HSCC/Medical Equipment/SJH Date: 30th Jan. 2017

AMENDMENT-I

Ref.: IFB No. HSCC/SJH/Medical Equipment/2016/26 Dated 04.01.2017

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

It is informed that Amendment for **Defibrillator with internal Paddles Item No. 4** have been received form Safdarjung Hospital (as enclosed) in view of the pre bid meeting queries submitted by the prospective bidders it is to be uploaded on the website today and it proposed to revise the bid submission date from 30.01.2017 to 06.02.2017 for item No. 4, Pre bid queries are being examined for item no. 1,2,3,5 in Safdarjung Hospital. It is proposed to revise the bid submission date from 30.01.2017 to 06.02.2017.till further amendment.

REVISED 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.

Medical Superintendent
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New Delhi.