

Amendment-XIX**Ref.: IFB No. HSCC/SJH/Medical Equipment/2015/5 Dated 07.7.2015 (Item No. 1-9).**

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

Following are the amendments in Radiology Equipment:

Item No. 1 - MRI 3 Tesla

S. No.	Tender Specifications	Amended Specifications
8 Workstation	<p>1. One thin client server to serve 5 concurrent licenses to be supplied with the system.</p> <p>Licenses: Concurrent license here implies the capability to process all the loaded software to be accessible and usable on all the 5 systems simultaneously without any processing delay. The software should also include a reputed antivirus software of a perpetual type or renewed by the supplier.</p> <p>Hardware: Node: Out of the 5 concurrent licenses (software), the vendor has to supply the hardware in the form of CPU and Medical grade monitor (18" or more; 2 megapixels or more resolution) for 5 nodes.</p> <p>Hardware: Server: The server (single/dual configuration) should have image storage capacity of at least 3 Terra bytes, minimum 40,000 concurrent slice processing power and at least 64GB RAM.</p>	<p>One thin client server to serve 3 concurrent licenses to be supplied with the system.</p> <p>Licenses: Concurrent license here implies the capability to process all the loaded software to be accessible and usable on all the 3 systems simultaneously without any processing delay. The software should also include a reputed antivirus software of a perpetual type or renewed by the supplier.</p> <p>Hardware: Node: Out of the 3 concurrent licenses (software), the vendor has to supply the hardware in the form of CPU and Medical grade monitor (18" or more; 2 megapixels or more resolution) for 5 nodes.</p> <p>Hardware: Node: The vendor has to supply the hardware for 3 nodes – X820 or equivalent CPU, dual quad core processor, 16 GB RAM, 1 TB hard drive, DVD Writing with clinical grade monitor of minimum 2 MP. A reputed Anti-virus solution for server should be in place".</p> <p>The server (single/dual configuration) should have image storage capacity of at least 3 Terra bytes, minimum 20000 concurrent slice processing power and at least 32 GB RAM</p>
8 Workstation		<p>Cardiac package: should have comprehensive cardiac post processing software including for coronary MRA with regular free updates in future in both warranty & CMC period</p>

Item No. 2 - 256-Slice CT Scan

S. No.	Tender Specifications	Amended Specifications
9 Resolution	<p>b. The high contrast resolution should be more than 20 lp/mm in all routine scan, including spiral and axial mode.</p>	<p>b. The high contrast resolution should be more than 14.5 lp/mm in all routine scan, including spiral and axial mode.</p>

7 Computer Section	j. CT should be with dual monitor console with two concurrent workstations (thin client server architecture based solution) comprising of medical grade monitors (2 mega pixel resolution) with at least 8GB RAM. The server should have image storage capacity of 3 Tera bytes, minimum 40000 concurrent slice processing power and at least 64 GB RAM. It can be single/dual server configuration. The two concurrent workstations should have processing capabilities for basic 2D /3D and following advanced applications.	j. CT should be with dual monitor console with two concurrent workstations (thin client server architecture based solution) comprising of medical grade monitors (2 mega pixel resolution) with at least 8GB RAM. The server should have image storage capacity of 3 Tera bytes, minimum 20000 concurrent slice processing power and at least 32 GB RAM. It can be single/dual server configuration. The two concurrent workstations should have processing capabilities for basic 2D /3D and following advanced applications.
		Added: Quality Assurance Test as per AERB regulation at quarterly intervals will be responsibility of vendor

Item No. 3 – Biplane DSA

S. No.	Tender Specifications	Amended Specifications
E Collimeter	2. The collimator should have facility for automatic copper pre-filtration for reducing the x-ray dose.	The collimator should have facility for automatic copper pre-filtration for reducing the x-ray dose in fluoro & CINE model.
F Biplane Digital System	5. Spatial resolution should be at least 3.0 LP/mm in frontal plane and 2.5 LP/mm in the lateral plane.	Spatial resolution should be at least 2.5 LP/mm/ or more in frontal plane 2.5/3 LP/mm in the lateral plane.
G. Digital Imaging System and essential softwares	6. It should have minimum image storage capacity of 1,00,000 images in the 1024 x 1024/12 bit.	It should have minimum image storage capacity of 100000 images in the 1024x1024/8/10/12 bit
		Added: Quality Assurance Test as per AERB regulation at quarterly intervals will be responsibility of vendor

Item No. 4 – 100mA Digital Radio Fluoroscopy (DRF) System

S. No.	Tender Specifications	Amended Specifications
Table 1e	Carbon fiber table top	Carbon fiber or composite material top
Monitors 3a	Four number ultra-high resolution, high-definition medical grade monitors 19” or more LCD monitors for high-contrast (min 2MP), distortion free image display separately for the live and reference images. Two monitors to be ceiling suspended in exam room and two in control console.	Four number ultra-high resolution, high-definition medical grade monitors 19” or more LCD monitors for high-contrast (min 1MP) or more, distortion free image display separately for the live and reference images. Two monitors to be ceiling suspended in exam room and two in control console.
4 f	Fluoroscopy KV Range 40-125KV or better	Fluoroscopy KV Range 40-110KV or better
8	Out of X-Ray Tube, X-Ray Generator &	Deleted

	Detector, any two should be from the same manufacturer.	
1Table	Suitable grid with grid ratio of 12:1 or better	Suitable grid with grid ratio of 10:1 or better

Item No. 5 – Digital Flat Panel Radiography System

S. No.	Tender Specifications	Amended Specifications
N 87	Out of 3 major components of the Digital Radiography system (Detector, Tube and Generator) 2 Components Generator & tube should be from the same manufacturer.	Deleted
D40	Motorized detector tilting facility with either IR remote or handswitich control required	Tilting vertical detector facility should be available
		Added: Quality Assurance Test as per AERB regulation at quarterly intervals will be responsibility of vendor

Item No. 6 – Portable Flat Panel Radiography System

S. No.	Tender Specifications	Amended Specifications
20.	Out of three major components (Detector, X-Ray Tube & X-Ray Generator) at least two should be from the same manufacturer.	Deleted
	The unit should be compact, easily transportable digital mobile radiographic unit with articulated or telescopic arm , preferably articulated. It should be suitable for bedside x-ray for ward patients, intensive care units and operation theaters. The unit should be a digital system with flat panel detector. The vendor should provide a demonstration of the capability of their machine to perform X-ray procedures on all body parts (including head and chest) of any patient with the machine counterbalance positioned at the foot end of the patient. If the DR system is inoperable it should be able to function as conventional system.	The unit should be compact, easily transportable digital mobile radiographic unit with articulated or telescopic arm. It should be suitable for bedside x-ray for ward patients, intensive care units and operation theaters. The unit should be a digital system with flat panel detector. The vendor should provide a demonstration of the capability of their machine to perform X-ray procedures on all body parts (including head and chest) of any patient with the machine counterbalance positioned at the foot end of the patient. If the DR system is inoperable it should be able to function as conventional system.
		Added: Quality Assurance Test as per AERB regulation at quarterly intervals will be responsibility of vendor

Item No. 7 – High End Colour Doppler USG with Biopsy

S. No.	Tender Specifications	Amended Specifications
9	The system should have a very high frame rate of at least 1000 frames per second in B mode and more than 200 fps in /Color mode. Please specify.	The system should have a very high frame rate of at least 700 frames per second in B mode and more than 200 fps in/color mode. Please

		specify.
33	Machine should have shear wave/whole body arfi elastography and provided with linear & convex probes.	Machine should have shear wave elastography with convex probe and strain elastography with linear probe.

Item No. 8 – Portable Ultrasound with Colour Doppler System

S. No.	Tender Specifications	Amended Specifications
1	The unit should be compact, lightweight and portable. Weight should not exceed 12kg excluding cart and accessories.	The unit should be compact, lightweight and portable. Weight should not exceed 10 kg.

Item No. 9 – Colour Ultrasound Machine with Biopsy

S. No.	Tender Specifications	Amended Specifications
1	<p>26. The system should have real time 3D (4D) package. Please quote optionally for convex volume probe.</p> <p>27. System should be offered with the following probes and accessories:</p> <p>(a) Convex probe with frequency range of 3.0-6.0 MHz. (± 1Mhz) with biopsy guide.</p> <p>(b) TV/TR probe with frequency range of 5-8 MHz (± 1Mhz).and minimum field of view of 125 degree with biopsy guide.</p> <p>(c) Linear probe with frequency range of 6.0-11.0 MHz(± 1Mhz).</p> <p>(d) 1 KVA or appropriate capacity On-line UPS for operating system for at least 30 minutes.</p> <p>(f) B/w Thermal Printer with 100 paper rolls.</p> <p>Above mentioned probes must have multifrequency selection and THI.</p> <p>28 Please also quote and provide the following:</p> <p>(a) Linear probe 8-14 Mhz.(± 1Mhz).</p> <p>(b) (b) High frequency convex probe of frequency 5-8 Mhz. (± 1Mhz).for pediatric/ Neonatal application.</p> <p>(c) Convex volume (4D) probe</p> <p>(d) Intra operative probe (7-15 MHz) (± 1Mhz).</p>	<p>Specs Point No.26, 27 & 28:- These points are being modified and will be as follows:-</p> <p>a) Convex probe with frequency range of 3.0-6.0 MHz. (+/- 1MHz) with biopsy guide</p> <p>b) TV/TR probe with frequency range of 5-8 MHz (+/- 1MHz) and minimum field of view of 125 degree with biopsy guide.</p> <p>c) (c) Linear probe with frequency range of 6.0-11.0 MHz ((+/- 1MHz).</p> <p>d) Convex volume (4D) probe.</p>

The revised bid submission date which was earlier extended to 01.2.2016 is now 15.2.2016.

Amendment 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.**