

Amendment-VI**Ref.: IFB No. HSCC/SJH/Medical Equipment/2015 Dated 10.04.2015**

Sub.: Procurement of Medical Equipment for New Emergency Block & Super-Specialty Block at Safderjung Hospital, New Delhi.

To be read as:**ITEM NO. 7: VOLUMETRIC INFUSION PUMP**

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point e(ii) Adjustable Occlusion level 100 ~ 900 mmHg in increment of 50 mm Hg.	Occlusion level 100 ~ 900 mmHg
2	Point e(iv) Air bubble detector (adjustable sensitivity)	Air bubble detector
3	Point e(vii) Protection against free flow. Occlusion Check System must be integrated	Protection against free flow.
4	Point f Should have Keep Vein Open(KVO) function on completion with least volume : minimum 3 ml/hour or adjustable.	Should have Keep Vein Open(KVO) function.
5	Point g Should have rechargeable NiMH type of battery having long life of about 5 hours @ 100 ml/hr. or more.	Should have rechargeable battery having long life.
6	Point h Should be light weight not more than 3 Kg	Should be light weight less than 5 Kg
7	Point j Should store history of 750 last dated events	To be deleted
8	Point K Should have variety of infusion modes such as Ramp-up / Ramp down, Sequential, Bolus, secondary etc. with last setting save at power ON.	To be deleted
9	Point I Should be able to perform on variety of good PVC IV Sets.	Compatible will be all standard I.V. Sets

10	Point m Should display the Volume to be infused, Infusion Duration, Infused Volume, Flow Rate, Present Pressure in the IV Set System, Alarm limit selected for Occlusion alarm, Occlusion pre alert by pressure increase indication, Visual Indication of Occlusion upstream or downstream etc.	Should display the Volume to be infused, Infusion Duration, Infused Volume, Flow Rate.
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ITEM NO. 4 : CENTRAL MONITORING STATIONS 5NOS. FOR CONNECTING 68 MODULAR MONITORS FOR ICU OF THE New Emergency Block

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 3.1 Minimum 17 inches multi colored TFT/LCD display touch screen with rotary knob.	Minimum 17 inches & above multi colored TFT/LCD display touch screen/rotary knob.
2	Point 3.7 Facility to monitor and display - ECG, Respiration, NIBP, SpO ₂ , CO ₂ with capnography, Temp. & 2-channel IBP with thermal three channel recorder . upgradable to Cardiac output(optional) & BIS(optional)	Facility to monitor and display - ECG, Respiration, NIBP, SpO ₂ , CO ₂ with capnography, Temp. & 2-channel IBP with thermal three channel recorder.NMT integrated / stand alone.
3.	Point 3.16 The monitors should have monitor-to-monitor overview facility and data transfer over the network	List of accessories enclosed.

	NMT	12 (2 Per ICU)
	Area	ICU – Six
	No of Monitors	68+5 (Central Station)
Modules	ECG	68-1 per monitor
	SpO ₂	68-1 per monitor
	NBIP	68-1 per monitor
	End tidal CO ₂	68-1 per monitor
	Two Temperature	68-1 per monitor
	Two IBP	68-1 per monitor
	Thermal recorder	12 (Per ICU)
Accessories	ECG leads	2 each of 5 leads per monitor & 24 sets of 12 leads (four sets per ICU)
	SpO ₂ Prob complete set	92 adult – 2 per monitor for adult ICU 22 pediatric -2 per monitor for PICU 22 neonatal – per monitor for N ICU
	NIBP cuff complete set	92 adult – 2 per monitor for adult ICU 22 pediatric -2 per monitor for PICU 22 neonatal – per monitor for PICU
	End tidal CO ₂	Adult & Pediatric accessory kit 2 each

		with each monitor Disposables – 50 tubings per monitor
	IBP – Reusable Interface Cable Disposable pressure transducer Disposable dome for IBP	2 per monitor 100 per monitor 100 per monitor
	EEG accessories	2 sets per module
	Two Temperature	Two Rectal/ esophageal & skin probes per monitor (Total 136 rectal/ esophageal & 136 skin probes)
	Minimally invasive cardiac output accessories	5 per module, total 60 sets

ITEM NO. 13 : TECHNICAL SPECIFICATIONS FOR RAPID INFUSION SYSTEM

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 10	Demonstration is a must for the technical expert

ITEM NO. 9 : MULTIPARA MONITOR (RESP., TEMP., PULSE, SPO2) FOR EXAMINATION, RESUSCITATION & WARDS

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 2.1 Monitor should be portable and lightweight and should monitor vital parameters of patients	Monitor should be lightweight and should monitor vital parameters of patients
2	Point 3.1 Portable and Light weight preferably <10kg	To be deleted
3	Point 3.2 Min 15"inch multi color touch screen TFT display with rotatory knob	Mini 15"inch or more multi colour touch screen TFT display
4	Point 3.3 Monitoring parameters: - ECG, respiration, NIBP, SpO2, temperature	Monitoring parameters: - ECG (3 and 5 lead) , respiration, NIBP, SpO2, temperature IBPDual, CO, ETCO ₂ (side stream)should quote price separately
5	Point 3.6 Trends should be automatically stored for at least 120 hours	Trends should be automatically stored for at least 72 hours
6	Point 3.8 Convenient handle for carrying the same	To be deleted`

7	Point 3.10 Should be upgradable to ETCO2 & 2 channel IBP (Optional).	Should be compatible for side stream ETCO ₂ monitor (Should quote price separately with accessories)
8	Point 4.2 Patient cables (5 ECG lead) –01	Patient cables (5 ECG lead) –02 each
9	Point 4.3 Adult, Pediatric & Neonatal Cuff –01 each	Adult, Pediatric & Neonatal Cuff –02 each
10	Point 4.5 Skin Temp Probe –02	Skin Temp Probe –02 and rectal Temp Probe –02
11	Point 4.9	ETCO ₂ monitor with accessories for 25 monitor (resus Area)
12	Point 4.10	CO monitor with accessories for only 5 monitor for 50 patient
13	Point Should be USFDA/ European CE approved	Should be USFDA approved

ITEM NO. 6 : DEFIBRILLATOR-CUM-MONITOR WITH EXTERNAL PACING

Sr. No.	Specification Lines as per Tender	Amended changes
1	Defibrillator should use low energy biphasic waveform for delivering shock energy & must have energy selection from 1-200J as per AHA 2014 guidelines. In AED as well as manual mode.	Defibrillator should use low energy biphasic waveform for delivering shock energy & must have energy selection from 1-200J as per AHA 2010 guidelines. In AED as well as manual mode.
2	Point Should have facility to do ECG monitoring, transcutaneous pacing, defibrillation, synchronized cardioversion with CPR feedback to measure chest compression rate & depth in real time & should also provide on screen on visual feedback	Should have facility to do ECG monitoring, transcutaneous pacing, defibrillation, synchronized cardioversion with CPR feedback to measure chest compression rate & depth in real time & should also provide on screen on visual feedback/metronome
3	Point Reusable CPR feedback sensor/or similar product reused at least on 90 patients – 4nos.	Reusable CPR feedback sensor/or similar product – 5 nos.

ITEM NO. 8 : SYRINGE INFUSION PUMP

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 3.1 Flow rate programmable from 0.1 to 1200 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option	Flow rate programmable from 0.1 to 999 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option
2	Point 3.5 Selectable Occlusion pressure trigger three levels selectable	Occlusion pressure trigger three levels
3	Point 5.2 The unit shall be capable of operating continuously in ambient Temperature of 10-40d relative humidity of 15-90%	The unit shall be capable of operating continuously in ambient Temperature of 10-40C relative humidity of 15-90%
4	Point 5.3 The unit shall be capable of being stored continuously in ambient temperature of 0-50 relative humidity 15-90%	The unit shall be capable of being stored continuously in ambient temperature of 0-50C relative humidity 15-90%

ITEM NO. 12 : SPECIFICATIONS OF AUTOMATED EXTERNAL DEFIBRILLATOR (AED)

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 1 Automated external Defibrillator should be US-FDA certified semi-automated, low energy Biphasic with maximum 200J energy level to deliver shock energy, complying with guidelines of AHA 2014 and must be field upgradable to any future changes.	Automated external Defibrillator should be US-FDA certified semi-automated, low energy Biphasic with maximum 200J energy level to deliver shock energy, complying with guidelines of AHA 2010 and must be upgradable to any future changes without any extra cost
2	Point 3 The unit must provide feedback on CPR in real time with both visual and audible prompts on CPR rate and complying with AHA 2014 guidelines	The unit must provide feedback on CPR in real time with both visual and audible prompts on CPR rate and complying with AHA 2010 guidelines
3	Point 5 Warranty of AED unit should be minimum five years, shelf for defibrillation electrode pad should be minimum five years(if un-used) and stand-by life of disposable	Warranty of AED unit should be minimum five years, shelf life for defibrillation electrode pad should be minimum five years(if un-used) and stand-by life of disposable battery should be five years or minimum

	battery should be five years or minimum 220 shocks	200 shocks
4	Point 6 Bidders must quote for the price of an additional one quantity for 1) adult disposable defibrillation pad and 2) disposable battery set and same will be included in comparative evaluation to arrive at final cost for lowest bid	Bidders must quote for the price of 2 disposable battery set and same will be included in comparative evaluation to arrive at final cost for lowest bid
5	Point 9	Should come with 10 pairs of CPR pad / defibrillator pad/gel sheet and two disposable batteries set per equipment

ITEM NO. 10 : Anesthesia Work Station

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 9	Should have integrated ETCO ₂ Monitors
2	Point 10	Should display flow volume and pressure / volume loop
3	Point 3.5.c Automatic identification and measurement of anesthetic agents, EtCO ₂ , O ₂ and N ₂ O and MAC value. FiO ₂ measurement to be available either on M/C or monitor. It should have a paramagnetic sensor with O ₂ Sensor	Automatic identification and measurement of anesthetic agents, EtCO ₂ , O ₂ and N ₂ O and MAC value of inhaled agent FiO ₂ measurement.
4	Point 3.6.2 Web Browsing feature for browsing near real time waveforms and graphical & numerical trend up to 24hrs remotely through telephone dial in facility.	Web Browsing feature for browsing near real time waveforms and graphical & numerical trend upto 24hrs remotely through telephone dial in facility. Compatible with HIS System of the Hospital.
5	Point 4.7 Vaporiser Isoflurane -01	Vaporiser Isoflurane -01 and vaporiser desflurane 01
6	Point 4.14 Depth of Anesthesia Sensors-50	Depth of Anesthesia Sensors-100 adults and 100 paed
7	Point 4.15 Accessories for Cardiac Output module- 01 set	Accessories for Cardiac Output module- 01 set (only in6monitor)

8	Point 4.18 Disposable Adult & Paediatric circuits- 50 ea.	Disposable Adult & Paediatric circuits- 100 ea.
9	Point 4.19 HME filters.- 50	HME filters.- 100

ITEM NO. 15 : OT Table

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 7.1 Should be FDA/ CE/UL or BIS approved product	Should be USFDA/ Europe/CE/UL or BIS approved product

ITEM NO. 5 : ICU Ventilator

Sr. No.	Specification Lines as per Tender	Amended changes
1	Point 1 Should be touch screen ICU ventilator with inbuilt / external compressor of the same manufacture, should be compact and portable for intra hospital transportation	Should be touch screen ICU ventilator with latest technology
2	Point 1.1	Should have stand alone compressor of same make, price should be quoted separately.
3	Point 1.2 Star In case of external Medical air compressor it should automatically have high peak flow for higher NIV perform deliver accurate tidal volume.	External Medical air compressor it should automatically have high peak flow for higher NIV perform deliver accurate tidal volume
4	Point 1.3 star In case of internal compressor it should have high peak flow for higher NIV performance and to deliver accurate tidal volume	To be deleted
5	Point 1.5 star Replacement of air filter / HEPA filter should be done without removing the compressor	To be deleted
6	Point 2.E Advanced mode like PRVC/APV/Automode/Autoflow/ASV or equivalent	Advanced mode like PRVC/APV/Automode/Autoflow/ASV, BIAP/Bivent

7	Point 2. G Non- invasive ventilation	Non- invasive ventilation with accessories viz mask and circuit and price quoted separately
8	Point 3.a Tidal volume: minimum 2 ml-1500ml or more in volume control. Tilting facility for flexibility	Tidal volume: minimum 50 ml-1500ml or more in volume control. Tilting facility for flexibility
9	Point F Inspiratory Plaetuupto 60% of insporatory time	Insporatory time
10	Point 6 F RSBI (Rapid Shallow Breathing Index)	To be deleted
11	Point 6 H Automatic tube compensation	E.T. leak compensation
12	Point 7 Ventilator should have synchronized in built /ultrasound nebulizer. Should give >3 micron	Ventilator should have synchronized in built ultrasound nebulizer should give less than or equal to 3 micron particle size
13	Point 9 Ventilator should be upgradable EtCO2 and SpO2	Ventilator should have EtCO2
14	Point 12 Event log:1000 Alram History	Event log: Alram History
15	Point 17 Should provide ET-tube leak compensation	To be deleted

ITEM NO. 16 : Sternal Saw (Electrically Operated)

ITEM NO. 11 : Patient Warmer System

ITEM NO. 14 : Mobile LED Light

Sr. No.	Specification Lines as per Tender	Amended changes
No Changes		

The Bid submission date for Item No. 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16 is 10.06.2015.

Amendment to be issued will be uploaded on websites www.tenderwizard.com/HSCC & www.hsccltd.com.

All other tender terms and conditions remain unchanged.

**Medical Superintendent
Safderjung Hospital & VMMC,
New Delhi.**