

Amendment no. 03 Dated 24.12.2018

HSCC/PUR/CNCI/Kolkata/Medical Equipment/04/B dt. 05.11.2018

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.Syringe Infusion Pump 2.Volumetric Infusion Pump 3.Pulse Oximeter 4.Patient Warming System 5.ICU ventilator 6.Multipara monitor 7.Paediatric Flexible Video Bronchoscope	10.01.2019, up to 13.00 hrs IST	10.01.2019, 14.00 hrs IST	10.01.2019,14.30 hrs IST	03.01.2018	Date Extended

Item No. 01 SYRINGE INFUSION PUMP Qty - 50 No.s		
Sr.	Tender Technical Specification	May please read as
	Operational Requirements	
1.	The syringe pump should be programmable, user friendly, safe to use and should have comprehensive battery backup and comprehensive alarm system.	No change
	Technical Specification	
1.	Flow rate for 50 ml syringe should be programmable from .1 to 1000ml/hr or more in steps of 0.1ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched off.	No change
2.	Should accept all makes of 5ml,10ml,20ml,50ml &60ml syringes with accuracy should be minimum of +/-2%or better	No change
3.	Manual Bolus rate should be programmable in the range of 40-1000ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered.	No change
4.	Display of drug name and total infused volume with a provision of memorising 50 names or more by the operator	No change
5.	Key board locking system for patient safety.	No change
6.	Should have bright display of drug name, flow rate, battery indicator, infused volume all at a time.	No change
7.	Keep Vein Open(KVO) must be available 1.0ml/hr or set rate if lower than 1.0ml. User should have a choice to disable KVO when required	No change
8.	Selectable Occlusion pressure trigger levels selectable from 300/500/700 mmHg or at least three selectable levels.	No change
9.	Manual pusher with plunger protection guard.	No change
10.	Automatic detection of syringe size and proper fixing .Must provide alarm for wrong loading of	No change

	syringe such as flanges out of slot, disengaged plunger, unsecured barrel etc	
11.	Anti bolus system to reduce pressure on sudden release of obstruction.	No change
12.	Should have comprehensive alarm package including: Occlusion limit exceed alarm, near end of infusion pre-alarm & alarm, volume limit pre-alarm & alarm, KVO rate flow, Low battery pre-alarm & alarm, Occlusion pressure pre alarm & alarm, AC power failure, Drive disengaged & preventive maintenance.	Should have comprehensive alarm package including: Occlusion limit exceed alarm, near end of infusion pre-alarm & alarm, volume limit pre-alarm & alarm, KVO rate flow, Low battery pre-alarm & alarm, Occlusion pressure pre alarm & alarm, AC power failure, Drive disengaged & maintenance alarm.
13.	Should have digital & analog display of occlusion pressure indicator	Should have digital & visual display of occlusion pressure indicator
14.	Should display remaining battery life in hrs & minutes on operating flow rate.	Should display remaining battery life in hrs & minutes (preferable) on operating flow rate.
15.	Should have Universal mounting accessory on both vertical & horizontal stand.	No change
16.	Should have facility of auto dose calculation.	No change
	System Configuration Accessories, Spares & Consumables for each pump	
1.	Syringe infusion pump-01	No change
2.	Mounting device/Docking Station for at least four pumps as per requirement so as to enable to power up to up to 4 pumps with one power cord when mounted on IV pole(price to be quoted separately).	No change
	Environmental factors	
	The unit shall be capable of operating continuously in ambient temp of 10-40 deg C and relative humidity of 15-90%	No change
	Power Supply	
1.	Power input to be 220-240VAC, 50Hz. Power cable should be fitted with Indian plug & adapter.	No change
2.	Should have a rechargeable battery for 2 hr or more back up for about 5ml/hr flow rate with 50 ml syringes. Larger battery life and indication of residual life will be preferred.	No change
3.	Resettable over current breaker shall be fitted for protection	Deleted.
	Standards, Safety and Training	
1.	The product should be FDA approved/European CE certified with four digit number.	No change
2.	Drop Test-Withstands 1 meter drop to any edge, corner or surface.	No change
3.	Should conform to international test protocols on exposure to shock forces and to vibration forces. The standard should be documented.	No change
	Documentation	
	User & service manual in English.	
	List of important spare parts & accessories included in the warranty with their part number & costing	
	Certificate of calibration & inspection from factory.	
	Log book with instruction for daily, weekly, monthly & quarterly maintenance checklist.	
	List of equipments available for providing calibration & routine maintenance support as per manufacturer documentation in service/technical manual.	
	Must submit user list & performance report within last 5 yrs from major hospitals of West Bengal.	

	Service station should be in Kolkata.	
	Compliance report to be submitted in a tabulated & point wise manner clearly mentioning the para/page no. of original catalogue/datasheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.	
	To be added	Technical evaluation will be finalised only after functional demonstration of the offer equipment. The functional demonstration will not be a substitute for technical evaluation of the document submitted along with the bid.

Item No. 03 Pulse Oximeter with Heart Rate		
Sr.	Tender Technical Specification	May please read as
1.	Functional Requirement	
	1. Continuously capable of displaying oxygen saturation in real time using an external probe on skin.	No change
	2. Should have reusable, sterilisable (using medical grade disinfectant) robust probe which can be easily connected & disconnected.	No change
	3. Should operate from main voltage or from internal rechargeable battery.	No change
2.	Technical Characteristics	
	a) SPO2 measurement range at least 20-70 and 70-99%, minimum gradation 1%.	No change
	b) Accuracy of SPO2 better than +_1% for range 20-70 and better than +_3% for range 70-99.	b) Accuracy of SPO2 better than +/-2% for range 40-70 and better than +/-3% for range 70-99.
	c) Pulse rate range at least 30 to 240 bpm, minimum gradation 1 bpm.	No change
	d) Accuracy of pulse rate better than +_5bpm.	No change
	e) Signal strength or quality to be visually displayed.	No change
	f) Audio-visual alarms required high & low SPO2 and pulse rate (operator variable settings), sensor disconnected, sensor failure, low battery.	No change
	g) TFT screen size 5" or more.	No change
	h) Plethysmograph display is mandatory,	No change
	i) Should have minimum 24 hrs trend memory for SPO2 & PR.	No change
	j) Should have easily accessible touch button & dial/touch screen to operate the machine.	No change
	k) Weight should be less than 5 kg. Case is to be hard & splash proof. Display must allow easy viewing in all ambient light levels.	No change
	l) Noise should be <50DbA.	No change
	m) Voltage (value, ac or Dc, monophase or triphase) 220 to 240 V, 50Hz	No change
	n) Internal replaceable rechargeable battery allows operation for at least two hrs in event of power failure. Battery charger to be internal to the system and integral to mains power supply & to charge battery during mains power operation unit.	No change
	o) Power consumption to be 50-100W. Mains supply cable to be at least 3m in length.	No change
3.	Accessories, Spare parts & Consumables	
	Accessories (mandatory, standard, optional):	No change

	i) Reusable probes each for adult, pediatric & infant use, one number each	No change
	ii) Y probes with clips for infant use & forehead spo2 sensor for detection of low saturation level(<70%)/ lex probe with the provision of fixation, one number each for reusable type	No change
4.	Spare parts :	
	Two sets of spare fuses (if non re-settable fuses used)	No change
5.	Environmental consideration:	
	5.1. Capable of operating continuously in ambient temperature of 0-50° C & relative humidity of 15-90 % in ideal circumstances	No change
	5.2. User's care, cleaning, disinfection & sterility: Cleanable with alcohol or chlorine wipes	No change
6.	Standards & safety	
	6.1 Should be USFDA Approved/European CE Certified with 4 digit certification	No change
	6.2 Advanced maintenance task required shall be documented	No change
	6.3 Warranty of 5 years with free servicing (min 5 during warranty)	No change
	6.4 The spare price list of all spares & accessories (including minor) required for maintenance & repair in future after warranty period should be attached	No change
7.	The Operating manual, Service manual, other manuals	
	7.1 The user & maintenance manuals to be supplied in English	No change
	7.2 Certificate of calibration & inspection to be provided Service Centre should be in Kolkata	No change
	7.3 Any recommendation for use & supplementary warning for safety should be declared.	No change
8.	Technical evaluation will be finalised only after functional demonstration of the offer equipment. The functional demonstration will not be a substitute for technical evaluation of the document submitted along with the bid.	No change

Item No. 06 – Multi-para Monitor, Qty - 50 Nos		
SN	Tender Specifications	May please read as
1.	Advanced high end modular patient monitor of screen size 12 inches or more, having integrated non-invasive and invasive measurements and features suitable for paediatric and adult patients.	Advanced high end modular patient monitor of Touch screen and Trim Knob facility (preferable) with screen size 15” or more, having integrated non-invasive and invasive measurements and features suitable for paediatric and adult patients.
2.	Monitor must have the facility to display minimum 6 waveforms or more, along with related numerical parameters on single screen.	Monitor must have the facility to display minimum 8 waveforms or more, along with related numerical parameters on single screen.
3.	Parameters: Monitor must have the facility to monitor ECG, low perfusion motion tolerant SpO2 (with waveform), HR (source: ECG/SpO2 pleth/Auto), NIBP, RR, dual temperature, IBP, CVP.	No Change
4.	Monitor must have facility to display real-time 12 lead ECG with ST-T changes.	No Change
5.	Monitor must have advanced arrhythmia detection and ST analysis as standard feature.	No Change
6.	Monitor must have the time linked review function for both graphic & tabular trends of all parameters for 48 hours. Monitor must have arrhythmia recall facility.	No Change
7.	Monitor must have inbuilt rechargeable battery for minimum one hour operation for both machine & display board.	No Change
8.	Monitors must have printing facility through central stations.	No Change
9.	Monitor must be able to connect to central monitoring station.	No Change
10.	Should be USFDA Approved/European CE Certified with 4 digit certification.	No Change as per office memorandum No. X.11035/379/2015-DFQC(Pt) of Ministry of Health & Family Welfare Dated 20 th February 2018
11.	Each monitor to be supplied with.	Each monitor to be supplied with.
	a) Five lead ECG electrode cable – Two in number with adult & paediatric ECG electrodes.	a) Five lead ECG electrode cable – Two in number with adult & paediatric ECG electrodes.
	b) SpO2 soft probe:	b) SpO2 soft probe:
	· Adult Probe: 5 No.s.	· Adult Probe: 5 No.s.
	· Pediatric Probe: 3 No.s.	· Pediatric Probe: 3 No.s.
	· Neonatal Probe: 3 No.s (Wrap type).	· Neonatal Probe: 3 No.s (Wrap type).
	c) NIBP cuffs for adult & paediatric, large adult, thigh: Five each size.	c) NIBP cuffs for adult & paediatric, large adult, thigh: Five each size.
	d) Temperature probe: One skin and two core probes for each monitor.	d) Temperature probe: One skin and two core probes for each monitor.
		e) IBP connection cable: Four in number
		f) IBP Disposable pressure transducers: 20(Twenty) in number each monitor
12.	Each monitor must be supplied with.	All 50 monitors must be supplied with 25 interchangeable Side-stream CO2 Module with <ul style="list-style-type: none"> • 50 etCO2 sampling line each module • 20 water trap each module Or 25 interchangeable Main-stream CO2 Module with <ul style="list-style-type: none"> • 2 Mainstream sensors each module • 5 adult reusable airway adapter

		<ul style="list-style-type: none"> • 2 infant reusable airway adapter
	a) IBP connection cable: Four in number.	Deleted
	b) IBP Disposable pressure transducers: 20(Twenty) in number each monitor.	Deleted
	c) 50 etCO2 sampling line with 20 water trap each for 25 modules in side-stream type/ 2 mainstream sensors with 5 adult airway adapter & 3 infant airway adapter each for 18 modules	Amended as above
		All 50 monitors must be supplied with <ul style="list-style-type: none"> • 5 interchangeable modules for third IBP
13.	6(Six) Central Nursing Station for every 8-10 beds must be provided for complete supply of total 50 monitors.	No Change
	a) Cabling, switches, hubs for central monitoring network has to be done by bidder in the ITU.	No Change
	b) Each Central Station should be supplied with 21" color LED medical grade display and one 21" slave display and one laserjet printer.	Each Central Station should be supplied with 21" or more color LED medical grade display and one 21" slave display and one laserjet printer.
	c) One Online UPS of 1 hour backup should be supplied with each Central Nursing Station.	No Change
14	25 Interchangeable modules of etCO2 (Mainstream/sidestream) must be provided for complete supply of total 50 monitors & 4 modules for third IBP must be provided for complete supply of total 50 monitors.	Deleted
15	User and service manual must be in English.	No Change
16	Service centre should be in Kolkata.	No Change
17.	Wall mounting bracket with flexible arm to be provided by company.	No Change
18.	Monitor should be 12 inches display with touch screen and Trim knob.	Monitor should be 15 inches display with touch screen and Trim knob (preferable).
19.	Monitors should have capable of future up-gradation through interchangeable modules to monitor and display. <ul style="list-style-type: none"> • 4 channel EEG • Cardiac output (both thermos-dilution, as well as minimally invasive) • Spirometry 	Monitors should have capable of future up-gradation through interchangeable modules to monitor and display. <ul style="list-style-type: none"> • 4 channel EEG • Cardiac output (both thermos-dilution, as well as minimally invasive) • Spirometry • SvO2 ADD ON: Monitor should preferably have a facility for ICU electronic charting and integration with other ICU equipments like ventilator & syringe pumps etc. Integration to be done considering one ventilator, one patient monitor, one rack of syringe pump at bedside.
20.	Monitor should have non-volatile memory; the trend data should remain saved during power-off in the monitor/central station.	No Change
21.	The monitors or central station should have HL7 output for future digital upgradation.	No Change
22.	The monitor should be able to measure and display ECG, Respiration, NIBP, SpO2, Dual IBP, Dual Temperature & EtCO2 simultaneously.	No Change
23.	The monitor and central station should be upgradable in future to HIS, PACS/ DICOM Viewer & Web browsing facility through mobiles/laptop.	No Change
24.	The monitor should have the capability to measure & display QT/QTc.	No Change
25.	Technical evaluation will be finalized only after functional demonstration of the offer equipment. The functional demonstration will not be a substitute for technical evaluation of the document submitted along with the bid.	No Change

	To be added	The manufacturer should preferably have the capability with proven track record to upgrade the monitoring system to integrated paperless e-charting to connect all ICU devices at one point.
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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