Amendment No.1

Date: 05.09.2018

Subject: Amendment no. 1 to the Tender Enquiry Document

Ref: (i) Tender Enquiry No.: HITES/PCD/AIIMS-BBSR/02/18-19 dated 16.08.2018

The pre bid meeting of the above referred tender enquiry was held on 29.08.2018. Based on pre-bid discussions following amendments are being incorporated in the tender enquiry document.

Section VII
Technical Specifications

Sch 01: ICU beds - High end (RFx. No. 3000003249)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 46 Para 3	The bed should be mounted on three cylindrical columns allowing use of C-Arm with the bed and ease of clearing.	**Amended As:** The bed should be mounted on two/three cylindrical/Rectangular columns allowing use of C-Arm with the bed and ease of clearing.
2	Pg 47 Para 24	Should have steeples adjustment for the following :- Lateral tilt : 0-25 degrees or better (electrically)	**Amended as:** Lateral tilt : 0-15 degrees or better (electrically)

Sch 02: ICU beds- Low end (RFx. No. 3000003250)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 47 Para 1 & 2	Should have four section x-ray translucent mattress base. Complete mattress base should be x-ray translucent , made of high pressure laminate for x-ray & ease of clearing/ disinfection.	**Amended As:** Para 1: Backrest should be x-ray translucent Para 2: Deleted
2	Pg 47 Para 3	The bed should be mounted on two cylindrical columns allowing use of C-Arm with the bed and ease of clearing .	**Amended As:** The bed should be mounted on two/three cylindrical/Rectangular columns allowing use of C-Arm with the bed and ease of clearing.
3	Pg 47 Para 5	Should have facility of double autoregression function minimum upto 16 cm to reduce the risk of spinal injury and bedsores.	**Amended as:** Should have facility of double autoregression function minimum upto 12 cm to reduce the risk of spinal injury and bedsores.
4	Pg 48 Para 20	Max load bearing capacity : 250 kg minimum.	**Amended as:** Max load bearing capacity : 230 kg minimum
5	Pg 48 Para 19	Should have stepless adjustment for the following	**Tolerance of ±5 % is acceptable**

Sch 03: Cell Saver (RFx. No. 3000003251)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read as**
1	Pg 49 Para 3 & 4	Weight of machine should not be more than 25 kgs 4. Weight of cart should not be more than 18 kgs	**Amended as:** Weight of machine with cart should be within 40-80 kgs
2	page 49,point 7	Centrifuge speed 2050-7500 rpm (adjustable)	**Amended as:** Centrifuge speed 2000-5500 rpm (adjustable)
3	page 49,point 9	Operating frequency 47-63 Hz	**Amended as:** 9. Operating frequency 45-65 Hz
4	page 49,point 15.d	Bowl set (70, 125,225 ml)	**Amended as:** d. Bowl set (50-225 ml) if required

Sch 04: Syringe Pump (RFx. No. 3000003252)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 50	Flow rate range: -0,01-999,9 ml/h in 0,01 ml/h – steps	**Amended as:** Flow rate range: -0,01-999,9 ml/h in 0,01 ml/h – steps
2	Pg 50	Automatic reduction of the syringe specific bolus volume after a pressure alarm at System closure (max.< 0.2 ml)	**Deleted**
3	Pg 50	Reset of infused volume possible without flow interruption	**Amended as:**Reset of VTBI volume possible without flow interruption
4	Pg 50	Bolus rate:- 1-1800 ml/h in 0,01 ml/h –steps	**Amended as:**Bolus rate:- 1-1500 ml/h in 0.1 ml/h –steps
5	pg.50	Integrated Drug Library: -the same drug library can be loaded simultaneously through a single interface in the station with up to 18 infusion pumps in a system with an external hardware -Up to 3000 drugs can be utilized in the pump. -Drugs can be divided in up to 30 categories -Drugs can be divided in up to 15 patient profiles -Update: centralized upload possible	**Amended as:** Integrated Drug Library should be present
6	pg.50	Automatic detection of syringe sizes -2/3 ml, 5ml, 10ml, 20ml, 30ml, 50/60ml	**Amended as:**Automatic detection of syringe sizes 5ml, 10ml, 20ml, 30ml, 50/60ml

7	pg.50	Colour display:240 x 320 pixels with 262k colours Display can be read at an angle of 80 degrees	**Amended as:**Should have min 3" colour display
8	pg.50	European CE certification	**Amended as:**European CE with 4 digit notified body number or US FDA certification
9	pg.50		**Added Para**:Docking station to mount atleast 6 pumps along with charging facility with one cable and mounting clamp to fix it in IV poles hould be supplied - Total Qty 35 nos

Sch 05: Echocardiography machine (High end) (RFx. No. 3000003253)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 52 Para 9	There should be digitally enhanced 8-speaker high fidelity stereo audio.	**Amended as:** There should be digitally enhanced 2-speaker high fidelity stereo audio.
2	Pg 52 Para 29	Storage facility on hard drive should be 5 TB or more.	**Amended as:** Internal storage facility of 1 TB or more and 5TB external HDD should be supplied.
3	Pg 53 Para 34	Should display global LV volume and should provide simultaneous display of 17 regional volume wave forms. This should be offered both OFFLINE as well as online. OFF-LINE workstation (both hardware and software) should be offered.	**Amended as:** Should display global LV volume and should provide simultaneous display of 17 regional Strain/volume wave forms. This should be offered both OFFLINE as well as online. OFFLINE well as online. OFFLINE workstation (both hardware and software) should be offered.
4	Pg 53 Para 45	System should have the following probes: A. Adult and paediatric transthoracic probes – 1each B. Adult and paediatric transesophageal probes – 1 each C. Neonatal probes (TEE) – 1 NOS.	**Amended as:** 1.) Adult and paediatric transthoracic probes – 1 each 2.) Adult 3D TEE Probe - 1 no 3.) Paediatric TEE Probe - 1 no 4.) Vascular probe - 1 no

Sch 06: Fluid Warming Cabinets (OT & ICU) (RFx. No. 3000003254)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 53	10. Doors operated illumination lamp.	**Amended as:** Deleted

Sch 07: Multi para monitor(Low end) with Central Monitoring system (RFx. No. 3000003255)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 54	**<u>Specification of Multipara Patient</u>**	**Amended as:**

	Para 6	**Monitor** Should have 720 hours or more trend & graph table	Should have 120 hours or more trend & graph table
2	Pg 54 Para 7	**Specification of Multipara Patient Monitor** Should have alarm review 200 events or more	Should have alarm review 100 events or more
3	Pg 54 Para 9	**Specification of Multipara Patient Monitor** Should have wave review for more than 2 hours	**Amended as:** Should have full disclosure of waveforms for more than 2 hours thru monitor or thru Central station
4	Pg 54 Para 9	**Specification of Multipara Patient Monitor** Internal battery back-up for more than 2 hrs	**Amended as:** Internal battery back-up for more than 1.5 hrs
5	Pg 54 Para 12	**Specification of Multipara Patient Monitor** Dual IBP (optional)	**Amended as:** Dual IBP standard
6	Pg 54 Para 13	**Specification of Multipara Patient Monitor** Phasin main stream EtCO2(Optional)	**Amended as:** Main stream/Side stream/Microstream EtCO2 standard
7	Pg 54 Para 17	**Specification of Multipara Patient Monitor** CE marked & ISO 13485 Approved.	**Amended as:** European CE with 4 digit notified body number or US FDA Approved.
8	Pg 54 Para 3	**Specification for central station monitor** Patient monitors are when on the wired network shall be configurable to allow receipt of alarms from other networked monitor without having to configure remote monitors or central monitors to send alarms.	**Deleted**
9	Pg 54 Para 5	**Specification for central station monitor** Should have single screen display of minimum 08 patient monitors.	**Amended as:** Should have single screen display of minimum 16 patient monitors.
10	Pg 55 Para 10	**Specification for central station monitor** CNS monitor shall support use of mouse keyboard and barcode scanner when using remotely-accessed applications.	CNS monitor shall support use of mouse, keyboard and barcode scanner (either in monitor or in CNS)and should be HL 7 compliant. Bidder has to coordinate with HIS vendor for interfacing with the HIS system. (Price for HIS connectivity should be quoted seperately)
11	Pg 55 Para 12	**Specification for central station monitor** Should provide the required server based computer system of latest generation with suitable software & laser printer for printing patient information.	**Amended as:** It should be from same manufacturer/Principal company

12		**Other related queries**	24 nos of CNS to be taken for ranking purpose. However order will be placed based on actual requirement

Sch 08: DVT Pump (RFx. No. 3000003256)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 55 Para 6	Clearly visible illuminated LED display shows actual pressure delivered to the limb for easy checking.	**Amended As:** Clearly visible illuminated LCD/LED display shows actual pressure delivered to the limb for easy checking.
2	Pg 55 Para 6	Simple and secure snap-lock connection of garments to the pump prevents accidental disconnection, yet promotes easy set up.	**Amended As:** Simple and secure connection of garments to the pump prevents accidental disconnection, yet promotes easy set up.
3	Pg 55 Para 15	Power requirements: 230v, 50Hz; Battery life time;6-8 hours after charged.	**Amended As:** Power requirements: 230v, 50Hz; Battery life time;4-6 hours after charged.
4	Pg 55 Para 16	Pressure range 30-60 mmHg (±4 mmHg); suggested therapeutic setting 40 mmHg	**Amended as:** Pressure range 30-120 mmHg (±4 mmHg); suggested therapeutic setting 40 mmHg
5	Pg 56 Para 18	Pressure range; Thigh/calf-20, 30, 40, 50, 60mmHg, foot-120, 130, 140mmHg	**Deleted**
6	Pg 56 Para 19	Must have automatic operation button, automatic cuff detecting sensor, automatic pressure controlling system, automatic switching from power to battery when needed, automatic safety control alarm system(cuff kind check, cuff connection check, pressure checking, battery check etc.), self detection test in power on, power supply alarm/pressure detection alarms, low battery alarm etc.	**Amended As:** It should have power supply, low battery and pressure detection alarm and Self check facility
7			**Added para:** It should be based on Graduated sequential compresson method Accessories: (Price should be quoted seperately and should be valid for 2 years) 1. Leg and Thigh cuffs : 15 nos per unit

Sch 09: Portable colour doppler (RFx. No. 3000003257)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**

1		A State of art fully digital, compact portable colour Doppler ultrasound machine (weight<5 kg) is required with following technical features	**Amended as**: A State of art fully digital, compact portable colour Doppler ultrasound machine (weight<7 kg) is required with following technical features
2	Pg 56 Para 9	The system shall process a dynamic range that is at least 165db. The system must display at a maximum depth of 35 cm.	**Amended as:** The system shall process a dynamic range that is at least 165db. The system must display depth of 30 cm or more
3	Pg 56 Para 11	The unit must be compact, portable and lightweight, weighing less than 5 kg.	**Amended as :** The unit must be compact, portable and lightweight, weighing less than 7 kg.
4	Pg 56 Para 13	Flat LCD/TFT monitor of at least 10inches with flicker free image.	**Amended as:** Flat LCD/LED/TFT monitor of at least 12inches with flicker free image.
5	Pg 56 Para 15	The system must have the ability to function by AC/DC or battery power with the same degree of functionally, the battery life (run time) shall be at least 2(two) hours, this need to be demonstrated.	**Amended as:** The system must have the ability to function by AC/DC or battery power with the same degree of functionally, the battery life (run time) shall be at least 1 hour, this need to be demonstrated.
6	Pg 57	**ESSENTIAL REQUIREMENT:** The firm must have minimum number of 100 installations of the same model in India, attach list of installation, and also provide performance certificates.	**As per Qualification criteria**
7		21-5 (+/-1) MHz multi- frequency broadband curved array transducer for general purpose, abdominal, deep nerve access applications.	**Amended as:** 1-5 (+/-1) MHz multi- frequency broadband curved array transducer for general purpose, abdominal, deep nerve access applications.
8			**Added Accessories:** Hockey stick probe - 1 no Compatible ECG cable with Leads - 1 no

Sch 12: Electro Surgical Unit with vessel sealing system (RFx. No. 3000003260)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 59 Para A. 3.	Total device with operating hand-instruments should be European CE & USFDA approved.	**Amended as:** Total device with operating hand-instruments should be European CE with 4 digit notified body number or USFDA approved.
2	Pg 59 Para A. 4.	Return electrode contact quality monitoring (REM) system.	**Amended as:** Return electrode contact quality monitoring system.

3	Pg 59 Para C. 5.	Bipolar coagulation : Low, Medium & MACRO	**Amended as:** Bipolar coagulation : Low, Medium & MACRO or atleast 3 similar modes
4	Pg 59 Para C. 6.	Thermofusion with independent cutting (sealing capacity upto7 mm diameter vessels with European CE and USFDA Approved)	**Amended as:** Thermofusion with independent cutting (sealing capacity upto7 mm diameter vessels with European CE with 4 digit notified body number or USFDA Approved)
5	Pg 59 Para D. 2.	Footswitch (UNIPOLAR, BIPOLAR, VESSEL SEALER) – 1 EACH	Footswitch for UNIPOLAR, BIPOLAR, VESSEL SEALER functions – 1 each or combined footswitch
6	Pg 59 Para D. 3.	Bipolar active (LAP/ OPEN)	**Deleted**
7	Pg 59 Para D. 4.	Monopolar active (LAP/ OPEN)	**Deleted**
8	Pg 59 Para D. 5.	Saline bipolar active (MIS UNDER WATER)	**Deleted**
9		B. Accessories : 1. Conventional monopole TURP (compatible reusable cable 2 nos), bipolar saline TURP(compatible reusable cable 2 nos) 2. Laparoscopic and open surgery-monopole reusable accessories (hook 1 no., spatula 1no., ESU pencil 2 nos and compatible cables 1no.) 3. Laparoscopic and open surgery-bipolar accessories (Bipolar open forceps 1no., lap bipolar cables 10nos). 4. Open vessel sealing and cutting devices (small jaw-5 nos, curved medium jaw 1no. and curved large jaw 1no.) 5. Laparoscopic vessel sealing and cutting devices (Maryland & straight tip 5mm & 10 mm as well)-5nos each. 6. Return electrode contact quality monitoring system i.e disposable adult patient plate-1 BOX and reusable patient plate. 2nos	**For Urology/Pediatric Surgery (2 nos Machine)** **Accessory -** 1.Conventional monopole TURP (compatible reusable and sterilizable cable 2 nos), bipolar saline TURP(compatible reusable sterilizable cable 2 nos) **For Surgery/OBS/GI Surgery/Onco Surgery (8 nos Machine)** 1. Reusable cable for connecting to standard mono polar and bipolar laparoscopic instruments - 2nos 2. Resuable dedicated instruments for open and laparoscopic for vessel sealing use (Life of minimum 50 caes) - 2 nos each OR Disposable - 20 nos each **For Neuro Surgery/ENT/Burn & Plastic/CTVS etc (4 nos Machine)** 1.Bipolar forceps (non stick) with cable, straight (small ((120-150mm) , and Bayonet (large(180-220mm with 0.1-1mm tip) - 10 nos each **For all the 14 machines:** 1.Return electrode contact quality monitoring system i.e disposable adult patient plate-10 and reusable patient plate. 2nos 2.ESU pencil with compatible cables-2no.(reusable)

Sch 13: Electro-Hydraulic OT table (RFx. No. 3000003261)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 60 Para I.	**General specifications:** Multipurpose Electro Mechanical/Electro Hydraulic with manual/electric override mobile table with divided leg section suitable for all major surgical procedures, complete with 5cm or more foam mattress and corded handset.	General specifications: Multipurpose Electro Hydraulic with manual/electric override mobile table with divided leg section suitable for all major surgical procedures, complete with 5cm or more foam mattress and corded handset.
2	Pg 60 Para I. 4	100% kidney bridge position should be obtained without moving the patient, through remote control by using extension / break function.	**Amended as:** 100% kidney bridge position (Motorized) should be obtained without moving the patient, through remote control by using extension / break/flexion function.
3	Pg 60 Para I. 7	Mattress should be of high quality that spans table top break for improved patient support. Its depth should be 50 mm or more. Mattress must be latex free.	**Amended as:** Mattress should be of high quality that spans table top break for improved patient support. Its depth should be 50 mm or more. Mattress must be latex free and velcro free
4	Pg 60 Para I. 13	Communication port should be there for diagnosis and servicing purpose. The table should be operated by the following operating elements: corded hand control, electrical override panel/manual override facility.	**Amended as:** The table should be operated by the following operating elements: corded hand control, electrical override panel/manual override facility.
5	Pg 60 Para II. 6	**Electric specification:** Minimum height (without mattress) :500-700 mm	**Amended as:** Electric specification: Minimum height (without mattress) :450-550 mm
6	Pg 60 Para II. 7	**Electric specification:** Maximum height (without mattress) :more than 1050 mm.	**Amended as:** Electric specification: Maximum height (without mattress) :more than 950 mm.
7	Pg 60 Para II. 8	**Electric specification:** Maximum lateral tilt :20-30deg. Or more (both sides)	**Amended as:** Electric specification: Maximum lateral tilt :15deg. Or more (both sides)
8	Pg 61 Para II. 11	**Electric specification:** Head section adjustment : ± 40-45 deg.	**Amended as:** Electric specification: Head section adjustment : ± 25-45 deg.
9	Pg 61 Para II. 12	**Electric specification:** Leg section adjustment :+50 deg. To -90deg.	**Amended as:** Electric specification: Leg section adjustment :+20 deg. To -90deg.
10	Pg 61 Para II. 16	**Electric specification:** Minimum working load capacity :270 kg or more (all positions)	**Amended as:** Electric specification: Minimum working load capacity :250 kg or more (all positions)

11	Pg 61 III.	Technical specification- Accessories	It will be supplied with each table
12	Pg 61 Para IV.	The offered model should be US-FDA or European CE with 4 digit notified body number approved.	**Amended as:** The offered model should be US-FDA or European CE with 4 digit notified body number approved or EC Declaration of conformity along with ISO 13485 from notified body
13	Pg 61 Para V. b. vi.	**Accessories For the following specialties should be quoted separately:-** **Neuro-surgery** Connecting fixture	**Amended as:** Neuro-surgery Connecting fixture/Cross bar for sitting position
14	Pg 61 VI.	All the accessories should be compatible with the operating table and should be from same manufacturer.	**Amended as:** All the accessories should be compatible with the operating table and should be from same manufacturer.(Except Neuro surgery accessory)
15		**Added Para**	Base should be made of SS only
16	Standard Accessory	5. Clamp, rotary -2pc. 6. Clamp, circular – 2pc 8. Arm support, Perspex -2 pc	**Amended as:** 5. Clamp - 4 nos 6. Deleted 8. Arm support -2 pc
17	Neuro Accessory	iv. Doro skull clamp : 1 No.	**Amended as:** iv. Doro/Mayfield/Sugita skull clamp with all standard accessories : 1 set.

Sch 14: Crash Cart trolley (RFx. No. 3000003262)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read AS**
1	Pg 62 Para 4	Clear plastic overlay for top cap	**Amended as : Deleted**
2	Pg 62 Para10	Should have minimum of five drawers with adjustable divides.	**Amended as:** Should have **minimum of four** drawers with adjustable divides.

Sch 15: Ventilator High End ICU (RFx. No. 3000003263)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 62 Para 4. e.	Advanced made like pressure regulated volume control mode and volume control mode and volume support mode.	**Amended as:** Advanced modes like pressure regulated volume control mode and volume support mode. **Should have Advance closed loop weaning protocols.**
2	Pg 62 Para 4. g.	Non-invasive ventilation.	**Amended as: Non-invasive ventilation with leakage compensation in all modes of ventilation.**
3	Pg 62 Para 5. a.	a. Tidal volume: minimum 5 ml or less and maximum of 1500 ml or more in volume control.	**Amended as:** a. Tidal volume: minimum 5 ml or less and maximum of 1500 ml or more in volume control. Proximal Sensor(1 No.) with necessary hardware & software required in the machine as standard.

4	Pg 63 Para 5. i.	Inspiratory and expiratory flow and pressure Trigger sensitivity	Amended as: Inspiratory and expiratory flow and/or pressure Trigger sensitivity
5	Pg 63 Para 12	Should have battery backup at least for 1 hour.	Amended as: Should have battery backup at least for 30 mins.
6	Pg 63 Para 13	Event log: 1000 alarm history.	Amended as: Event log: **minimum 500** alarm history.

Sch 16: Defibrillator- Cardioverter (RFx. No. 3000003264)			
Sl. No	**Tender Page & Para**	**TENDER SPECIFICATION**	**Read As**
1	Pg 64 Para 2.4	Should work on Manual mode (0-200j or more).	**Amended as:** Should work on Manual mode (**2-200j).**
2	Pg 64 Para 2.8	Facility for trans-cutaneous pacing and trans-venous pacing should be available.	**Amended as:** Facility for trans-cutaneous pacing pacing should be available.
3			**Added para:** AED facility with voice prompts should be available.
4	Pg 64 Para 3.5	Should have minimal charging time for maximum energy with charging indicator (mention the time in the bid –shorter is preferred).	**Amended as:** Should have charging time <7 sec for maximum energy with charging indicator (mention the time in the bid –shorter is preferred).
5	Pg 64 Para 3.9	Should have a battery capable of usage for at least 60 minutes or 30 discharges.	**Amended as:** Should have a battery capable of usage for at least 60 minutes or 90 discharges.
6	Pg 64 Para 3.12	Should be capable of delivering energy in increments of 1-2 joules up to 30j and increments of max. 50j thereafter.(Narrow increments preferable)	**Deleted**
7	Pg 64 Para 4.3	4.1 Defibrillator -01 4.2 Paddles Adult & Paediatric -01 each 4.3 Patient cable -01 4.4 ECG rolls -5 4.5 Disposable pads -5 nos. 4.6 Complete set of ECG leads – 02	**Amended as:** 4.1 Defibrillator -01 4.2 Paddles Adult & Paediatric -01 4.3 Pacing/disposable pads connection cable - 1 no 4.4 ECG rolls -5 4.5 Disposable pads -5 nos. 4.6 Complete set of ECG leads with cable -1 no – 4.7 ETCO2 Adaptor - 2 nos/ETCO2 Sample line - 20 nos 4.8 Reusable SpO2 probe for Adult & Paediatric - 1 each
8			Added Para: Internal Paddle (Adult & Paediatric) - 1 no each (Price should be quoted separately)

All other terms and conditions of the tender enquiry remain unaltered.