

Amendment No. 1**05.02.19****Sub: Amendment to the Bidding Document****Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/40/18-19 dated 09.01.2019**

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

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

Item sl. no. 01
Blood/Fluid Warmer

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 45, point 2	Should be able to maintain or warm the water/blood when at a flow rate of 5L/hr	Should be able to maintain or warm the water/blood when at a flow rate of min 3L/hr
2	Page 45, point 3	Should have digital temperature display of fluid.	Should have digital temperature display at the point of delivery
3	Page 45, point 4	Disposable tubing set for Fluid-200 Nos and for blood – 100 nos. (price to be quoted separately and should be freezed for warranty period)	Disposable tubing set (along with cartridge if applicable) for Fluid-200 Nos and for blood – 100 nos. (price to be quoted separately and should be freezed for warranty period)
4		Added Para:	It should be based on inline dry heating based or triple lumen based.

Item sl. no. 03
Cardiopulmonary Exercising Test Machine

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Point 47, point 5	The system should measure Nutritional parameters.	The system should measure energy expenditure parameters
2	Point 47, point 6	The system should have a bidirectional volume sensor with the following specifications:- (i) Volume: 0 to 10 lit. (ii) Accuracy: 50 ml or 2% (iii) Resolution: 3 ml (iv) Flow: 0 to 15 l/s	The system should have a bidirectional flow sensor with the following specifications:- (i) Volume: 0 to 10 lit. (ii) Accuracy: 50 ml or 2% (iii) Resolution: 3 ml (iv) Flow: 0 to 15 l/s
3	Point 47, point 6	It should have a 12 channel ECG unit integrated into the system.	It should have a 12 channel ECG, SpO2 and NIBP unit integrated into the system.
4	Point 47, point 11	It should be interfaced with a treadmill system (Specifications of treadmill enclosed).	Deleted (as it is Bicycle Ergometer based)
5	Page 47, point B .4	BICYCLE ERGOMETER : Lap Time: 9h 59min 59sec	Deleted

Item sl. no. 04
Difficult Airway Cart

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 51, point 1	Equipments trolley should be wide, high, rides on 4 antistatic dual heels equipped with locking brakes with switch on cover central beam and can be integrated with electrical sub-distributors with minimum 6 sockets with a minimum dimension of 600*1200*730 mm (w*h*d) \pm 5% with modular in nature.	Equipments trolley should be wide, high, rides on 4 antistatic dual heels equipped with locking brakes with switch on cover central beam and can be integrated with electrical sub-distributors with minimum 6 sockets with a minimum dimension of 600*1200*730 mm (w*h*d) \pm 10% with modular in nature.

Item sl. no. 05
DVT Machine / Pump

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 50, point 1	Provides graduated, sequential compression and rapid impulse inflation to calf, foot & thigh.	Provides graduated, sequential compression to calf, foot & thigh.
2	Page 50, point 5	Proximal 30-50 mmHg.	Proximal 25 -50 mmHg.

Item sl. no. 06
ECG Machine

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 51, point 5	Sensitivity of 2.5, 5, 10, 20 mm /mV. It should also have AGC (Automatic Gain Control)	Sensitivity of 2.5, 5, 10, 20 mm /mV.
2	Page 51, point 11	Machine should be connected to computer through USB or equivalent port for data transfer. Necessary hardware and software to be provided if required.	Machine should be connected to HIS through suitable interface

Item sl. no. 07
Syringe Infusion Pump with Docking Station

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 52, point 7	Key board locking system for patient safety	Locking system for patient safety
2	Page 52, point 9	Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg. or atleast 3 selectable levels	Selectable Occlusion pressure trigger levels selectable from 200/300/500/900 mmHg. or atleast 4 selectable levels with pressure display.
3	Page 52, point 16	It should be HL 7 compliant	Pump should be HL 7 compliant.

Item sl. no. 08
High Frequency Ventilator

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 53, Heading	Jet / High Frequency Ventilator	Item renamed as: High Frequency Ventilator
2	Page 53, point 8	Digital display : Should have integrated high resolution Colour LCD/TFT screen minimum 10” or more color display with touch screen facility for real-time display of scalar (Pressure, Flow and Volume against time) and loop (Pressure-volume, volume flow and pressure-flow). Graphic display of at least 3 waveforms together out of choice of flow, volume and pressure versus time with a facility to freeze these waveforms. Facility for loops together with a facility to freeze the same.	Digital display : Should have integrated high resolution Colour LCD/TFT screen minimum 10” or more color display with touch screen facility for real-time display of scalar (Pressure, Flow and Volume against time) and loop (Pressure-volume, volume flow). Graphic display of at least 3 waveforms together out of choice of flow, volume and pressure versus time with a facility to freeze these waveforms. Facility for loops together with a facility to freeze the same.
3	Page 53, point 9	Digital display of FiO ₂ , peak pressure, mean airway pressure, CPAP/PEEP, Expiratory tidal volume, expiratory minute volume, total frequency, spontaneous frequency, lung function monitoring including compliance, resistance, lung distention coefficient, (C ₂₀ /C), Lung time constant, Rate volume ratio etc.	Digital display of FiO ₂ , peak pressure, mean airway pressure, CPAP/PEEP, Expiratory tidal volume, expiratory minute volume, total frequency, spontaneous frequency, lung function monitoring including compliance, resistance, lung distention coefficient, (C ₂₀ /C), Lung time constant etc.
4	page 53, point 11	Integrated monitoring: Integrated volume and pressure monitoring i.e. monitoring of PEEP P _{max} , P _{mean} and VT, VT_{spont} , MV and MVleak. The volume monitoring should have NTPD to BTPS correction	Integrated monitoring: Integrated volume and pressure monitoring i.e. monitoring of PEEP P _{max} , P _{mean} and VT, VT_{ex} , MV and MVleak. The volume monitoring should have NTPD or BTPS correction

5	Page 53, point 12	Monitoring of I:E, frequency and Spontaneous Frequency	Monitoring of I:E / Inspiratory time in % , frequency and Spontaneous Frequency
6	page 53, point 13	Audiovisual alarms with advisory on-screen message: MV high/Low, Apnea, tube obstruction, FiO2 high/low, high PIP, low PEEP/CPAP, CO2 alarm , fail to cycle, gas supply low, power failure, ventilator inoperative, alarm log book ,Tables and Trends of 24hrs should be available.	Audiovisual alarms with advisory on-screen message: MV high/Low, Apnea, tube obstruction, FiO2 high/low, high PIP, low PEEP/CPAP, fail to cycle, gas supply low, power failure, ventilator inoperative, alarm log book ,Tables and Trends of 24hrs should be available.
7	Page 54, point 15 a	It should be possible to give leakage adapted inspiratory trigger during pressure support to spontaneously breathing patients with a set volume guarantee.	It should be possible to give leakage adapted/ compensated inspiratory trigger during pressure support to spontaneously breathing patients with a set volume guarantee.
8	page 54, point 22	Should be supplied with inline nebulizer which should have capability to deliver particle size of < 3 micron and to be used in both off and on line with ventilator.	Should be supplied with inline/offline nebulizer which should have capability to deliver particle size of < 3 micron and to be used in both off and on line with ventilator.
9	page 54, point 23 a	Trigger Flow/ volume, leak adapted	Trigger Flow/ volume, leak adapted/ compensated
10	Page 54, point 24 e	2 conventional reusable ventilation circuit.	2 reusable dual limb type heated wire circuit for conventional & HFO ventilation
11	Page 55, point 24 g	1 circuit for reusable HF ventilation	Deleted
12	Page 55, point 24 h	Bacterial filters	Bacterial filters (Disposable) - 50 nos
13	Page 55, point 24 i	Flow sensors (5 nos with each ventilator)	Flow sensors (2 nos reusable or 10 nos disposable with each ventilator)
14	page55, point 24 m	Heater wire (3 each)	Deleted
15	Page 55, BOQ 9	Flow sensors	Flow sensors (2 nos reusable or 10 nos disposable with each ventilator)

Item sl. no. 09
Patient Warming System

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 56, point 2	Should consist of active warming arm-cum-shoulder section, pair of leg segments and abdominal segment of cover the entire body.	Should consist of active warming arm-cum-shoulder section, leg segments and abdominal segment of cover the entire body.
2	Page 56, point 8	Should offer precise digital temperature control with selectable temperature range of 37 to 40°C in steps of 0.1°C	Should offer precise digital temperature control with selectable temperature range of 37 to 39°C in steps of 0.1-0.5°C
3	Page 56, point 10	Should also have on screen graphical/digital display of patient body temperature for the entire duration of surgery	Should also have on screen graphical/digital display of blanket temperature for the entire duration of surgery
4		Added Para	Replaceable covers - 2 nos. for each blanket

Item sl. no. 11
Volumetric Pump

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 58, point 3.7	Flow rate range (primary) 0.1 to 99.9 ml/hr. (0.1 ml increments) and 1 to 800 ml/hr. (1ml increments.)	Flow rate range (primary) 1 to 99.9 ml/hr. (0.1 ml increments) and 1 to 800 ml/hr. (1ml increments.)
2	Page 58, point 3.5	Nurse call output alarm , time and date settings	Time and date settings
3	Page 58, point 3.11	Pump Database: events of 24 hours with real time	Pump Database: events of 24 hours with real time/ min 1000 events
4	Page 58, point 3.12	It should be HL 7 compliant and it should be able to connect with the charting system. Necessary protocol/codes required for this should be provided.	It should be HL 7 compliant

5	Page 58, point 4.1	Compatible with any standard (PVC) infusion sets available in local Indian market."	Compatible with any standard (PVC) volumetric infusion sets available in local Indian market.
---	-----------------------	---	--

Item sl. no. 12
Patient Transfer System

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 60, point 6	The system should have wheel breaks on atleast 2 wheels and there should be directional lever, to enable movement of the system form one area in hospital to another area as required.	The system should have wheel breaks on atleast 2 wheels and there should be directional lever/ Push Handle , to enable movement of the system form one area in hospital to another area as required.

Item sl. no. 13
Volumetric Pump

Sl. No	Ref. to the Bidding Document	Existing specification of the bidding documents	Amended as:
1	Page 61, point 1	Frame work made from SS steel material.	Frame work made from SS steel/ AL alloy material .
2	Page 61, point 2	Flat top of SS & at least 6 inch deep removable bucket at the bottom	Flat top of SS & at least 6 inch deep removable bucket at the side bottom .
3	Page 61, point 4	The front of the each drawer should be half covered on which removable medicine label can be pasted and upper half open to see the contents inside.	The front of the each drawer should be half covered by transparent material on which removable medicine label can be pasted and upper half open to see the contents inside.
4	Page 61, Point 5	Mounted on four 100 mm castors (2 with brakes). Approx. Size: 750(L)x 450(W)x 850(H)mm	Mounted on four 100-120 mm castors (2 with brakes). Approx. Size: 750(L)x 450(W)x 850(H)mm

SECTION - VIII

QUALIFICATION CRITERIA

The following changes are incorporated in case of item at sl. no. 12 only (i.e. for Patient Transfer System bearing RFx no. 3000003748). However, for all other items the existing criteria will prevail.

Existing Criteria:

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.

Amended as:

The bidder should have supplied and installed similar equipment meeting major parameters of technical specification during last Five years at least 01 (one) number from the date of Bid opening.

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