

HSCC I Ltd.

Amendment – I dated 14.07.17

Tender Enquiry No. : HSCC/KCGMC/Medical Equipment/2015-06/14 dated: 30/06/2017

Bidders are requested to note the following technical amendment:

Item no.1 ICU Ventilator

Point No	Technical Specifications	Amended as
3	Should be based on reliable flow measuring technology, preferably proximal flow sensor which ensures the most precise flow and pressure measurements for better patient assessment	Should be based on reliable flow measuring technology, flow sensor which ensures the most precise flow and pressure measurements for better patient assessment
5B	Adjust the pressure support to the lowest possible limit based on the breath to breath analysis of the respiratory rate, tidal volume and EtCo2 in a particular patient with help of Information about patient weight and airway access.	Adjust the pressure support to the lowest possible limit based on the breath to breath analysis of the respiratory rate, tidal volume OR EtCo2 in a particular patient with help of Information about patient weight and airway access.
8	Respiratory rates 4 to 150 BPM or better	Respiratory rates 4 to 80 BPM or better
11	Trigger sensitivity: - Flow 0.1 to 20 l/min or better	Trigger sensitivity: - Flow 1 to 10 l/min or better, Pressure -3 to -10 CmH2O(Optional) or better
14	Inspiratory time (TI): 1 to 12 s	Inspiratory time (TI): 1 to 10 s or better
17	Pressure ramp/rise: 0 to 2000 ms	Pressure ramp/rise: 0 to 2000 ms or better
18	Expiratory trigger sensitivity (ETS) 5 to 80 % of inspiratory peak flow	Expiratory trigger sensitivity (ETS) 10 to 80 % of inspiratory peak flow or better
19	Should have facility of Manual breath, O2 enrichment, Stand-by, screen-lock, apnea backup Ventilation, inspiratory & expiratory hold, screen-shot, suctioning tool, configurable Quick start-Settings, start-up over body height and IBW	Should have facility of Manual breath, O2 enrichment, Stand-by, screen-lock, apnea backup Ventilation, inspiratory & expiratory hold, screen-shot, suctioning tool, configurable Quick start-Settings, start-up over body height or IBW
21	Should have integrated pneumatic nebulizer synchronized with inspiratory cycle	Should have integrated pneumatic / Ultrasonic nebulizer synchronized with inspiratory cycle
23	The machine should have Real-time visualization of the lungs with representations of tidal volume, lung compliance, resistance, Co2 elimination and patient activity	Deleted
31	Battery: Minimum operating time of at least 1 hour or more for both Ventilator and air compressor/turbine	Battery: Minimum operating time of at least 2 hour or more for both Ventilator and air compressor/turbine
32	Should have facility of main stream volumetric capnography and SpO ₂	Should have facility of main stream capnography and SpO ₂
33	The machine should have facility of PV tool software for the assessment lung recruitment and calculating the LIP, UIP so that best PEEP can be calculated for the difficult patients like ARDS/ALI	The machine should have facility for the assessment lung recruitment and calculating the LIP, UIP so that best PEEP can be calculated for the difficult patients like ARDS/ALI

Item no.3 Ultra Sound Machine

Point No	Specifications as per Tender	Amended as
	General Specification Should be European CE and USFDA certified	Should be USFDA certified
1	Requirement Description Typical targeted applications: FAST, FATE, Peripheral Doppler, Ectopic pregnancies, Vascular Access and Fluid tapping and guided procedures, etc.	Requirement Description Typical targeted applications: FAST, FATE, Peripheral Doppler, Vascular Access and Fluid tapping and guided procedures, etc.
1.1	System Ergonomics The system shall be no longer than 165cm-108cm(H) x 55cm(W) x 69cm(L)	Deleted
1.3	The system shall have a large 19" medical grade LED clinical display.	The system shall have a large 19" medical grade LED clinical display or more.
1.8	The System Control panel should be built on a capacitive, 12" touch screen. It should not possess any buttons or controls for germs to hide behind including the absence of traditional keyboard	The System Control panel should be built on a capacitive, 10" or more touch screen. It should not possess any buttons or controls for germs to hide behind including the absence of traditional keyboard
2.B	System Power Requirement Battery back-up should be one hour without an externally powered UPS / Invertors. The battery life (run time) shall be up to 1 hours and 4 days on idle. The time to charge the battery to full capacity shall be 90 min with a battery life up to 3 years The system shall go from the off status to active scanning in 20 seconds to address any emergency or critical care needs fro interventional radiology	Battery back-up should be one hour with / without externally powered UPS / Invertors. The battery life (run time) shall be up to 1 hours and 4 days on idle. The system shall go from the off status to active scanning in 30 seconds or less to address any emergency or critical care needs fro interventional radiology
3.2	System Architecture The system shall have broadband architecture with an operating frequency of at least 1 to 15 MHz	The system shall have broadband architecture with an operating frequency of at least 2 to 12 MHz or better
3.3	The system should have dynamic range of at least 180db	The system should have dynamic range of at least 200db or more
3.6	System Should have advanced needle visualization tool to eliminate the "hidden needle" in steep angle interventional procedures of vascular access, Breast Biopsies, Small parts, MSK and Nerves	System Should have advanced needle visualization tool to eliminate the "hidden needle" in steep angle interventional procedures of vascular access, Small parts, MSK and Nerves
5.2	Image Storage & Archival Data Storage media should be static and above 60GB enough to store over 50,000 images, clips or combination of the same.	Data Storage media should be static and above 500GB or more enough to store over 5,00,000 images, clips or combination of the same.
5.7	The system's storage capacity shall accommodate up to 64GB on a very high highly reliable static memory drive.	The system's storage capacity shall accommodate up to 500GB or more on a very high highly reliable static memory drive.
7.7	Measurement Analysis and Labeling The system shall Have a dedicated obstetrical calculations package.	Deleted
7.12	Predefined Pictograms- Abdomen, Obstetrics, Gynecology, MSK, etc..	Predefined Pictograms- Abdomen, MSK, etc..

11.1	Transducers: The Transducer shall operate at frequencies from a minimum of at least 1.0MHz to a maximum of at least 15.0MHz transducers shall have biopsy guide capability when applicable	Transducers: The Transducer shall operate at frequencies from a minimum of at least 2.0 -12MHz or better. Transducers shall have biopsy guide capability when applicable
11.2	1.0- 5.0 MHz Broadband Phased array adult cardiology transducers with scanning Depth up to 38 cm Applications: 2D TRANS-THORACIC ECHO CARDIOGRAPHY, TCD(TRANS CRANIAL DOPPLER), LUNGH ULTRA SOUND, ORBITAL, ABDOMEN, etc..	1.0- 5.0 MHz (±1) Broadband Phased array adult cardiology transducers with scanning Depth up to 30cm or better Applications: 2D TRANS-THORACIC ECHO CARDIOGRAPHY, TCD(TRANS CRANIAL DOPPLER), LUNGH ULTRA SOUND, ORBITAL, ABDOMEN, STRESS ECHO, NERVE & PLEXUS BLOCKS, CENTRAL LINE PLACEMENT, etc..
12	TRAINING AND EDUCATION: The system should have on board (in-built) training and self teaching tool through 3D animation with audio and visual guidance to facilitate the following:-	The system should have (in-built) training / teaching tool with audio/ visual guidance for mentioned range of procedures
	Demonstrate sono anatomy of different nerves and vascular structure	
	Provide knowledge of access insertion point, angulation of needle and probe placement techniques	
	Ability to scan and practice while simultaneously viewing tutorials	
	Should possess basics of knowledge and ICU, Emergency procedure training visual guides as a self teaching tool	

Item no. 4 Dental Chair Unit

Point No	Technical Specifications	Amended as
a.18	Complete installation of the system including water input and drainage system to be installed	Complete installation of the system including all civil and electric works e.g. water input and drainage system is required. The vendor may inspect the installation site for various civil works to be done
b	Oil free compressor, 1 HP with silicon filter and dryer (Medical Grade)	Oil free compressor(individual compressors for each dental chair), 1 HP with silicon filter and dryer (Medical Grade)

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/ CPPP website for corrigendum /amendments etc. if any, as these will be notified on these portals only. No separate advertisement will published in the news papers in this regard.

s/d
CGM, HSCC India Limited
For and on behalf of DGMER, Panchkula