



Date: -11th May, 2017

Corrigendum
For
Tender for
4 D Echo Machine with TEE Probe for Adult and
Pediatric High Echo Cardiology System for the
Department of Cardiothoracic Surgery

NIT Issue Date	: 03 rd April, 2017
NIT No.	: Admn/Tender/66/2017-AIIMS.JDH
Pre-Bid Meeting	: 21 st April, 2017 at 03:00 PM
Earlier Last Date of Submission	: 22 nd May, 2017 at 03:00 PM
Extended Last Date of Submission	: 08 th June, 2017 at 03:00 PM
Bid opening	: 09 th June, 2017 at 03:45 P.M

The following revised and additional specification will be added:-

1. Page No. 11, In Technical Specification, Point No. 2:

For

System must be offered with a minimum of 10,00,000 digital processed channels. Original technical data sheet should be enclosed in technical bid to support the number of channels on the system. If not mentioned, please attach a letter from the manufacturer along with the technical bid clearly stating the digital processed channels of the offered system.

Read

System must be offered with a minimum of 8,00,000 digital processed channels. Original technical data sheet should be enclosed in technical bid to support the number of channels on the system. If not mentioned, please attach a letter from the manufacturer along with the technical bid clearly stating the digital processed channels of the offered system.

2. Page No. 11, In Technical Specification, Point No. 4:

For

System must be offered with a minimum 19 inches high-resolution flat panel medical grade display monitor with nearly infinite position adjustments. Company should provide wider monitor if available

Read

System must be offered with a minimum 21 inches high-resolution flat panel medical grade display monitor with nearly infinite position adjustments. Company should provide wider monitor if available

3. Page No. 11, In Technical Specification, Point No. 8:

For

Image storing facility on in built hard disc or MOD/CD/DV-RW facility should be available. In built-in hard disk the capacity should be of minimum 5 TB or 5,00,000 images. System should have extensive image management capability including thumbnail review, cine loop editing etc.

Read

Image storing facility on in built hard disc or MOD/CD/DV-RW facility should be available. In built-in hard disk the capacity should be of minimum **1 TB** or 5,00,000 images. System should have extensive image management capability including thumbnail review, cine loop editing etc.

Need to provide 5 TB external Hard drive for data storage and should be compatible with system provided.

4. Page No. 12, In Technical Specification, Point No. 13:

For

System should be offered with user-friendly high-resolution user interface touch panel of minimum size of 10-11 inches or intuitive keyboard. User friendliness will be given preference.

Read

System should be offered with user-friendly high-resolution user interface touch panel of minimum size of 10-11 inches **and** intuitive keyboard. User friendliness will be given preference.

5. Page No. 12, In Technical Specification, Point No. 14:

For

Should be able to perform MPR views for Quantification from 3D Imaging on Volume measurements like LV volumes, Ejection fraction from 3D Image, etc. Also should offer 3D synchronicity indicates to measure and compare timing of maximum contraction of regional LV volumes. Should display global LV volume and should provide simultaneous display of 17 regional volume waveform. This should be offered both OFFLINE as well as online. OFF-LINE workstation of Apple or equivalent brand (Both hardware and software) should be supplied and highlighted in the technical bid.

Read

Should be able to perform MPR views for Quantification from 3D Imaging on Volume Measurements like LV volumes, Ejection fraction from 3D Image, etc. Also should offer 3D synchronicity indicates to measure and compare timing of maximum contraction of regional LV volumes. Should display global LV volume and should provide simultaneous display of 17 regional **volume/strain** waveform. This should be offered both OFFLINE as well as online. OFF-LINE workstation of Apple or equivalent brand (Both hardware and software) should be supplied and highlighted in the technical bid.

6. Page No. 12, In Technical Specification, Point No. 20:

For

Should be provided with (One Each of) : Adult transthoracic 2 D probe {with Frequency ranging from 1-5 MHz, of Single crystal or Pure Wave technology (System offered with normal transducer for Adult ECHO are liable for rejection)},

Adult Transthoracic 3 D probe{Convex Array matrix Transducer with Frequency ranging from 1-5 MHz},

Paediatric Transthoracic 3 D probe,

Adult Transesophageal 3 D probe,

Paediatric Transesophageal 2D probe,

Epi-aortic probe, vascular probe {Linear Array Matrix transducer with Frequency of 3-11MHz}.

Read

Should be provided with (One Each of) :

1. Adult transthoracic 2 D probe {Phased array matrix transducer with Frequency ranging from $1-5 \pm 1$ MHz, of Single crystal or Pure Wave technology (System offered with normal transducer for Adult ECHO are liable for rejection)},
2. Adult Transthoracic 3 D probe Phase Array matrix Transducer with Frequency ranging from $1-5 \pm 1$ MHz,
3. **Paediatric Transthoracic 2 D probe,**
4. Adult Transesophageal 3 D probe,
5. Paediatric Transesophageal 2D probe ,
6. Epi-aortic probe, vascular probe {Linear Array Matrix transducer with Frequency of 5-15 MHz}.
7. **Linear array Probe with frequency ranging from $4-11 \pm 2$ Mhz. for Peripheral vascular**

7. Page No. 12, In Technical Specification, Point No. 22:

For

System should provide with-

- a. Latest PC of Apple or equivalent brand (off-line licensed workstation) with licensed software for analyzing and quantification of 2D and 3D data sets, CD/DVD writer with Image Management Software and High End colour laser Printer should be supplied. PC should be supplied with a flat panel 17 inch display monitor. (Hardware essential for OFFLINE Quantification)
- b. Latest B/W Thermal Printer.
- c. 3KVA online UPS with a backup of 30 min minimum, from any reputed brand

Read

System should provide with-

- a.) Latest PC of Apple or equivalent brand (off-line licensed workstation) with minimum 2TB Hard drive, 2x8 GB DDR 3 RAM, Intel i7- 3.5 GHz or higher processor, Two serial port, Minimum 4 USB port, Inbuilt Bluetooth & Wi-Fi, 24" Touch screen LED Monitor, Keyboard, mouse, 10 or latest Windows professional or equivalent, licensed software for analyzing and quantification of 2D and 3D data sets, CD/DVD writer with Image Management Software and High End colour laser Printer with auto duplexing should be supplied. PC should be supplied with the licensed software to work on the below features.
 - i. Strain and Strain rate imaging.
 - ii. Semi-Automated Border Detection.
 - iii. Tissue Motion Annular Displacement.
 - iv. Mitral Valve 3D data sets
 - v. 2D speckle tracking
 (any other Hardware essential for OFFLINE Quantification)
- b.) Latest B/W Thermal Printer.
- c.) Two 3KVA online UPS with a backup of 30 min minimum, from APC or Emerson brand
- d.) One Mac OS Laptop with 512 GB or more hard drive. This should be supplied with the licensed software (if required option for dual boot should be provided) to work on the below features.
 - i. Strain and Strain rate imaging.
 - ii. Semi-Automated Border Detection.
 - iii. Tissue Motion Annular Displacement.
 - iv. Mitral Valve 3D data sets
 - v. 2D speckle tracking (any other Hardware essential for OFFLINE Quantification)
- e.) ECG cable: two in numbers

8. Page No. 13, In Technical Specification, After Point No. 22:

Added Point No. 23:

Should provide rates for 3D Transthoracic Paediatric Probe optionally. Quoted rate Will not be considered for comparison. Rate Justification for same needs to be provided with.

9. Page No. 13, In Technical Specification, After Point No. 23:

Added Point No. 24:

System should have DICOM 3.0. System should have DICOM 3.0 print and store service classes with support for modality, worklist, perform procedure set up, storage commit.

10. Page No. 13, In Technical Specification, After Point No. 24:

Added Point No. 25:

Documentation

1. Printed user/Technical/Maintenance manuals to be supplied in English.
2. Certificate of calibration and inspection.
3. 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.

11. Page No. 12, In Technical Specification, After Point No. 25:

Added Point No. 26:

Warranty:

CMC and AMC (period is prescribed elsewhere) should be inclusive of system as well as the all transducers.

CMC should be unconditional and include all accessories **including third party items**.

12. Page No. 12, In Technical Specification, After Point No. 26:

Added Point No. 27:

Other requirements

- 1 Availability of spares to be ensured for minimum 10 years period
2. Working Demonstration is must after installation.
3. Two good quality, branded increased height chairs (revolving with back rest) to be provided for the echo-cardiographer.
4. There should be one high quality large size table of reputed brand (eg. Godrej, etc.) to keep Workstation (computer & printer).
5. 50 rolls of thermal paper to be provided for thermal printer.
6. Colour Print Paper- 500 sheets
7. One set of Color laser printer (compatible) cartridges, in addition to the supplied with printer.

13. Page No. 13, In Technical Specification, General Conditions Point No. 7:

For

Demonstration: The Department may ask for demonstration of actual quoted product or even for trial use.

Read

Demonstration of quoted system/product with live case and demo of various modality and highlights of Machine by a Qualified person will be required (if needed) for technical qualification. Necessary legal permissions will procured by company.