

Amendment-III**Ref.: IFB No. HSCC/SJH/Medical Equipment/2015/6 Dated 10.7.2015**

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

As per DGHS letter no. F. No. Z-28015/37/2015-MH-1 dt. 17.8.2015 (enclosed) following amendment are to be issued for **Item No. 1 to 12** :**Item No. 1 - List of amendments to be made in the Technical Specification for “Flat Panel Single-plane Cardiac Cath-Lab”(4 Nos)**

Clause No.	Tender Specifications	Amended Specifications
1.1	All movements should be motorized with C-Arm angulations of minimum RAO/LAO +100 DEG. / -100 degree. CRAN/CAUD +45 deg. At head end position. With 20 deg. / sec. or more speed for LAO/RAO and 15 deg./sec or more speed for CRAN/CAUD	All movements should be motorized with C-Arm angulations of minimum RAO/LAO +100 DEG. / -100 degree. CRAN/CAUD +45 deg. At head end position. With 15 deg. / sec. or more speed for LAO/RAO and 15 deg./sec or more speed for CRAN/CAUD
9.0	3D Acquisition and Cross-Sectional Imaging : The 3D Acquisition should offer : 3D Reconstruction and visualization in real time of volume in volume rendering technique (VRT). MPR & MIP It should be possible to create 3D image of left atrium of heart. It should be possible to overlay line fluoro image on this 3D image of left atrium for catheter guidance in EP procedure	Deleted
6.14	The DQE of detector must be minimum 70%	The DQE of detector must be minimum 65%
20. C	List of important spare parts and accessories with their part number and costing	List of important spare parts consumables and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine

Item No. 2 - List of amendments to be made in the Technical Specification for Intra Vascular Ultrasound Machine (IVUS) for Coronary Application (1no.)

Clause No.	Tender Specifications	Amended Specifications
B. 1	Should be a Windows based IVUS imaging system capable of accepting transducer ranging from 5-40 MHz.	Should be a Windows based IVUS imaging system capable of accepting transducer of 40 MHZ
C. d	IVUS Catheters – 10 nos	IVUS Catheters – 50 nos
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumables and accessories with their part number and costing should be provided and Price of consumables, accessories to be fixed for two years from date of installation of machine
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for first three years of AMC/ CMC period	Deleted

Item No. 3 - List of amendments to be made in the Technical Specification for FFR (Fractional Flow Reserve) Measurement System (1no.)

Clause No.	Tender Specifications	Amended Specifications
B. 2	Should communicate with PC with LCD of at-least 18” screen	Should communicate with PC with LCD of at-least 14” screen
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts consumables and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for first three years of AMC/CMC period	Deleted

Item No. 4 - List of amendments to be made in the Technical Specification Optical Coherence Tomography (OCT) System (1no.)

Clause No.	Tender Specifications	Amended Specifications
F. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts Consumables and accessories with their part number and costing should be provided and Price of consumables, accessories to be fixed for

		two years from date of installation of machine
G. 1	Model should be latest generation	Model should be latest generation as per given specifications
G. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for first three years of AMC/CMC period	Deleted

Item No. 5 - List of amendments to be made in the Technical Specification for Fully Automatic Fiber Optic Intra Aortic Balloon Pump (3no.)

Clause No.	Tender Specifications	Amended Specifications
B. 2	Transportable, Compact IABP system with minimum 2 Hours of Battery Backup	Transportable, Compact IABP system with minimum 1 Hour of Battery Backup
B. 5	Should have 3 modes of Operation, 1) Automatic, 2) SemiAutomatic, 3) Manual	Should have 2 modes of Operation, 1) Automatic, 3) Manual
B. 17	On screen indication of standby time and should give alarm after 20 mins, to draw user's attention on the system being on standby	On screen indication of standby time and should give alarm up to 20 mins, to draw user's attention on the system being on standby
C. a	ECG Cable with Lead wires: 8set	ECG Cable with Lead wires: 1 set with each system
C. b	Reusable Invasive Blood Pressure Transducer: 12 Nos	Reusable Invasive Blood Pressure Transducer: 2 Nos with each system
C. c	Refillable Helium Cylinder compatible with the IABP system Qty: 8 Nos	Refillable Helium Cylinder compatible with the IABP system Qty: 2 Nos with each system
C. d	Intra Aortic Balloon F/o Catheter for Adult, size 30-35 cc Qty: 12 nos	Intra Aortic Balloon F/o Catheter for Adult, size 30-35 cc Qty: 4 nos with each system
C. e	Intra Aortic Balloon F/o Catheter for Adult, size 40cc Qty: 12 nos	Intra Aortic Balloon F/o Catheter for Adult, size 40cc Qty: 4 nos with each system
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumable and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for	Deleted

	first three years of AMC/CMC period	
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Item No. 7 - Amendment list for 3D Electroanatomical Mapping System

Clause No	Tender Specifications	Amended Specifications
Heading/Title	Specifications for 3D Electroanatomical Mapping System with Intracardiac echocardiography (ICE) Technical Specification	Specifications for 3D Electroanatomical Mapping System
B. 5	The system should offer Multiple catheter visualization: Can Visualize multiple catheters and at least 50 electrodes All electrodes can be seen (tip and curve) Complete visualization of the Pulmonary vein mapping eter and other spiral catheters of any brand	The system should offer Multiple catheter visualization: Can Visualize multiple catheters and at least 50 electrodes All electrodes can be seen (tip and curve) Complete visualization of the Pulmonary vein mapping catheter and other spiral catheters of any brand
B. 15	The system should have direct compatibility between the 3D Mapping system to Intracardaic 3D Ultrasound systems to provide diagnosis based on ICE (Intra cardiac echo) technology. The system should be capable of integrating real-time intracardiac echocardiography (ICE) imaging of the complete cardiac anatomy with 3D maps to improve procedure safety, optimize workflow efficiency, and enhance confidence. The ultrasound catheter tip used in the system should contain both ultrasound phased array probe and navigation sensor. The vendor should provide compatible Ultrasound machine for Intracardiac echocardiography(ICE) and the compatible ICE probe with ultrasound phased array probe and navigation sensor should be approved for human use in India	Deleted
C. 7	Compatible Ultrasound machine for ICE: 1 No	Deleted
C. 8	Compatible ICE probe with navigation sensor: 5 Nos	Deleted
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumables and accessories with their part number and costing. Price of

		consumables, accessories to be fixed for two years from date of installation of machine.
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for first three years of AMC/CMC period	Deleted

Item No. 8 - AMENDMENT LIST FOR CARDIOVASCULAR ELECTROPHYSIOLOGY AND RADIOFREQUENCY ABLATION SYSTEM(1 Nos)

Clause No.	Tender Specifications	Amended Specifications
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumable and accessories with their part number and costing. Price of consumables, accessories to be fixed for two years from date of installation of machine.
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately and the price should be fixed for first three years of AMC/CMC period	Deleted

Item No. 9 - List of amendments to be made in the Technical Specification for ADVANCED 2D ECHOCARDIOGRAPHY SYSTEM (3 Nos)

Clause No.	Tender Specifications	Amended Specifications
1	The system should be of latest generation, fully digital Echocardiography system with digital beam former	The system should be of Top of line, State of art ,latest generation, fully digital Echocardiography system with digital beam former
6	Machine should be capable of on-site up-gradation for contrast imaging & intra-cardiac Echocardiography without need of any hardware or software change	Machine should be capable of on-site up-gradation for contrast imaging without need of any hardware or software change
9	System should have minimum 25,000 digital processing channels or more	System should have minimum 50,000 digital processing channels or more
A.12	The system should have dynamic range of 180-dB & scanning depth upto 30cm	The system should have dynamic range of 200-dB & scanning depth upto 30cm
13	System should have an acquisition frame rate in 2D of at-least 700 frames/second and color frame rate of 300Hz. Acquisition frame rate should be clearly mentioned in the technical quote	System should have an acquisition frame rate in 2D of at-least 1000 frames/second and color frame rate of 150 HZ. Acquisition frame rate should be clearly mentioned in the technical quote
22(vi)	Should have software to calculate myocardial torsion and twist of different segments	Deleted

<u>23</u>	Tissue Doppler Imaging (TDI) velocity mode quantification to measure the myocardial velocity and derive the strain rate and strain along user-defined M-lines, should be capable of drawing upto 3 M-lines at a time, capable of subdividing each m-line into 8 sub-regions or according to user-defined sub-region sizes, Point of Interest tool – to obtains values from any point on the M-mode display	Tissue Doppler Imaging (TDI) velocity mode quantification to measure the myocardial velocity and derive the strain rate and strain along user-defined M-lines, should be capable of drawing upto 3 M-lines at a time.
<u>24</u>	Advanced parameters for LV systolic and diastolic function including, Fractional Area Change (FAC), Peak Ejection Change and Peak Rapid Filling Rate may also be displayed. Color Kinesis (CK) tool to provide color-coded visualization of global and regional wall motion.	Advanced parameters for LV systolic and diastolic function including, Fractional Area Change (FAC), Peak Ejection Change and Peak Rapid Filling Rate may also be displayed.
<u>25</u>	Mitral annular CK allows visualization of AV plane Motion	Deleted
<u>31</u>	On-board Image Management Storage – should have >1,00,000 image storage facility in the hard disk drive	On-board Image Management Storage – should have >5,00,000 image storage facility in the hard disk drive
<u>39.ii</u>	Range of 2 to 8 MHz Broadband Phased Array Transducer for Pediatric imaging: 1 No	Range of 4 to 8 MHz Broadband Phased Array Transducer for Pediatric imaging: 1 No
<u>39.iii</u>	Range of 5 to 14 MHz Broadband Phased Array Transducer for neonatal cardiac imaging: 1 No	Range of 4 to 10 MHz Broadband Phased Array Transducer for neonatal cardiac imaging: 1 No
<u>39.iv</u>	Broadband Phased Array sector TEE Transducer for adult imaging: 1 No	Broadband Phased Array sector TEE Transducer for adult imaging(2-7MHZ): 1 No
<u>39.v</u>	New point to be added	Broadband Paediatric TEE transducer (3-7MHZ)-1 No
<u>v</u>	separate workstation or review and analysis of images with storage capacity for 10,000 images: 3 Nos	separate licensed workstation for off line quantification of 2 D data of images with storage capacity of 4TBS : 3 Nos
<u>F. 5</u>	List of important spare parts and accessories with their part number and costing	List of important spare parts(including all transducers and TEE probes), consumables and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine
<u>G. 6.</u>	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately	Deleted

Item No. 10 - List of amendments to be made in the Technical Specification for 4D (LIVE 3D) ECHOCARDIOGRAPHY COLOUR DOPPLER SYSTEM (1No)

Clause No.	Tender Specifications	Amended Specifications
B. 1	Latest generation high end & Technologically advanced Digital Live 3D Echocardiography system for adult cardiac applications	Top of the line, state of art , Latest generation high end & Technologically advanced Digital Live 3D Echocardiography system for adult cardiac applications
B. 2	System should have minimum 50,000 digitally scalable channels for simultaneous formation, acquisition and processing of multiple ultrasound beams and has system architecture to process an entire bandwidth of frequencies form 1MHz to 15 MHz System should support pulse coding and pulse shaping technologies. Please mention number of digital channels in technical bid and highlight same in specification sheet.	System should have minimum 100,000 digitally scalable channels for simultaneous formation, acquisition and processing of multiple ultrasound beams and has system architecture to process an entire bandwidth of frequencies form 1MHz to 10 MHz System should support pulse coding and pulse shaping technologies. Please mention number of digital channels in technical bid and highlight same in specification sheet.
B.3	System should have a dynamic range of minimum 180 DB so that variety of patient sizes can be handled without compromise. Please mention dynamic range in the technical bid with supporting specification sheet	System should have a dynamic range of minimum 200 DB so that variety of patient sizes can be handled without compromise. Please mention dynamic range in the technical bid with supporting specification sheet
B. 14	Should be able to perform advanced quantification measurements like Strain & Strain Rate Quantification. Should Measure the myocardial velocity and derives the strain rate and strain along user-defined M-lines, Capable of drawing up to 3 M-lines at a time, Capable of sub-dividing each m-line into 8 sub-regions or according to user-defined sub-region sizes, Point of Interest tool obtains values from any point on the M-mode display	Should be able to perform advanced quantification measurements like Strain & Strain Rate Quantification. Should Measure the myocardial velocity and derives the strain rate and strain along user-defined M-lines.
B. 16	Should have a 17-inch Monitor, preferably a Flat Panel type.	Should have a 19-inch Monitor, preferably a Flat Panel type.
B. 22.f	Regular TEE probe 2D multiplane with colour Doppler adult	Regular paediatric TEE probe 2D multiplane with colour Doppler
B.22.g	Latest Pentium PC(off-line workstation) with software for analyzing and quantification of 2D and 3D data sets, CD writer with Image Management	Latest Pentium PC(off-line workstation) with licensed software for analyzing and

	Software and colour laser Printer.PC should be offered with a flat panel 17 inch display monitor	quantification of 2D and 3D data sets, CD writer with Image Management Software and colour laser Printer.PC should be offered with a flat panel 17 inch display monitor
B. 22 .j	New point to be added	Online UPS with 30 min backup: 1 No
C.	2 nos machine with above mentioned accessories with each machine	1 no machine with above mentioned accessories with each machine
F. 1	Should be US FDA / European-CE and Indian regulatory body approved product	Should be US FDA and Indian regulatory body approved product
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumable and accessories(including all transducers and TEE probe) with their part number and costing. Price of consumables, accessories to be fixed for two years from date of installation of machine

Item No. 11 - List of amendments to be made in the Technical Specification for COMPUTERISED STRESS TEST SYSTEM (2no.)

Clause No.	Tender Specifications	Amended Specifications
B. 13	Final reports must be exportable from the system in Word,PDF	Final reports must be exportable from the system in Word/PDF
B. 16. A	System should provide risk assessment tools for SCD like – T wave Alternas	Deleted
B. 16.B	Should be provided with a Pulse Oximetre, which can be programmed to take SPO2 automatically with each stage	Deleted
C. 6	(Optional) Pulse Oximetre: 2 Nos	Deleted
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts consumables and accessories with their part number and costing should be provided. Price of consumables, accessories to be fixed for two years from date of installation of machine
H. 6	Price of spares/accessories/ consumables/ disposable etc should also be quoted separately	Deleted

	and the price should be fixed for first three years of AMC/CMC period	
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Item No. 12 - List of amendments to be made in the Technical Specification for HOLTER MONITORING SYSTEM (4no.)

Clause No.	Tender Specifications	Amended Specifications
Monitor system specifications-7.	Should provide automatic atrial fibrillation detection. Pacemaker analysis, atrial and Ventricular, capture failure, over sensing, under sensing	Should provide automatic atrial fibrillation detection. Pacemaker analysis, atrial and Ventricular ectopics .
Recorder Specifications-2	Should have graphic display to preview ECG waveform of multiple leads during patient hookup, lead quality (Impedance) check. Lead fail and Low battery indication. Online display of Time while recording	Should have graphic display to preview ECG waveform of multiple leads during patient hookup. Lead fail and Low battery indication. Online display of Time while recording
Recorder specification-4	Digital recorder should have a sampling rate of 10,000 samples/sec/channel for pacemaker spike detection	Digital recorder should have a sampling rate of 500 samples/sec/channel for pacemaker spike detection
Recorder specification-5	Should work on a single AA alkaline/ Lithium battery for complete 48 hours recording	Should work on a single AA alkaline/ Lithium battery for complete 24 hours recording
D. 5	Compatible card reader: 2 Nos	Compatible card reader/ compatible data transfer cable : 2 Nos
G. 5	List of important spare parts and accessories with their part number and costing	List of important spare parts, consumable and accessories with their part number and costing should be provided and Price of consumables, accessories to be fixed for two years from date of installation of machine

The bid submission date is changed from **21.8.2015** to **02.9.2015**. All other tender terms and conditions remain unchanged.

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

**Medical Superintendent
Safderjung Hospital & VMHC,
New Delhi.**