

01-07-2019

**Amendment No. 2**

**Ref.: Tender Enquiry: HITES/PCD/MP/CLINICAL/RC-02/19-20 dated 01.06.2019 & Amendment No.1 dated 25.06.2019**

**Sub: Amendment No. 2 to the referred tender enquiry**

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

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

**For:**

Sch. No.	Rfx. No.	Name of the Items
18	3000004007	Fibre Optic Video Bronchoscope

**Read as:**

Sch. No.	Rfx. No.	Name of the Items
18	3000004007	<b>Video Bronchoscope</b>

**SECTION - VI****LIST OF REQUIREMENTS**

**Existing:**

**1. Details of Requirement:**

Sch. No.	Rfx. No.	Name of the Items	Total Estimated Qty.	Warranty	CMC
18	3000004007	Fibre Optic Video Bronchoscope	16	5	5

**Read As:**

**1. Details of Requirement:**

Sch. No.	Rfx. No.	Name of the Items	Total Estimated Qty.	Warranty	CMC
18	3000004007	<b>Video Bronchoscope</b>	16	5	5

**SECTION - VII****TECHNICAL SPECIFICATIONS**

Tender Page & Para	Existing Para	Read as
<b>Sch. No. 1 RFX No. 3000003990 Operation Theatre Table</b>		
Page 45 Para K	Weight – 250 Kg or more in all positions	Weight – <b>180Kg</b> or more in all positions
<b>Sch No. 2 - Rfx No: 3000003991 - Operation Theatre Ceiling light.</b>		
Page 46 Para E	Illumination Level : 160000Lux Major Dome & Minor dome 120000 Lux	Illumination Level : <b>Min</b> 160000Lux Major Dome & Minor dome <b>Min</b> 120000 Lux
M	Operating/Storage Humidity : 10 – 95%	Operating/Storage Humidity : 30 – 90%
	Added Para	<b>Life of the LED should be minimum 40000 hrs.</b>
<b>Sch.3 Rfx No : 3000003993 - Pedestal Light</b>		

<b>Tender Page &amp; Para</b>	<b>Existing Para</b>	<b>Read as</b>
Para 1.8	Cable length – 2m	<b>Cable length – 6m</b>
<b>3000003994 Suction Machine - Sch NO. 5</b>		
Page 49 para 5	<b>It should be heavy duty and noiseless, with piston/cylinder/Diaphragm technology.</b>	<b>It should be heavy duty and noiseless(less than 60 dB), with piston/cylinder/Diaphragm technology.</b>
Para 8	One plastic suction jar cover, steam sterilizable to be provided extra.	The suction jars should be made of <b>unbreakable</b> plastic and sterilizable
Page 49 para 9	Two extra suction jar (Plastic) of capacity 4-5 ltrs. Should be quoted along with accessories like lid, tubing etc. with the equipment to make the unit functional.	<b>Deleted</b>
<b>3000003995 Sch 6 Pulse oximeter</b>		
Para 4	Accuracy SpO2 : <b>50 to 69%</b> ( $\pm 3\%$ ), 70 to 100 % ( $\pm 3\%$ )	Accuracy SpO2 : 70 to 100 % ( $\pm 3\%$ )
<b>Sch. No. 7 Rfx No. 3000003996 Multi Para Monitors</b>		
<b>Page 50 para 2.2</b>	Capability of storage of patient data and <b>printing of patient reports.</b>	Capability of storage of <b>Non volatile</b> patient data.
<b>Page 50 para 3.2</b>	Should have facility to monitor and display - ECG, NIBP, SpO2(Nellcor/Masimo), Temperature, Respiration and upgradable to ETCO2(Sidestream or Microstream) & IBP.	Should have facility to monitor and display - ECG, NIBP, <b>HR, PR</b> , SpO2(Nellcor/Masimo/ <b>Equivalent Low perfusion and motion tolerant technology for which clinical research paper published in peer reviewed journals to be submitted</b> ), Temperature, Respiration and upgradable to ETCO2(Sidestream or Microstream) & IBP.
<b>Page 51 para 5.1</b>	The unit shall be capable of operating continuously in ambient temperature of 0 -40° C and relative humidity of 15-90%	The unit shall be capable of operating continuously in ambient temperature of 0 -40° C and relative humidity of 15- <b>80%</b>
<b>Page 51 para 5.2</b>	The unit shall be capable of being stored continuously in ambient temperature of 20 – 60° C.	The unit shall be capable of being stored continuously in ambient temperature of 20 – <b>50° C.</b>
<b>Sch No. 9 - 3000003998 - Electro-surgical cautery unit</b>		
14	All the Accessories should be mentioned in BOQ and rate of each accessories should be quoted seperately which should be valid for the entire warranty period. All accessories should be of same make of Main Equipment	All the Accessories should be mentioned in BOQ and rate of each accessories should be quoted seperately which should be valid for the entire warranty period. All accessories should be of same make of Main Equipment or <b>if other make accessories offered the bidder has to submit the European CE with 4 digit notified body no./USFDA/BIS certificate for individual accessories</b>
<b>Sch.10 RFX NO. 3000003999 General Surgery Set</b>		
Page 53 Para 3	<b>Instrument should be European CE or USFDA or BIS approved &amp; copy to be enclosed</b>	<b>Instrument should be European CE/ EC declaration of conformity along with ISO 13485 or USFDA or BIS approved &amp; copy to be enclosed</b>
Page 59 Para 108	A. Craniotomy set Hudson's Brace Trepine set Barr Hole - Burr set Ronqueur Suction Cannula fine tip Medium & Small-3 Bayonett forecapes	A. Craniotomy set Hudson's Brace-1 Trepine set-1 Barr Hole - Burr set-1 Rongeur-1 Suction Cannula fine tip Medium & Small-3 Bayonett forecapes 1 No.
Page 59 Para 108	B Spinal surgery Set Laminectomy. Mastoid retractors with Ratchet- 02 Joint thyroid Retrotractor Tenotomy seissors.	B Spinal surgery Set Laminectomy. Mastoid retractors with Ratchet- 02 Joint thyroid Retrotractor-1 Nos Tenotomy seissors.- 1 Nos

<b>Tender Page &amp; Para</b>	<b>Existing Para</b>	<b>Read as</b>
	Varicose vein stripper- Matalic with Acorn head) Small and medim Large. Mathieus ANAL Retractor (Self retaining) Becks CBD Dilator set-1	Varicose vein stripper- Matalic with Acorn head) Small and medim Large- One each Mathieus ANAL Retractor (Self retaining)- 1 Nos. Becks CBD Dilator set-1
Added Para	Added Para:- 1. Variation of (+/- 10%) is accetable in all the sizes. 2. The 80 % of the total items should be quoted from the same manufacturer and 20 % can be from 3rd party.	Added Para:- 1. Variation of (+/- 10%) is accetable in all the sizes. 2. The <b>75 %</b> of the total items should be quoted from the same manufacturer and <b>25 %</b> can be from 3rd party.
<b>Rfx no- 300004001 Sch. No.: 12</b>		<b>Name of the Item: Vascular set</b>
Para A2	The Instruments should be US-FDA or <b>European CE certified with 4 digit notified body no or BIS. Certified</b>	<b>Instrument should be European CE/ EC declaration of conformity along with ISO 13485 or USFDA or BIS approved &amp; copy to be enclosed</b>
Para B2	The Instruments should be US-FDA or European CE certified with 4 digit notified body no or BIS. Certified	<b>Instrument should be European CE/ EC declaration of conformity along with ISO 13485 or USFDA or BIS approved &amp; copy to be enclosed</b>
<b>Rfx no- 300004002 Sch. No.: 13</b>		<b>Urology Surgical Set</b>
Page 70 para 16	Head light with light source	<b>Head light with light source(300 watt Xenon Dual port light source)</b>
Page 70 para 17	300 watt Xenon Dual port light source	<b>Deleted</b>
para J	The Instruments should be US-FDA or <b>European CE certified with 4 digit notified body no or BIS. Certified</b>	<b>Instrument should be European CE/ EC declaration of conformity along with ISO 13485 or USFDA or BIS approved &amp; copy to be enclosed</b>
<b>Sch. No. 14 - Rfx NO: 300004003 - Laparoscope for Pediatric</b>		
Page 73 Para 3	10MM, 300 , TELESCOPE FORWARD-OBLIQUE TELESCOPE 300 ENLARGED VIEW, DIAMETER 10 MM, LENGTH 30-31 CM, AUTOCLAVABLE, FIBER OPTIC LIGHT TRANSMISSION INCORPORATED	<b>Deleted</b>
Page 73 Para 4	10MM, 00 , TELESCOPE STRAIGHT FORWARD TELESCOPE ENLARGED VIEW, DIAMETER 10 MM, LENGTHLENGTH 29-31 CM, AUTOCLAVABLE, FIBER OPTIC LIGHT TRANSMISSION INCORPORATED	<b>Deleted</b>
Para 7	5.3-3.5 MM TROCAR (FOR 5MM INSTRUMENT) TROCAR WITH PYRAMIDAL TIP, CANNULA WITH LUER-LOCK CONNECTOR FOR INSUFFLATION , LENGTH 8.5-10 CM AUTOMATIC VALVE	<b>Deleted</b>
<b>B</b>	<b>PEDIATRIC LAPAROSCOPE WITH 3.5 MM INSTRUMENTS</b>	
Para 37	TELESCOPE 3.3MM, 30 DEGREE LENGTH 25-30CM ENLARGED VIEW AUTOCLAVEABLE FIBREOPTIC LIGHT TRANSMISSION INCORPORATED TROCAR SIZE 3.9 MM	<b>Deleted</b>
Para 38	3 MM 30 DEGREE TELESCOPE LENGTH 14-18 CM ENLARGED VIEW AUTOCLAVABLE FIBREOPTIC LIGHT TRANSMISSION INCORPORATED	3 MM 30 DEGREE TELESCOPE LENGTH <b>18-25 CM</b> ENLARGED VIEW AUTOCLAVABLE FIBREOPTIC LIGHT TRANSMISSION INCORPORATED
56 i	<b>Co2 Cylinder ( 45kg) : 02 nos</b>	<b>Co2 Cylinder ( 4.5kg) : 02 nos</b>
Para 59	Pediatric Resectoscope- 11 French	Pediatric Resectoscope- 11 Fr.- which will include: Albarraan bridge, Sheath, Operating Loop with cold knife and ball electrode. This should quoted as a set along with any other accessories to complete the set

Tender Page & Para	Existing Para	Read as
	All the instrument set Should be US FDA/ European CE certified with 4 digit notified body No	All the instrument set Should be US FDA/ European CE certified with 4 digit notified body No / <b>BIS certificate</b>
Para 56 J	Unit Should be US FDA/ European CE certified with 4 digit notified body No	Unit should be US FDA/ European CE certified with 4 digit notified body No / <b>BIS certificate</b>
Para 57	Added Para :- Should be US FDA/ European CE certified with 4 digit notified body No	Should be US FDA/ European CE certified with 4 digit notified body No / <b>BIS certificate</b>
	<b>Added Para</b>	<b>A tolerance of +- 10% in all the sizes mentioned for hand instruments will be accepted. All the scopes should be compatible with major branded light source and camera (like Karl Storz, Olympus, wolfe, Ackerman, Fujinon)</b>
<b>RFX NO 3000004004 Sch.15: Cystoscope &amp; Resectoscope</b>		
<b>Para 2</b>	<b>Cystoscope Sheath</b>	<b>Cystoscope Sheath with obturator</b>
<b>Para 2</b>	<b>21-22 FR and 17-18 FR sheath one each with slot for instrument</b>	<b>21-22 FR and 17-18 FR sheath one each.</b>
page 77 Para 6	Toomey glass syringe 100 CC - 1 no.	Toomey glass syringe Min.100 CC - 1 no.
page 77 Para 6	Toomey glass syringe of 100 cc with adaptor to fit with sheath - 1 no.	Toomey glass syringe of <b>min.</b> 100 cc with adaptor to fit with sheath - 1 no.
page 77 Para 14	Video Processor & Light source	Video Processor & Light source with <b>camera head</b>
page 77 Para 14	Electronic magnification up to 1.5X <b>by a touch of scope remote switches/adapters/coupler</b>	Electronic magnification up to 1.5X
page 77 Para 15	15 inches or more LCD/LED HD Monitor of Medical Grade. It should be mountable on trolley.	<b>26 inches</b> or more LCD/LED HD Monitor of Medical Grade. It should be mountable on trolley.
<b>RFX no : 3000004005 Sch.16: Laparoscope Set</b>		
<b>page 78 Para 4 k</b>	Suction/Irrigation Tube ( <b>trumpet</b> ) with tubing distal holes - 2 nos, 5-5.5 x 330-360 mm - 2 nos	Suction/Irrigation Tube with tubing distal holes - 2 nos, 5-5.5 x 330-360 mm - 2 nos
<b>page 79 Para 6 f</b>	The system should have digital zoom and integrated optical zoom with <b>auto focus</b> to enhance the quality of image size & cross speciality standardization of the camera system, regardless of the telescope used.	The system should have digital zoom and integrated optical zoom to enhance the quality of image size & cross speciality standardization of the camera system, regardless of the telescope used.
Page 79 Para 6 m	The Camera should be capable of directly recording full HD quality photos(1920x1080p) and full HD quality videos(1920x1080p) into an internal memory of 300 GB or more / into an external hard drive of 300GB or more. If not, a medical grade HD recorder capable of directly recording full HD quality photos(1920x1080p)and full HD quality videos(1920x1080p) with internal memory of 300GB or more /external hard drive of 300 GB or more must be supplied.	The Camera should be capable of directly recording full HD quality photos(1920x1080p) and full HD quality videos(1920x1080p) into an internal memory of 300 GB or more / into an external hard drive of 300GB or more. If not, a medical grade HD recorder capable of directly recording full HD quality photos(1920x1080p)and full HD quality videos(1920x1080p) with internal memory of 300GB or more /external hard drive of 300 GB or more must be supplied. <b>added para: An external 1 TB harddrive to be provided for storage of data</b>
Page 79 Para 7 d	SDI/HD-SDI	SDI/HD-SDI/ <b>DVI-D</b>
page 79 para 8	CO2 Electronic INSUFFLATOR - 2 no	<b>CO2 Electronic INSUFFLATOR - 1 no</b>
Page 79 Para 9	LIGHT SOURCE (Xenon 300) with TWO Spare Bulbs	<b>LIGHT SOURCE</b>
Page 80 Para 9 a	Xenon cold light fountain with 300 watts xenon lamp	It should be LED equivalent to 300w Xenon or more. (Declaration from Manufacturer to be submitted)
Page 80 Para 9 e	Lamp life 500 hrs or more	<b>Lamp life 10000hrs or more</b>
<b>Page 80 Para</b>	<b>5-6kg cylinder 2 nos</b>	<b>4.5kg or more cylinder 3 nos</b>

Tender Page & Para	Existing Para	Read as
<b>12 a</b>	<b>0-12 kg cylinder 2 nos</b>	
Page 80 Para 13	Dormia Basket-01 set	<b>Deleted</b>
Page 80 Para 13	Fogarty Ballon Catheter	<b>Deleted</b>
<b>Page 80 Para 14</b>	The complete system must be European CE (with 4 digit notified body no.) or USFDA or BIS approved.	The complete system must be European CE (with 4 digit notified body no.) or USFDA or BIS approved for scope, light source, suction irrigation, camera head.
<b>Rfx no : 300004006 Sch.17: Video Endoscopy System</b>		
Page 80 para 1.1	Build in HDTV compatible CCD	Build in HDTV compatible CCD/CMOS
Page 80 para 1.2	Should have digital chromo endoscope such as NBI/S/I Scan/ FICE or equivalent or better technology	Should have digital chromo / <b>real time endoscope</b> such as NBI/S/I Scan/ FICE or equivalent or better technology
Page 80 para 1.5	Should have forward/Auxiliary water jet for mucosal cleaning.	Should have forward/Auxiliary water jet for mucosal cleaning. <b>(internal/ external)</b>
Page 81 Para J	Accessories: (Price to be quoted separately and it should be valid for warranty period)	Accessories: (Price to be quoted separately and it <b>should be valid for 2 years.</b> ) maximum of 10% escalation will be considered from 3rd year onwards. It will be applicable at all the instances wherever mentioned in this item.
Page 81 J	a) Hot Biopsy forceps with alligator cups with and without needle- 3each	Hot Biopsy forceps with alligator cups <b>with / without</b> needle- 3
Page 81	o) Injection Needle 21G- 10 with each scope	o) Injection Needle <b>21-23G</b> - 10 with each scope
Page 81	p)Grasping Forceps Rat Tooth, Rubber Tip -5 Each	p)Grasping Forceps Rat Tooth, -5 Nos.
Page 81 para 2 e	Depth pf Field- 4-100mm	Depth pf Field- 4-100 mm <b>or better</b>
Page 81 para 2 g	Instrument Channel 2.0-2.2mm	Instrument Channel 2.0- <b>2.4mm</b>
Page 81 para 3.1	Build in HDTV compatible CCD	Build in HDTV compatible CCD /CMOS
Page 81 para 3.2	Should have chromo endoscopy such as NBI/S/I Scan/ FICE or equivalent or better technology	Should have chromo/ <b>real time endoscopy</b> such as NBI/S/I Scan/ FICE or equivalent or better technology
Page 81 para 3.3	Inbuilt Feature like Variable/Graduated stiffness, High force transmission & Passive Bending for ease of Insertion.	Inbuilt Feature like Variable/Graduated stiffness / High force transmission & Passive Bending for ease of Insertion.
Page 82 para 3.7 i (8)	8) Injection needle 21G -10 nos	<b>8) Injection needle 21-23G -10 nos</b>
Page 82 para 4.4 b	Direction of View: 5 Deg/10 Deg, backward oblique viewing	<b>Direction of View: 5 Deg-10 Deg, backward oblique viewing</b>
page 83 para 5	Working channel dia: 3.5mm or more	<b>Working channel dia: 3.4mm or more</b>
5	<b>VIDEO PROCESSOR- 1 Nos</b>	
page 83 para 5.1	Should be compatible with Anlog, HD-SDI AND DVI Output for HDTV monitor should be available	Should be compatible with Anlog, HD-SDI / DVI Output for HDTV monitor should be available
Page 83 Para 5.8	Automatic IRIS Control & <b>automatic</b> white balance	Automatic IRIS Control & white balance
Page 83 Para 5.10	<b>Image capability/HD Plus video high Intensity LED of 100W with 25000 hrs., preferably with emergency halogen light/LED for backup.</b>	Image capability/HD Plus video high Intensity LED equivalent to 300W Xenon (declaration from manufacturer should be submitted) / 300 W Xenon ., preferably with emergency halogen light/LED for backup Note: Both Xenon and LED should be covered under warranty
<b>RFX NO 300004007 Sch.18: Fibre Optic Video Bronchoscope Read as:- Video Bronchoscope</b>		

Tender Page & Para	Existing Para	Read as
	The flexible <b>Fiberoptic</b> Bronchoscope should be supplied complete with light source and trolley and minimum 15" LCD Monitor	The flexible Video Bronchoscope should be supplied complete with light source and trolley and minimum 15" LCD Monitor
<b>A 3</b>	Digital end diameter should be 5.2 mm or less	Digital end diameter should be <b>5.5 mm or less</b>
<b>A4</b>	Insertion tube diameter should be 5.2 mm or less	Insertion tube diameter should be <b>5.5 mm or less</b>
Para A 11	<b>Should be European CE with 4 digit notified body number/US FDA approved.</b>	<b>Should be European CE with 4 digit notified body number/US FDA / BIS approved.</b>
para B 3	Digital end diameter should be 2.8 mm or less	Distal end diameter should be <b>3.1 mm or less</b>
page 85 Para B 4	Insertion tube diameter should be 2.8 mm or less	Distal end diameter should be <b>3.1 mm or less</b>
B7	Working length should be 600 mm or more	Working length should be <b>550 mm or more</b>
B 10	Should be European CE with 4 digit notified body number/US FDA approved.	<b>Should be European CE with 4 digit notified body number/US FDA / BIS approved.</b>
<b>Sch. No.: 19 (Rfx No. 3000004008) C-Arm with ERCP</b>		
Page 86 Para 5	3 mA or more in normal fluoroscopy and 8 mA or more in High Level Fluro	3 mA or more in normal fluoroscopy and <b>7.5 mA</b> or more in High Level Fluro
Page 86 Para 7	Should have Digital Spot for high quality single image, 10 mA or more	Should have Digital Spot for high quality single image, <b>8 mA or more.</b>
Para E .F.1	Provision to record multiple images on CD,DVD& USB with embedded DICOM viewer.	Provision to record multiple images on CD,DVD& USB ( <b>internal/ external</b> ) with embedded DICOM viewer.
Page 87 Para viii.	<b>Height of table top : 850-1050 mm</b>	<b>Height of table top : 850-1035 mm</b>
<b>Sl. No. 21 – Anesthesia Work Station (Rfx. No. 3000004010)</b>		
page 90 Para h	Inspiratory pause : 0 – 50% of Ti	Inspiratory pause: <b>5</b> – 50% of Ti
page 90 Para 13	<b>Modular Monitor (Module for ECG, SpO2, NIBP, Dual Temp, Resp (Combined or separate module)</b>	<b>Monitor (ECG, SpO2, NIBP, Dual Temp, Resp )</b>
<b>Sl.No</b>	<b>BOQ</b>	
Page 91 Para 6	Module for ECG, SpO2, NIBP, Dual Temp, Resp (Combined or separate)	ECG, SpO2, NIBP, Dual Temp, Resp (Combined or separate or integrated)
Page 91 Para 7	Module for 2IBP if separate	2IBP if separate
Page 91 Para 8	Module for BIS/Entropy/Anaesthesia depth monitoring	BIS/Entropy/Anaesthesia depth monitoring
page 91 Para 11	Vaporizer for Isoflourance	Deleted
page 91 Para 12	Vaporizer for Sevoflourance.	Deleted
Added Para 8 .e	As discussed in prebid meeting	It should have CO2 bypass feature.
Added Para 13.j	As discussed in prebid meeting	Monitor should have ESU and Defib protection feature
<b>Sl. No. 22 – ICU monitor (Rfx. No. 3000004011)</b>		
Page 91 para 5	Facility to monitor ECG, SpO2, NIBP, 2 IBP, Respiration, temperature and EtCO2. ( Price of EtCO2 Module should be quoted seperately).	Facility to monitor ECG, SpO2 ( <b>Nellcor/Masimo/Equivalent Low perfusion and motion tolerant technology for which clinical research paper published in peer reviewed journals to be submitted</b> ), NIBP, 2 IBP, Respiration, temperature and EtCO2. ( Price of EtCO2 Module should be quoted seperately).
<b>3000004012 Sch.23 Defibrillator</b>		
<b>Page 93 para 5.1</b>	The unit shall be capable of operating continuously in ambient temperature of 10 -40 C and relative humidity of 15-90%	The unit shall be capable of operating continuously —_ in ambient temperature of 10 - <b>40 deg</b> C and relative humidity of 15-90%

Tender Page & Para	Existing Para	Read as
		It is just a typographically error, hence, should be corrected accordingly.
<b>Page 93 para 5.2</b>	The unit shall be capable of being stored continuously in ambient temperature of 0 -500 C and relative humidity of 15-90%	The unit shall be capable of being stored continuously in ambient temperature of 0 - <b>50</b> C and relative humidity of 15-90%
<b>Sch. No. 25 Rfx No. 300004014 ICU Ventilator</b>		
Para 13	Should have battery backup atleast for 1 hour.	Should have battery backup atleast for 1 hour <b>for ventilator only.</b>
<b>Added Para</b>		<b>It should have reusable flow sensor (covered under warranty)</b>
<b>Sch 27 RFX No. 300004016 Name of the Item: ABG machine</b>		
<b>5</b>	Fast analysis time – less than 120 sec.	Fast analysis time – less than <b>180</b> sec
<b>300004017 Sch. No: 28 PATIENT CONTROLLED ANALGESIA PUMP</b>		
Page 99 para 1	Must provide various modes like Bolus, Bolus + set rate; Bolus + Time limited rate; Bolus + Triggered rate	Must provide various modes like Bolus, Bolus + set rate; Bolus + Time limited rate; Bolus + Triggered rate <b>or Equivalent of all the modes mentioned above.</b>
Page 99 para 4	Automatic detection of syringe size & proper syringe fixing. Must provide alarm for wrong loading of syringe ( <b>flanges out of slot ; disengaged plunger etc.</b> )	Automatic detection of syringe size & proper syringe fixing. Must provide alarm for wrong loading of syringe.
<b>Sch. 29 RFX No. 300004018 Volumetric Infusion Pump</b>		
<b>Page 100 para 3.1</b>	Battery back-up operating time 4 hours.	Battery back-up operating time <b>3 hours.</b>
<b>Para 3.9</b>	Pump Database: Events of 24 hours with real time.	Pump Database: Events of 24 hours with real time/ <b>minimum 350 database</b>
<b>Page 100 para 3.3</b>	Pole clamp Multi-function mounting clamp	<b>Should be supplied with pole mounting clamp</b>
	<b>Added Para</b>	<b>It should have occlusion and air inline alarm</b>
<b>RFX No. 300004019 Sch.30 Syringe Infusion Pump</b>		
<b>Page 101 para 4</b>	Flow rate programmable from 0.1 to 1000 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.	Flow rate programmable from 0.1 to <b>999</b> ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.
<b>Page 101 para 5</b>	Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered/programmable bolus should be available	Bolus rate should be programmable to 40 to <b>999</b> ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered/programmable bolus should be available
<b>Sch 31 RFX No. 300004020 DVT Pump</b>		
<b>Page 101 para 1</b>	Provides graduated, sequential compression and rapid impulse inflation to calf, foot & thigh.	<b>Provides graduated, sequential compression to calf, foot &amp; thigh.</b>
<b>Page 102 para 5</b>	<b>Should deliver constant pre-set pressure ranges – Distal 40 - 130 mm Hg</b>	<b>Should deliver constant pre-set pressure ranges – Distal 50 - 130 mm Hg</b>
	<b>BOQ</b>	
Page 102 para 2	Cuffs of universal size: Calf, thigh , foot (5 nos each)	Cuffs of universal size: Calf, thigh , foot ( <b>50 nos each</b> ) <b>Note: the standard initial supply will be 5 nos. each.</b> <b>Bidder has to quote unit rate</b>
<b>300004021 Sch.32 Patient Warming System</b>		
Para 2	Should have air flow setting for the air flow 30-50cfm for adult and infant patient in same machine	Should have air flow setting for the air flow 30-50cfm for adult and <b>pediatric</b> patient in same machine
<b>300004022 Sch. : 33 Blood &amp; Fluid Warmer</b>		
Page 102 para 1	Should be able to warm fluid /blood at a temperature range of 37-41 deg C.	Should be able to warm fluid /blood at a temperature <b>between</b> of 37-41 deg C.
<b>300004023 Sch. : 33 CPAP-BIPAP Machine</b>		
	Clarified as : Sch. <b>34</b> CPAP-BIPAP Machine	

Tender Page & Para	Existing Para	Read as
<b>Rfx no- 3000004024 Sch. No.: 35 General Instrumentation set for fracture reduction</b>		
page 103 para 6	The part number and name of manufacturer should be engraved on the each instrument	The part number and name of manufacturer should be engraved / <b>laser marked on the each instrument(Should be covered in warranty and should be replaced)</b>
<b>Rfx no- 3000004027 Sch. No.: 38 Interlock nailing sets</b>		
page 109 para 5	The part number and name of manufacturer should be engraved on the each instrument	The part number and name of manufacturer should be engraved / <b>laser marked on the each instrument(Should be covered in warranty and should be changed)</b>
<b>RFX No. 3000004028 Item No. 39 Fracture Reduction OT Table</b>		
page 110 para 3	<b>Should have provision for Eccentric Position.</b>	Should have provision for Eccentric/ <b>Centric</b> Position.
page 110 para 4	<b>Two foldable and detachable radiolucent traction bars fixed beneath the seat plate with two adjustable pivot joints.</b>	<b>Single</b> /Two foldable and detachable radiolucent traction bars fixed beneath the seat plate with <b>Single</b> / two adjustable pivot joints. With leg Transfer plates.
page 111 para 10 a)	Table Top height range- 70cm – 120cm	Table Top height range- 70cm – 120cm( <b>± 5%</b> ).
page 111 para 10 b)	Trendelenburg/ Reverse Trendeleburg –upto 30 degree	Trendelenburg/ Reverse Trendeleburg – <b>upto 25 degree.</b>
page 111 para 10 d)	<b>Motorised back plate up 80-90 degree and down upto -40 degree</b>	Motorised back plate up <b>70-80</b> degree and down upto -40 degree.
page 111 para 10 g)	Can be operated directly from the mains for all electro hydraulic and Manual override movements	Can be operated directly from the mains for all electro hydraulic and Manual Override/ <b>Battery operted with saporate battery .</b>
Para 21	Hand Traction Kit	<b>Hand Traction with Elbow and axilla support separately</b>
<b>RFX No. 3000004030 Sch.: 41 Pneumatic drill and reamer</b>		
Page 113	ELECTRIC OPERATED DRILL & SAW 1 Electric driven, autoclavable, versatile, forward & reverse mode with oscillating saw handpieces 2 Following are the general guidelines – it should be able to perform orthopaedic procedures of drilling , intramedullary reaming, sawing etc 3 Driving unit:- Includes motor, sturdy stand with wheels 4 Flexible shaft:- Minimum length-2 meters Autoclavable quick connection 5 Hand Piece for Drill:- Cannulated Autoclavable Pistol Type - Speed-1200 to 1500 RPM. - Jacob chuck. - Quick coupling chuck (AO type). - Hudsons chuck. -Light weight Chuck for K-wire. - Forward & Reverse options. 6 Hand Piece for Reamers :- Cannulated Autoclavable Pistol Type - Speed-400 RPM minimum. - Chuck for cannulated Reamers. - Forward & Reverse options. 7 Hand Piece for Saggital Saw:- Autoclavable Pital Type - Easy Attachments of blades (without Instrument) 8. 2 Blades each of different size used routinely in Orthopaedic surgery (Total No, 10) 9 It should be European CE with 4 digit notified body number/BIS/US FDA for the quoted model	<b>Deleted</b>
<b>Item No. 44 (Rfx 3000004033) Arthroscope</b>		
Page 115 para B	Arthroscopy set complete with high definition camera, HD monitor minimum 19" , general instruments shaver system , ACL reconstruction set	Arthroscopy set complete with high definition camera, HD monitor or more minimum <b>26"</b> , general instruments shaver system , ACL reconstruction set arthroscopy pump system



<b>Tender Page &amp; Para</b>	<b>Existing Para</b>	<b>Read as</b>
	arthroscopy pump system .	
Para D 8	Brightness control on console & Camera head	Brightness control on console or <b>User interface tablet</b> & Camera head
Para D 11	Optical zoom, Autofocus & White balance on camera head	Optical zoom, Autofocus/ <b>Manual focus</b> & White balance on camera head
Para D Added Para:-		<b>Added Para:- 13. Should be with integrated recording facility</b>
E	Xenon/LED Light Source 1. Light source xenon 300 watts or equivalent LDE light source.	<b>LED Light Source 1. LED light source equivalent to xenon 300 watts or more.</b>
Page 116 para F	High definition <b>LED monitor 19 or more"</b>	<b>High definition LED monitor 26" or more"</b>
Page 116 para F 1	High Definition monitor, screen minimum 19", resolution 1920 x 1080p.	
Page 116 para G	<b>Arthroscope Set</b>	
Page 116 para G 1	HD telescope 4mm , 30 Deg connect Arthroscope Sheath 5.9mm. Obturator for sheath 5.9mm obturator for sheath HOOK probe .	HD <b>compatible or more</b> telescope 4mm , 30 Deg connect Arthroscope Sheath 5.9mm. Obturator for sheath 5.9mm obturator for sheath HOOK probe .
Page 116 para G 2	HD telescope 4mm , 70 Deg connect Arthroscope Sheath 5.9mm. Obturator for sheath 5.9mm obturator for sheath HOOK probe .	HD <b>compatible or more</b> telescope 4mm , 70 Deg connect Arthroscope Sheath 5.9mm. Obturator for sheath 5.9mm obturator for sheath HOOK probe .
Page 116 para I 1	Tendonstripper-open ended and closed ,all sizes	Tendonstripper-open ended Size 7.5mm and closed 7mm and 5.5mm,
Page 116 para K 1	Pole mount/stand alone console with autoclavable remote control	Pole mount/stand alone console with autoclavable remote control/ <b>foot switch</b>
Paga 116 Para L	High Definition Recording system 1 Should be able to record Real time, Full HD(1920x1080p) digital video 2 Stereo audio Input 3 Disc Capacity of 320GB or more and recording system should be windows XP/ Higher base 4 Touch screen( Minimum 8") Control panel interface 5 Multi session disc recording capability supports file formats for images: Bitmap(BMP), JPEG, JPEG2K 6 Video inputs minimum 1 no. S-video , minimum 1 no. composite ,1 XGA(1024X768) and 1 High - Definition (1280X1024)	<b>Deleted.</b>
		<b>Added para:-"Image and Video recording system with Tablet or Laptop with Latest version software with one TB External storage with all compatible software.</b>
<b>3000004034 Sch. 45 Automatic External Defibrillator (AED)</b>		
page 117 para 4	Should be supplied with long life non-rechargeable battery having capability to deliver atleast 100 shocks without replacing and should have a shelf life of atleast three years	Should be supplied with long life non-rechargeable battery having capability to deliver atleast <b>50 shocks</b> without replacing and should have a shelf life of atleast three years

All other contents of the tender enquiry including terms & conditions and due date of submission remain unaltered.

Note:

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