Amendment no. III Dated 27.08.2018

HSCC/PUR/CNCI/Kolkata/Medical Equipment/04/A dt. 13.07.2018

Procurement of Medical Equipment CNCI 2nd Campus

All bidders are requested to note the following:

Name of Item	Last date & time sale/downloading of Tender document	Last closing/submission date & time for receipt of tender	Date of opening of Techno – Commercial bids.	Earlier date of opening	Amendment Status for opening date
1. Anaesthesia Work Station 2. Portable Ultra sound 3. Pulse Oximeter	06.09.2018, up to 13.00 hrs IST	06.09.2018, 14.00 hrs IST	06.09.2018, 14.30 hrs IST	27.08.2018	Date Extended

Item no 01 Anesthesia Workstation

Tender Specifications	May Please be read as
6. In case of electricity & battery failure, manual ventilation, **gas &** agent delivery should be possible	In case of electricity & battery failure, manual ventilation, oxygen & agent delivery should be possible
7. e) The Anaesthesia workstation should have precise electronic visual flow meter with electronic / mechanical setting as well as digital depiction of individual flow of oxygen, nitrous oxide and compressed air and total flow with an accuracy of **+2.5%** & range of at least 10 litre per minute. It should be capable of delivering minimal flow of 500ml or less.	The Anaesthesia workstation should have precise electronic visual flow meter with electronic / mechanical setting as well as digital depiction of individual flow of oxygen, nitrous oxide and compressed air and total flow with an accuracy of **± 6%** & range of at least 10 litre per minute. It should be capable of delivering minimal flow of 500ml or less.
7. i) Anaesthesia machine should have auxiliary common gas outlet **at eye level** and compatible with open circuit if needed	Anaesthesia machine should have auxiliary common gas outlet and compatible with open circuit if needed.
8. a) The Anaesthesia workstation should have precise electronic visual flow meter with electronic / mechanical setting, digital depiction of individual flow of oxygen, nitrous oxide and compressed air and total flow with an accuracy of **+2.5%** & range of at least 10 litre per minute. It should be capable of delivering minimal flow, at least 500ml.	Same as point no. 7(e)
9. d) Vaporizer should have delivery range **of 0 to 6** volume percent	Vaporizer should have delivery range of **0 to 5** volume percent.
9. h) Vaporizer should have delivery range of 0 to at least 5 volume percent	Same as 9 (d)
9. m) All sensor connections to the ventilator shall be internal to help prevent disconnection. The system should have autoclavable flow	All sensor connections to the ventilator shall be internal to help prevent disconnection. The system should have autoclaveable and

sensors at both inspiratory and expiratory end.	reusable(not disposable) flow sensors at both inspiratory and expiratory end.
10. d) The work station should be supplied with at least two sets of closed circuit, system for adult & paediatric patients each	d. The work station should be supplied with at least two sets of closed circuit, system as following: i) Adult reusable circuit silicon & autoclavable-2 sets ii) Paediatric reusable circuit silicon & autoclavable-1 sets iii) Adult disposable circuit- 5 sets each iv) Paediatric disposable circuit- 2 sets each
10. e. Work station should be supplied with at least ten sets of Bain's circuit, five sets of Ayre's T piece with Jackson Rees modification with face masks of all sizes(size1- size 4)	e. Work station should be supplied with at least 2 sets of Bain's circuit. 2 sets of Ayre's T piece with Jackson Rees modification Resuable face masks of all sizes (size1- size 4)-1 set
12. e. Integrated monitor for electronic monitoring & display: Expiratory tidal volume, Expiratory minute volume, PEEP, peak, mean & plateau airway pressure, frequency, waveform display for airway pressure,flow,CO2 & inspired and expired values of all gases and agents(with auto identification) as well as MAC value.O2 measurement should be paramagnetic.	Integrated monitor for electronic monitoring & display: Expiratory tidal volume, Expiratory Minute volume, PEEP, peak, mean & Plateau airway pressure, frequency, waveform display for airway pressure, flow, Co2 & Inspired and expired values of all gases and agents(with auto identification) as well MAC value. O2 measurement should be paramagnetic. The CO2 measurement should be side stream. The following accessories should supplied with the same. 1. Sample line- 50 nos. 2. Water trap- 20 nos.
14. The system should have screen size minimum 15 inches or more with 8 channels. It should be modular for easy upgradation, high resolution colour TFT & CD display, should be capable of monitoring the following parameters. Touch screen facility should be there.	The **patient monitoring** system should have screen size minimum 15 inches or more with 8 channels. It should be modular for easy upgradation, high resolution colour TFT & CD display, should be capable of monitoring the following parameters. Touch screen facility should be there.
14. a) ECG: leads 3 to 5, provision of 12 lead ECG along with printout facility, protection from interference of electrosurgical apparatus, waveform, ECG or SpO2 selectable, arrhythmia detection, heart rate detection from ECG/ pulse auto change. Two lead set with two trunk cables to be provided with each monitor.	ECG: leads 3 to 5, provision to upgrade to 12 lead ECG along with printout facility, protection from interference of electrosurgical apparatus, waveform, ECG or SpO2 selectable, arrhythmia detection, heart rate detection from ECG/ pulse auto change. Two lead set with two trunk cables to be provided with each monitor.
14. f) If the item is available in airway monitor, no need in patient monitor.	**Deleted**
The monitor should have the capability to measure & display QT/QTc	The **patient** monitor should have the capability to measure & display QT/QTc
15. G) Certification of machine, ventilator and airway monitor should be from US FDA. Patient monitor and all modules should be	Anaesthesia workstation should be USFDA/ European CE with four digit number approved.

US FDA approved /European CE with four digit notified body no.	
14. c) Three soft type adult SpO2 probes and two soft type paediatric SpO2 probes to be provided with each monitor.	**Five soft/clip** type adult SpO2 probes and two **soft/clip** type paediatric SpO2 probes to be provided with each monitor.
14. d) IBP: provision of two simultaneous measurement of IBP. Display waveform & numeric, 50 universal transducer sets to be supplied	IBP: provision of two simultaneous measurement of IBP. Display waveform & numeric, two IBP cable and 50 universal disposable transducer sets to be supplied
14. h) Anaesthesia depth monitoring: should be provided with for BIS/ Entropy (SE, RE)	Anaesthesia depth monitoring: should be provided with for BIS/ Entropy (SE, RE) with 50 electrodes.
14. j) Neuro muscular transmission monitoring with required accessories for 50 patients	Neuro muscular transmission monitoring with required accessories with NMT cable and leads for atleast 100 patients.
Added	Company must produce three installation and three user satisfactory certificate from govt. Hospitals or more than 200 bedded provate hospitals in Kolkata or nearby

Item no. 02- Portable Ultrasound

Tender Specifications	May Please be read as
9. The system should support Convex and Linear probes	The system should support Convex Linear and **cardiac** probes
16. System should have 50 GB or higher capacity internal & external (preferable) HDD	System should have **180 GB** or more internal memory
18. Imaging modes of Real time 2D, Color Doppler, Pulsed wave Doppler and Power (energy) Doppler should be available.	Imaging modes of Real time 2D, Color Doppler, Pulsed wave Doppler and CWD, TVI, TDI and power (energy) Doppler should be available.
19. Controls for 2D mode: Total gain, depth, TCG, dynamic range, acoustic power output.	Controls for 2D mode: Total gain, depth, TCG, dynamic range, acoustic power output **and Auto Optimization**
21. Control for pulsed Doppler: Variable sample volume size from 1 to 5 mm or more, steer, PRF, baseline, gain angle correction, spectral invert, duplex on/off.	Variable sample volume size from 1 to 5 mm or more, steer, PRF, baseline, gain angle correction, spectral invert, duplex on/off **and Auto Optimization**".
25. Facility for storage on CDR should be available.	Facility for storage on **USB** should be available.

All other terms and conditions of the tender enquiry document shall remain unchanged. Prospective bidders are advised to regularly visit HSCC website/ CPP as corrigendum /amendments etc. if any, will be notified on this portal only, no separate advertisement will published in the news papers.

Sr. CGM-I, HSCC (I) Ltd
For & on behalf of Director CNCI, Kolkata