlarged view, diameter 2.9-3.0 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated	HYSTEROSCOPE TELESCOPE - Forward-Oblique Telescope 30°, enlarged view, diameter 2.7-3.0 mm , length 30 cm, autoclavable, fiber optic light transmission incorporated
2	Page 72 Para 2	DIAGNOSTIC OFFICE HYSTEROSCOPE SHEATH -	DIAGNOSTIC OFFICE HYSTEROSCOPE SHEATH -

		Hysteroscope sheath for diagnostic and continuous irrigation (inflow & outflow), size 4.5-4.6mm sheath for use with 2.9-3.0 mm hysteroscope telescope	Hysteroscope sheath for diagnostic and continuous irrigation (inflow & outflow), size 3.5-4.6 mm sheath for use with 2.7-3.0 mm hysteroscope telescope
3	Page 72 Para 4.c	DISSECTION-Bipolar Dissection Electrode , 5Fr,36 cm, Bipolar	Deleted
4	Page 72 Para 5, 5-a to 5-e	Electro-Surgical Unit: 300 Watt or more	Deleted
5	Page 73 Para 8	Full High Definition Video Processor (3 chip CCD)	Full High Definition Video Processor (3 chip CCD/3 chip CMOS)
6	Page 73 Para 8-c)	Optical image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions or Similar Technology.	Optical/ digital image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions or Similar Technology
7	Page 73 Para 9	Full High Definition 3CCD Camera Head:	Full High Definition 3CCD/3 Chip CMOS Camera Head
8	Page 73 Para 9.b	Should have motorized optical zoom up to 2x	Deleted
9	Page 73 Para 9.c	Should have motorized focus function which can be varied steplessly from coarse to fine image.	Deleted
10	Page 73 Para 9.e	The camera head must be autoclavable for achieving better Cleaning, Disinfection and Sterilisation.	The camera head must be sterilizable for achieving better Cleaning, Disinfection and Sterilisation
11	Page 73 Para 10.a	Separate/combined module from video processor	Deleted
12	Page 73 Para 10.c	Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	Powerful 300 Watt Xenon light source /LED light source
13	Page 73 Para 10.d	Lamp life should not be less than 500 hrs (approx), one spare 300 W xenon lamp should be supplied in case of xenon light source	Lamp life should not be less than 500 hrs (approx). 2 nos. spare 300 W xenon bulbs should be supplied in case of xenon light source
14	Page 73 Para 10	Added Para:	e. Compatible light guide cables- 2 nos, minimum 3 mtr. Length should be supplied along with light source
15	Page 73 Para 13	Recording and Reporting Software with hardware (latest desktop computer and colorlaserjet printer)	Deleted

16	Page 74 BOQ Sl.no.6	Bipolar Dissection Electrode as per technical specifications – 1 no.	Bipolar Dissection Electrode as per technical specifications (Compatible with scope & cautery of any reputed make) – 1 no.
17	BOQ sl.no. 12	Full High Definition 3CCD Camera Head as per technical specifications - 1 no.	Full High Definition 3CCD/3 Chip CMOS Camera Head as per technical specifications - 1 no.

Item No. 12 (Rfx/Event number 3000002788)**Digital Video Colposcopy System**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 75 Para 2.f	Focussing range : 130 mm	Focusing range : 130 mm or (220-350 mm)
2	Page 75 Para 2.g	Inclination angle of Binocular tube: 45 degree	Deleted
3	Page 75 Para 2.i	• Separate/combined module from video processor	Deleted
4	Page 75 Para 2.i	• Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	Powerful 300 Watt Xenon Lamp/LED light source
5	Page 75 Para 2.i	• Lamp life should not be less than 500 hrs (approx), one spare 300 W xenon lamp should be supplied in case of xenon light source	Lamp life should not be less than 500 hrs (approx). 2 nos. spare 300 W xenon bulbs should be supplied in case of xenon light source
6		Added Para:	Light source should be supplied alongwith 2 nos. Light guide cables of 3 mtr or more length

Item No. 13 (Rfx/Event number 3000002789)**Rigid Ductoscope**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
	Page 77	Title of Item: Rigid Ductoscope	Ductoscope
	Page 77 Para 6.	Demonstration of quoted model should be given if desired	Deleted

Item No. 14 (Rfx/Event number 3000002790)**Rigid Bronchoscope**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 78 Para 1,k	Adaptor from bronchoscope to any type of pediatric respiration equipment.	Adaptor from bronchoscope to any type of adult respiration equipment
2	Page 79 Para 3.b	Should have motorized optical zoom up to 2x	Should have Integrated zoom lens
3	Page 79 Para 3.c	Should have motorized focus function which can be varied steplessly from coarse to fine image.	Should have focus function which can be varied steplessly from coarse to fine image.
4	Page 79 Para 3.e	The camera head must be autoclavable for achieving better Cleaning, Disinfection and Sterilisation.	The camera head must be sterilizable for achieving better Cleaning, Disinfection and Sterilisation
5	Page 79 Para 4.a	Separate/combined module from video processor	Deleted
6	Page 79 Para 4.c	Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	Powerful 300 Watt Xenon Lamp/LED light source.
7	Page 79 Para 4.d	Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of Xenon light source	Lamp life should not be less than 500 hrs (approx). 2 nos. spare 300W xenon lamp should be supplied in case of Xenon light source

Item No. 15 (Rfx/Event number 3000002791)**Rigid Cysto-Resectoscope**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 82 Para 1.c	Should have Robust ceramic beak with lifetime guarantee against thermal damage	Should have Robust ceramic beak with guarantee during warranty period
2	Page 82 Para 2-a.	Telescope of 4 mm with 0, 30, 70 deg direction of view	Telescope of 4 mm with 0, 30, 70 deg direction of view - 1 each
3	Page 82 Para 2.n	Compatible Monopolar and Bipolar HF Cable, 4 m to be provided	Compatible Monopolar and Bipolar HF Cable, 3 mtr or more to be provided
4	Page 82 Para 2.t	Bipolar HF-Resection Electrode, Roller type or similar (5 pc)	Bipolar HF-Resection Electrode, Roller type or halfmoon shape or similar (5 pc)

5	Page 82 Para 2.u	BipolarHF-Resection Electrode, 45 Deg , Needle or similar (6 pc)	BipolarHF-Resection Electrode, Needle or similar (6 pc)
6	Page 82 Para 2.v	BipolarHF-Resection Electrode, Medium Cutting Loop or similar (12 pc)	BipolarHF-Resection Electrode, medium or 24/26 Cutting Loop or similar (12 pc)
7	Page 82 Para 2.x	BipolarHF-Resection Electrode, Button, for plasma vaporization or similar (12 pc)	BipolarHF-Resection Electrode, Button, for plasma vaporization/vapo-enucleation process or similar (12 pc)
8	Page 82 Para 2.y	Monopolar HF-Resection Electrode, cutting (5 pcs)	Monopolar HF-Resection Electrode, cutting / angled cutting loop - 5 nos.
9	Page 82 Para 2.z	Monopolar HF-Resection Electrode, coagulation (5 pcs)	Monopolar HF-Resection Electrode, coagulation/ ball shaped - 5 nos.
10	Page 82 Para 3.a	Separate/combined module from video processor	Deleted
11	Page 82 Para 3.c	Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	Powerful 300 Watt Xenon Lamp/LED light source.
12	Page 82 Para 3.d	Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source	Lamp life should not be less than 500 hrs (approx). 2 nos. spare 300W xenon bulbs should be supplied in case of xenon light source
13	Page 82 Para 3	Added Para:	Should be supplied with Light guide cables 3 mtr or more length - 2 nos. with each light source. Adaptors for connecting to rigid scopes (proctoscope, sigmoidoscope etc.) of other reputed makes should be offered
14	Page 82 Para 4	Supplier should provide OEM Trolley along with the system	Supplier should provide Trolley along with the system from same principle manufacturer
15	Page 83 BOQ Sl.no.1	Telescope of 4 mm with 0, 30, 70 deg direction of view - 1 no.	Telescope of 4 mm with 0, 30, 70 deg direction of view - 1 no. each
16	Page 83 BOQ Sl.no.14	Compatible Monopolar and Bipolar HF Cable, 4 m to be provided - 1no.	Compatible Monopolar and Bipolar HF Cable, 3 mtr. or more to be provided - 1 no.
17	Page 83 BOQ Sl.no.20	Bipolar HF-Resection Electrode, Roller type or similar -5 nos.	Bipolar HF-Resection Electrode, Roller type or halfmoon shape or similar - 5 nos.
18	Page 83 BOQ Sl.no.21	BipolarHF-Resection Electrode, 45 Deg , Needle or similar - 6 nos.	BipolarHF-Resection Electrode, Needle or similar - 6 nos.
19	Page 83 BOQ Sl.no.22	BipolarHF-Resection Electrode, Medium Cutting Loop or similar - 12 nos.	BipolarHF-Resection Electrode, medium or 24/26 Cutting Loop or similar - 12 nos.
20	Page 83 BOQ Sl.no.24	BipolarHF-Resection Electrode, Button, for plasma vaporization or similar -12 nos.	BipolarHF-Resection Electrode, Button, for plasma vaporization/vapo-enucleation

			process or similar - 12 nos.
21	Page 83 BOQ Sl.no.25	Monopolar HF-Resection Electrode, cutting - 5 nos.	Monopolar HF-Resection Electrode, cutting / angled cutting loop - 5 nos.
22	Page 83 BOQ Sl.no.26	Monopolar HF-Resection Electrode, coagulation - 5 nos.	Monopolar HF-Resection Electrode, coagulation/ ball shaped - 5 nos.

Item No. 16 (Rfx/Event number 3000002792)
Rigid Proctoscope

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 84 Para 15 & 15.a to 15.d	Light Source: Should have following technical specifications/features Separate/combined module from video processor Must be latest and high end model from bidder Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of Xenon light source	Deleted
2	Page 85 BOQ Sl.no.15	Light Source as per technical specifications - 1 no.	Deleted

Item No. 17 (Rfx/Event number 3000002793)
Rigid Sigmoidoscope

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 86 Para 3, 3a to 3d	300 Watt Xenon/LED Light Source : Should have following technical specifications/features a. Separate/combined module from video processor b. Must be latest and high end model from bidder c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED d. Lamp life should not be less	Deleted

		than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of Xenon light source	
2	Page 87 BOQ Sl.no.11	Light Source as per technical specifications - 1 no.	Deleted

Item No. 19 (Rfx/Event number 3000002795)
Endoscopy washer & disinfector system

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 89 Para 1	Fully automatic microprocessor based endoscope re- processor.	Fully automatic microprocessor or PLC based endoscope re- processor
2	Page 89 Para 4	Should be with single door with front loading system with glass window and light inside the chamber.	Should be with single door with front loading or top loading system with glass window and light inside the chamber
3	Page 89 Para 6	Should have Touch control panel with LCD Color display with highlighting of remaining cycle time to cycle completion.	Should have Touch control panel/membrane touch button/keypad with LCD Color display with display of remaining cycle time to cycle completion.
4	Page 89 Para 7	Should have integrated sterile air filter (0.2µm) for channel purging and drying.	Deleted
5	Page 89 Para 8	Should be with integrated endoscope channel monitoring system with 2 independent sensors.	Should be with integrated endoscope channel monitoring system (to monitor all channels including leak test channel) with 2 independent sensors
6	Page 89 Para 10	Should have conductivity sensor and two chemical dosing pumps and also should have option for 3rd dosing pump. Should have built in drying facility for endoscopes.	Should have sensor and two chemical dosing pumps and also should have option for 3rd dosing pump. Should have built in drying facility for endoscopes
7	Page 89 Para 11	Should be compatible and tested with Peracetic acid (Cold disinfection) and Glutaraldehyde (thermo-chemical disinfection).	Should be compatible and tested with per acetic acid (Cold disinfection), Glutaraldehyde (thermo- chemical disinfection) and/or enzymatic detergent for washing phase
8	Page 89 Para 14	Should be also provided with Drying and Storage cabinet for	Should be also provided with 2 nos. Drying and Storage cabinet for

		endoscopes with capacity of storage of at least 08 endoscopes.	endoscopes with capacity of storage of at least 05 endoscopes.
9	Page 89 Para 18	Bidder should prices for all accessories & consumables seperately and price to be fixed for 5 years	Bidder should quote prices of all consumable items/reagents/detergetnts for 10 years in prescribed price bid format
10		Added Para:	Note: Quantity given in the BOQ for consumables items/reagents/detergents, is for 10 years period for calculation of L1 ranking. (1st year consumables quantity is already included in equipment BOQ & separate BOQ given for quoting consumables price from 2nd to 10th year) However order shall be placed only for one year and subsequent year order may be placed as and when required basis.
11		Added Para:	Suitable RO system with tank should be supplied along with the machine. Consumables required for RO during warranty & CMC should be provided free of cost
12		Added Para:	Endoscopic Washer Disinfector The rate for all reagents/detergent etc. required for 200 cycles should be quoted.
13	Page 90	Added BOQ item	4. all reagents/detergent etc. required for 200 cycles
14	Page 90	Added BOQ item	5. RO system as per technical specifications

ADDED BOQ for Consumables:

Price of consumables in INR till consignee site (plus applicable current rate of GST) to be quoted in price bid:

S. No.	Name of the Item	Quantity per Year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
1	The rate for all reagents/detergent etc. required for 200 cycles	1 set									

Item No. 20 (Rfx/Event number 3000002796)
Video Laparoscopy Set HD System

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 91	Please refer to the Note provided at the end for the Technical Specifications, Complete set of equipments should be quoted of same make/manufacturer otherwise the bids shall be summarily rejected	Please refer to the Note provided at the end for the Technical Specifications, Camera system, light source, monitors, Telescopes, Insufflator should be of same make
2	Page 91 Para 2	LED/Xenon light source with 300 watts Standby Mode TOGGLE MODE FOR WHITE LIGHT & ICG/IR/ENV light source should be compatible for ICG/IR/ENV	Xenon light source 300 watts Standby Mode TOGGLE MODE FOR WHITE LIGHT & ICG/IR/ENV light source should be compatible for ICG/IR/ENV Added Para: Should be supplied along with 3 nos. light guide cables 3 mtr or more length
3		Added Para:	Added Para: Para 2a: LED light source with 3 nos. light guide cables of 3 mtr or more length - 1 no.
4	Page 91 Para 3	Fiber Optic Light Cable - 2 nos.	Deleted
5	Page 92 Para 5	Angle of view: 0°, 30°, Diameter 10 mm, Length 28 - 30cms, Autoclavble	Angle of view: 0°, 30°, Diameter 10 mm, Length 28 – 33 cms, Autoclavble - 1 no. each
6	Page 92 6. I	Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated.
7	Page 92 6. II	Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated	Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
8	Page 92 6. III	Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	Forward Telescope 0° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated

9	Page 92 6. IV	Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	Forward Telescope 0° enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated.
10	Page 92 6. V	Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated	Telescope 45°, enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
11	Page 92 6. VI	Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated	Telescope 45°, enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission, incorporated
12	Page 92 7	Should have automatic or manual smoke evacuation facility.	Should have smoke evacuation available in the system or separate smoke evacuation system should be offered
13	Page 92 7	Automatic feedback control for any malfunction. Automatic gas heating to body temperature	Automatic feedback control for any malfunction. Automatic gas heating to body temperature through either inbuilt heating system or through external heating system
14	Page 92 7	Added Para:	Insufflator tubing set - 3 sets should be supplied with each Insufflator
15	Page 92 Para 8	Should have Suction pressure: 0-600 mmHg or more	Should have Suction pressure: 0 to -550 mmHg or more
16	Page 92 Para 8	Added Para:	Suction Irrigation tubing set - 3 sets to be supplied with each suction irrigation machine
17	Page 92 Para 9	Trolley from OEM	Trolley should be from same principle manufacturer
18	Page 92 Para 10	All the items should be compatible with each other & ENV/ICG/IR technology, All the items (CAMERA/LIGHT SOURCE/MONITOR/ FIBRE OPTICABLE & Trolley) should be of same make/ manufacturer for system compatibility, all items should be USFDA OR European CE certified with 4 digit notified body number, Certificate should be submitted with tender documents.	All the items should be compatible with each other & ENV/ICG/IR technology. Camera system, light source, monitors, Telescopes, Insufflator should be of same make for system compatibility. Trolley should be from same principle manufacturer. All items should be USFDA OR European CE certified with 4 digit notified body number, Certificate should be submitted with tender documents.

19	Page 93 Para 12	Laparoscopy Instruments Set	Deleted
20	Page 95 Para 13	IMAGE/VIDEO RECORDING AND DATA ARCHIVING SYSTEM – Qty-1 no	IMAGE and VIDEO RECORDING AND DATA ARCHIVING SYSTEM- Qty 1 no.
21	Page 95 13.2	BI -AMPLIFIED ACTIVE LOUDSPEAKER -1	BI -AMPLIFIED ACTIVE LOUDSPEAKER (100 Watt) -1
22	Page 95 13.3	WIRELESS HEADMIC-1	Wired /WIRELESS HEADMIC-1
23	Page 95 13.4	1-WAY AUDIO/VIDEO STREAMER-1	Para “1-WAY AUDIO/VIDEO STREAMER-1” Deleted
24		Should captures still images, video sequences and audio files	Should captures still images, video sequences
25	Page 95	Writes multi-session and multi-patient CDs/DVDs	Writes multi-session and multi-patient CDs/DVDs/USB
26	Page 95	Controllable via Touch Screen, camera head buttons, footswitch mouse and keyboard	Controllable via Touch Screen or camera head buttons or footswitch mouse or keyboard
27	Page 95	HIPAA compliant	Deleted
28	Page 95	Motherboard: Embedded FLEX-ATX	Deleted
29	Page 96	Microprocessor: Intel® Core 2 DUO T7400	Deleted
30	Page 96	Graphic: Intel® Extreme Graphics 2 Controller onboard	Deleted
31	Page 96	Grabber-card: DVI-D, S- Video, Composite;	Deleted
32	Page 96	Audio: AC97/DD5.1 onboard	Deleted
33	Page 96	RAM: 2 GB DDR2 PC800	Deleted
34	Page 96	Hard disk: 500 GB SATA 3.5“	Hard disk: 500 GB or more internal memory & 2 TB or more external hard disk
35	Page 96	Drive: Slim SATA Blu-Ray/DVD RW/+R	Deleted
36	Page 96	Grabber-card: DVI-D, SDI, S- Video, Composite	Deleted
37	Page 96 Para 14	The DICOM 3 interface should be installed in the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.	Deleted

38	Page 96 Para 15	Prices for all accessories & consumables should be quoted separately and prices to be fixed for 5 years	Deleted
39	BOQ Sl.no.2	Light Source as per technical specifications - 1 no.	Xenon Light Source as per technical specifications - 1 no.
40		Added Para BOQ:	BOQ Sl.no. 2a LED light source as per technical specifications-1 no.
41	BOQ Sl.no.3	Fiber Optic Light Cable as per technical specifications - 2nos.	Deleted
42	BOQ Sl.no.10	I. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2nos.	Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2nos.
43	BOQ Sl.no.11	II. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 29-33cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
44	BOQ Sl.no.12	III. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward Telescope 0° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
45	BOQ Sl.no.13	IV. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward Telescope 0° enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
46	BOQ Sl.no.14	V. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Telescope 45°, enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
47	BOQ Sl.no.15	VI. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated - 2 nos.	Telescope 45°, enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission, incorporated - 2 nos.
48	BOQ Sl.no.16 to 55	Laparoscopy Instruments Set :	Deleted

Item No. 21 (Rfx/Event number 300002797)**Video Laparoscopic set 3D system**

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 99 Para 1)-b.	Integrated video laparoscope, 10 mm, 0 deg and 30° direction of view Rigid or Integrated video laparoscope, 10 mm, 0 deg flexible	Integrated video laparoscope, 10 mm, 0 deg and 30° direction of view Rigid
2	Page 99 Para 2)-a.	Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated	Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
3	Page 99 Para 2)-b	Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated	Forward-Oblique Telescope 30° enlarged view, diameter 5mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
4	Page 99 Para 2)-c	Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated	Forward-Oblique Telescope 0° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
5	Page 99 Para 2)-d	Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated	Forward-Oblique Telescope 0° enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
6	Page 99 Para 2)-e	Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated	Telescope 45°, enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
7	Page 99 Para 2)-f	Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated	Telescope 45°, enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated
8	Page 99 Para 3	Xenon/LED light source – 1 no. a. 3D system should have a Xenon/LED Light Source to keep Laparoscopy field	Xenon light source -1 no. a. 3D system should have a Xenon light souce with ICG/ENV/IR Fluorescence, to keep Laparoscopy field brighten by providing adequate

		<p>brighten by providing adequate white light intensity which Automatically adjusts light intensity to achieve ideal illumination</p> <p>b. The system should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions</p> <p>c. Should be ICG/IR compatible</p> <p>d. Should be 300 Watts Xenon/LED</p>	<p>white light intensity which Automatically adjusts light intensity to achieve ideal illumination</p> <p>b. The system should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions</p> <p>c. TOGGLE MODE FOR WHITE LIGHT & ICG/IR/ENV</p> <p>d. Should be 300 Watts Xenon</p> <p>Added Para: Should be supplied with light cables f 3 mtr or more - 3 nos.</p>
9	Page 99 Para 3	Added Para:	3a: LED light souce with 3 nos. light cables of 3mtr or more length - 1 no.
10	Page 99 Para 6)-b.	Should have internal hard disk drive of 2 TB or more and should have facility of recording on Blu Ray Disc / DVD Disc or USB memory stick if required by user.	Should have internal hard disk drive of 500 GB or more and should have facility of recording on Blu Ray Disc / DVD Disc or USB memory stick if required by user. Further 2TB external hard disk with facility for recording should be provided
11	Page 99 Para 6)-f.	It should have touch screen with screen size of 19 inch or more.	It should have touch screen with screen size of 7 inch or more.
12	Page 99 Para 7)-f.	Should have automatic or manuals smoke evacuation facility	Should have smoke evacuation available in the system or separate smoke evacuation system should be offered
13	Page 99 Para 7		Added Para: Automatic gas heating to body temperature through either inbuilt heating system or through external heating system
14	Page 99 Para 7		Added Para: Should be supplied with Insufflator tubing sets - 3 sets, with each machine
15	Page 99 Para 8	Trolley (video cart) should be supplied for the system OEM - 1 no.	Trolley should be supplied from same principle manufacturer of scopes
16	Page 99 9)	LAPAROSCOPIC Hand Instruments	Deleted
17	Page 103 11.	All items should be from same manufacture unless specified	Camera, 2D monitor, telescopes, Insufflator, Light source should be of same make.
18	Page 103 13	Price for all accessories and consumables should be	Deleted

		quoted separately and prices to be fixed for 5 years	
19		Added Para:	Added Para: ENV/ICG /IR Fleurosense compatible Telescopes Angle of view: 0°, 30°, Diameter 10 mm, Length 28 - 33cms, Autoclavable - 1 no. each
20		Added Para	Added Para: Suction irrigation pump - 1 no. Should have irrigation flow rate: 0-2 L/min or more Should have irrigation pressure: 0-400mmHg or more Should have Suction pressure: 0-550mmHg or more Reusable tube set, suction canisters and other accessoires required should be quoted according for smooth functioning - 3 sets with each suction irrigation system
21	BOQ Sl.no.2	Light source as per technical specifications - 1 no.	Xenon Light source as per technical specifications - 1 no.
22	BOQ Sl.no.2		Added Para Sl.no.2a: LED light source as per technical specifications
23	BOQ Sl.no.8	I. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2nos.	Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2nos.
24	BOQ Sl.no.9	II. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 29-33cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
25	BOQ Sl.no.10	III. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward Telescope 0° enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
26	BOQ Sl.no.11	IV. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Forward Telescope 0° enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.

27	BOQ Sl.no.12	V. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated - 2 nos.	Telescope 45°, enlarged view, diameter 10 mm, length 29-33 cm , autoclavable, fiber optic light transmission incorporated - 2 nos.
28	BOQ Sl.no.13	VI. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated - 2 nos.	Telescope 45°, enlarged view, diameter 5 mm, length 29-33 cm , autoclavable, fiber optic light transmission, incorporated - 2 nos.
29	BOQ Sl.no: 14 to 53		DELETED
30	BOQ		Added Para: BOQ Sl.no.54 ENV/ICG /IR Fleurosense compatible Telescopes Angle of view: 0°, Diameter 10 mm, Length 28 - 33cms, Autoclavble - 1 no. each
31	BOQ		Added Para: BOQ Sl.no.55 ENV/ICG /IR Fleurosense compatible Telescopes Angle of view: 30°, Diameter 10 mm, Length 28 - 33cms, Autoclavble - 1 no.
32	BOQ		Added Para: BOQ Sl.no.56 Suction irrigation system as per technical specifications - 1 no.

Item No. 22 (Rfx/Event number 3000002798)
Video-Laryngoscope for Surgical Oncology

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 107 Para 4	Resuable Blade size: 2, 3, 4 and D blade – 2 no. each size should be quoted.	Disposable Blades made of medical grade polymer, size 2-50 nos., size 3- 50 nos., size 4-100 nos. should be quoted per year
2	Page 107		Added Para: Bidder should quote prices of all consumable items for 10 years in prescribed price bid format
3	Page 107		Added Para: Note: Quantity given in the BOQ for consumables, is for 10 years period for calculation of L1 ranking. (1st year consumables quantity is already included

			in equipment BOQ & separate BOQ given for quoting consumables price from 2nd to 10th year) However order shall be placed only for one year and subsequent year order may be placed on as and when required basis.
4	Page 107 BOQ sl.no.2	Blade size: 2, 3, 4 and D blade - 2 nos. each	Disposable Blade as per technical specifications, size: 2: 50 nos. per year
5	Page 107 BOQ		Added Para BOQ sl.no.3 Disposable Blade as per technical specifications, size 3: 50 nos. per year
6	Page 107 BOQ		Added Para BOQ sl.no.4 Disposable Blade as per technical specifications, size 4: 100 nos. per year

ADDED BOQ for Consumables for ‘Video-Laryngoscope for Surgical Oncology’:

Price of consumables in INR till consignee site (plus applicable current rate of GST) to be quoted in price bid:

S. No.	Name of the Item	Quantity per Year	2nd year	3rd year	4th year	5th year	6th year	7th year	8th year	9th year	10th year
1	Disposable Blade as per technical specifications, size: 2	50 nos.									
2	Disposable Blade as per technical specifications, size: 3	50 nos.									
3	Disposable Blade as per technical specifications, size: 4	100 nos.									

Item No. 23 (Rfx/Event number 300002799)
Video Laryngoscope for Onco Anesthesia

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1.	Page 108 Para 1	Required is Macintosh blade with closed European Metal finish size 2, 3 and 4 with integrated camera chip and LED light illumination for obtaining more than 50000 Lux of brightness.	Required is Macintosh blade with closed European Metal finish size 2, 3 and 4 with integrated camera chip and LED light illumination

Item No. 24 (Rfx/Event number 300002800)
VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device

Sl. No	Reference to the bidding document	Existing specification/ clause of the bidding document	Amended as
1	Page 112 Para 4.ii	Captures still HD images, video sequences (from 3 sources), and audio files	Captures still HD images, video sequences (from 2 sources), and audio files
2	Page 112 Para 4.iii	Resolution of still images should be 1920x1080 and that of video 1080p @25p	Resolution of still images should be 1920x1080 and that of video 1080p
3	Page 112 Para 4.iv	Writes multi-session and multi-patient CDs/DVDs	Writes multi-session and multi-patient CDs/DVDs/ USB
4	Page 112 Para 4.xii	HIPAA compliant	Deleted
5	Page 112 Para 4.xv	xv. Chipset: Intel® 855 GME + Intel® 6300 ESB Embedded	Deleted
6	Page 112 Para 4.xvi	xvi. Processor: Intel® Pentium® M 735	Deleted
7	Page 112 Para 4.xvii	xvii. Graphic: Intel® Extreme Graphics 2 Controller onboard	Deleted
8	Page 112 Para 4.xviii	xviii. Grabber-card: DVI-D, SDI, S-Video, Composite;	Deleted
9	Page 112 Para 4.xix.	xix. Audio: AC97/DD5.1 onboard	Deleted
10	Page 112 Para 4.xx	xx. Optional: AGP Slot onboard	Deleted
11	Page 112 Para 4.xxvi.	I/O ports: 2 x PS/2, 2 x Serial, 3 x RJ45 (LAN), 4 x USB 2.0 (1 x Front), 3 x Audio (Line In, Line Out and Microphone), VGA;	Deleted

12	Page 112 Para 4.xxviii.	DICOM and HL7 interface - The DICOM 3 interface shall be installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.	Deleted
13	Page 113 Para 4.1.j	CO2- bottle holder, max. Diameter 155 mm – 1no.	Deleted

SECTION - VIII

QUALIFICATION CRITERIA

Existing Qualification Criteria of the Bidding Document is amended and superseded by the following:

1. The bidders must be a manufacturer. In case the manufacturer does not quote directly, they may authorise their authorized agent as per proforma of “Manufacturer Authorization Form” as given in the bidding document to quote and enter into a contractual obligation.
2. The bidder should have supplied and installed similar equipment meeting major parameters of technical specification **for at least 80% of the tendered quantity (cumulative quantity) during last Five years from the date of Bid Opening.**
3. In support of 2, the Bidder shall furnish Performance statement in the enclosed Proforma ‘A’.

The Bidder shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly signed alongwith the bid.

4. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at site (in case of non-portable and heavy equipment) for technical acceptability as per the bidding document specifications, before the opening of the Price Bid.

All other contents of the Bidding Document including terms & conditions remain unaltered.