Amendment II

HSCC/SJH/MED.Equt./2017/33 Dated: 17.10.2017

Ref: Tender No. HSCC/SJH/Med. Eqpt./2015/33 dt. 18.09.2017

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

Technical Amendment have been received for Item No. 1 OT Table CTVS , Item No. 2 Cardiac Defibrillator and Item No. 3 Cardiac Defibrillator with Internal Paddles.

Regarding Item No. 4, Syringe Infusion Pump technical specification remains unchanged. Therefore it is extended the bid submission date from 17.10.2017 to 24.10.2017 for item no. 1, 2, 3, 4.

Technical amendments are as follows:

Item No. 1 OT Table CTVS

Specification for Operation table for CTVS Surgeries

1. It should be a latest electro hydraulic operating table with five sections table top with thoracic/kidney elevation and having specialized accessories.
2. Column with stainless steel pedestal base should be with four castors and having special attachment with a fifth motorized wheel battery drive 360 deg. rotatable through hand controls to move OT table with patient from OT to recovery bed.
3. Radioulucent table top should have 5 sections and motorized sections for Kidney break/elevation, back/leg enabling preferably different pre-programmed positions like flex/reflex/kidney break position/beach chair position/bariatric lower seat section etc.
4. **Specific table top reconfiguration should be quick and uncomplicated. Should have head rest with gas spring,double articulation type movement range should be +45degree to -45 degree.**
5. It should have all powered motorized movements including Trendelenburg, Anti – Trendelenburg, Lateral tilt, Leg section, Back section, Slide, all must happen with electro hydraulic drives.
6. The table top should be made up of scratch-less X-Ray/ C arm translucent material and should provide full access for C- arm permitting high quality images and should allow easy x ray with cassette holder bracket.
7. **Table and radiolucent table top should be made of stainless steel / aluminum and table top should be scratch resistant.**
8. Should have removable and interchangeable head and leg sections with an auto locking mechanism to suit different functions and orientation identifiable.
9. Should have latest cordless bluetooth /IR hand control for all movements. The LED/LCD screen of the remote should be with backlit for endoscopic procedures and to provide pictorial display of memory programmed table and patient positions for quick adjustments.

10. Should achieve zero level position by pressing single button from the handset.
11. The table should be equipped with both electronic override standby control panel on the column body offering most motorized controls as in the hand controller with manual foot operated backup.
12. The system should have electrical and functional impact collision prevention safety with microprocessor sensors to avoid collisions between the motorized sections and the table or the floor.
13. Mattress polyurethane foam must be moulded, antistatic with no seams and easy to fix Velcro/Pins system to stop slippage.
14. Should have maintenance free batteries which can be charged via a separate charging cable that also serves for direct mains operation, if needed. Should have battery discharge status on handset.
15. Should have safe patient weight load capacity of at least 270kg or more in all positions. The stationary patient weight capacity. Should be 350 kg or more. The literature should support both types of weight capacities for table.
16. The table should have additional foot operated control unit for Trendelenburg/ anti-trendelenburg tilt and height.
17. It should have polished stainless steel base with fully accessible bellows, easily cleanable for disinfections to improve hygiene and working conditions in the O.T.
18. Technical Specification:-+/-5% deviation is allowed
    Trendelenburg / anti – trendelenburg_> +/- 30 deg.
    Lateral tilt : +/- 20 deg.
    Standard leg section up/down : +10 deg. To -90 deg.
    Motorized back: +80 deg./ -40 deg.
    Motorized longitudinal slide 250-400mm on both side leg and head of the patient weight support up to 350 kg.
    Length: 2100-2200mm
    Width across side bars: 520-580mm
    Minimum height: 620-670 mm
    Maximum height: 1100-1150mm
    Head section tilt adjustment: +/-45deg. And slide feature on double articulated.
    Flex/reflex: 220deg./120deg.
    Thoracic /kidney elevator or table break with elevation of minimum 3 inches.
    Power input to be 220-240VAC,50Hz. Fitted with Indian plug.
19. <u>SET of accessories from same source as table:</u>

a. Arm positioning support with radiolucent pad and clamps- one pair
b. Shoulder supports with clamps – one pair
c. Anesthesia traction type clamps- one pair
d. Infusion pole – 1 no
e. Body strap with locking clamps – 2 nos. (one large and one extra large)
f. Raised arm support - one
g. Lateral support type: articulate both vertically and laterally – one pair

h. Leg/thigh support pads with vertical post ball socket type: 1 pair with gel pad pressure management.
i. HEAD Gel pad rings: 2 nos (one each for adult and paediatric use)
j. Set of Gel 3 D pads for supporting – Sacral pad, heels pad (pair) and lateral body positioned gel pad- 1 each

20. Table base should be small compatible with Da Vinci Robotic System.
21. Terms:
    1. The quoted equipment should be having USFDA approval, European CE certification and should confirm to CE & IEC Standards for such category of equipment meeting safely standards as per 93/42 EEC. Should meet IEC 601-2-46 (EN 60601-2-46) safety regulations applicable only to surgical tables.
    2. Original catalogue and literature to be enclosed.

Item no 2

Cardiac Defibrillator with amendments

Description of Function
1. Defibrillator should use low energy biphasic waveform for delivering shock energy & must have energy selection 2-200 j and more as per AHA 2010 & 2015 guidelines in AED as well as manual mode.
2.**Existing As :** Should have facility to do ECG monitoring from 3-5 leads , with screen size>5” **Amended as :** Should have facility to do ECG monitoring from 3-5 leads , with screen size>5”,**colour LCD/TFT screen**
3. Must be capable of monitoring ECG through ECH cables, multiple functions electrode pads & external paddles.
4. Unit should have adult & in built pediatric external paddles & should be able to defibrillator both adult & pediatric patients with charging time of <5 seconds.
5. Facility for increase/ decrease energy selectionon paddles as well as on the unit. Should have ECG print out facility.
6**. Existing As :** Machine should be compact & portable with in-built rechargeable battery for at least 3 hr. of continues ECG monitoring & should be weighing less than 10 kg. With battery & paddles. **Amended as :** Machine should be compact & portable with in-built rechargeable battery for at least **2** hr. of continues ECG monitoring & should be weighing less than 10 kg. With battery & paddles
7. Defibrillator should have facility to upgrade for external pacing Spo2 & Etco2 monitoring parameters.
8. Should have user selectable alarm setting .should work on mains as well as rechargeable battery.
9. Should be supplied with following accessories:
i. 3/5 lead ECG cable – 2 Nos.
ii. External Defibrillator paddles (Ped & adult) – 1 Nos.
iii. Multi- functions defibrillator & monitoring pads- 5 Nos.
10. Should be US FDA approved product approved for use in US.

Item No. 3

TECHNICAL SPECIFICATION FOR DEFIBRILLATOR WITH EXTERNAL AND INTERNAL PADDLES

	Defibrillator with External & Internal Paddles
1	**Description of Function**
1.1	Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.
2.	**Operational Requirements**
2.1	Defibrillator should be Bi-Phasic
2.2	Should monitor ECG and display them properly
2.3	Should print the ECG on thermal papers
2.4	Should work on Manual and Automated external defibrillation (AED) mode. Manual energy selection 200J or more.
2.5	Should be capable of doing synchronized cardio version
2.6	Can be operated from mains as well as battery
2.7	There should be provision to limit internal paddle defibrillation to 50Joules
2.8	Should have external pacing facility preferably with demand mode
3	**Technical Specifications**
3.1	Should be a Low Energy Biphasic defibrillator monitor with recorder, having capability to arrest all arrhythmia with **200** Joules or more
3.2	Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles.
3.3	Should have biphasic technology in accordance with body impedance for a range of 20 Ω to 150Ω

3.4	Should have a built in 50mm strip printer
3.5	Should have charging time of less than **10** seconds for maximum energy
3.6	Should have external (Adult & Paediatric) and internal (Adult, Paediatric & Neonatal) paddles preferably with paddles contact indicator
3.7	Should have event summary facility for recording and printing at least 50 events and 50 waveforms.
3.8	Should have a battery capable of usage for at least 90 minutes or 20 discharges
3.9	Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc
3.10	Should have facility for self test/check before usage and set up function
3.11	Should have External non invasive pacing facility
3.12	Should be capable of delivering energy in increments of 1-2 joules up to 10J and increments of 5 to 20J upto 50J
4	**System Configuration Accessories, spares and consumables**
4.1	Defibrillator – 01 No
4.2	Paddles Adult External – **01 pair**
4.3	Paddles – Pediatrics External – 01 pair
4.4	Patient cables -02 Nos
4.5	ECG Rolls – 50 Nos
4.6	Internals Paddles (Adult, Pediatric and Neonatal) – 2 pairs each
5	**Environmental factors**
5.1	The unit shall be capable of operating continuously in ambient temperature of 10- 40 deg C and relative humidity of 15-90%
5.2	The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15-90%
5.3	Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
6	**Power Supply**

6.1	Power input to be 120-240VAC, 50-60Hz
6.2	Reset table over current breaker shall be fitted for protection
7	**Standards, Safety and Training**
7.1	Should be US FDA & European CE approved product
7.2	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms. (OR EQUIVALENT BIS Standard)
7.3	Drop Test-Withstands 1 meter drop to any edge, corner or surface.
7.4	Should conform to international test protocols on exposure to shock forces and to vibration forces. The standards should be documented.
7.5	Should conform to international test protocols on exposure to shock forces and to vibration forces. The standards should be documented.
7.6	Should meet IEC 529 Level-2 (IP2X) for enclosure protection solid foreign object ingress.
7.7	Should meet IEC 529 Level 3 (IP3X) (spraying water) for enclosure protection, water ingress.
8	**Documentation**
8.1	User manual in English
8.2	Service manual in English
8.3	Certificate of calibration and inspection.
8.4	List of important spare parts and accessories with their part number and costing
8.5	List of Equipments available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service/technical manual.
8.6	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

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

All other tender terms and conditions remain unchanged

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