TO SUBSTITUTE ONE BEARING THE SAME NUMBER & DATE

Corrigendum

Reference: Tender No.JNMCH/Cardiology/05/2018-19 dated 18.08.2018 with revised specification and Terms & Conditions for the purchase of **High End 4D Echocardiography System**.

<table>
<thead>
<tr>
<th>A</th>
<th>Technical Specification</th>
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<tr>
<td>1</td>
<td>The system must be latest generation, highest &amp; technologically advanced digital 4D (Live 3D) echocardiography system. Any other model other than the highest end and latest version is liable for rejection.</td>
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<td>2</td>
<td>System must be offered with a minimum of 50,00000 digital processed channels. Original technical data sheet should be enclosed in technical bid to support the number of channels on the systems. If not mentioned, Please attach a letter from manufacturer along with the technical bid clearly stating the digital processed channels of the offered system.</td>
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<td>3</td>
<td>System must have adult cardiology transducer with either single crystal technology or pure wave technology or matrix or equivalent for excellent greyscale image quality on difficult to image patients. Please mention the technology used in the transducer. Original technical data sheet should be enclosed in technical bid to support the crystal technology.</td>
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<td>4</td>
<td>System must be offered with a minimum 21 inch high resolution <strong>OLED</strong> medical grade display monitor with infinite position adjustments. Company should provide wider monitor if available.</td>
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<td>5</td>
<td>System should have at-least four Imaging universal active probe ports with electronic switching facility from key board without probe adapter.</td>
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<td>6</td>
<td>System should be capable of supporting second generation 4D(Live 3D) matrix transhombic transducer capable of supporting a minimum of 3000 elements for exceptional 4D (live 3D) Echo, 4D(Live 3D) zoom, triggered full volume and triggered 3D colour volume with electro Cautery suppression.</td>
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<td>7</td>
<td>System should support board band probes spanning a frequency of 1-15 MHz.</td>
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<td>8</td>
<td>Image storage facility on in build hard disc or MOD/CD/DVD-RW facility should be available. Inbuilt hard disk with capacity of 1TB. System should have extensive image capability including thumb nail review, Cine loop editing etc. management.</td>
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<td>9</td>
<td>System must be offered with speckle reduction Imaging: Image processing technique to remove speckles and clutter artifacts.</td>
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<td>10</td>
<td>System should be upgradable for 4D (Live 3D) Echocardiography capability with colour flow imaging with single beat.</td>
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<td>11</td>
<td>System should be capable of scanning depth of 30cm. Scanning Depth should be clearly mentioned in the technical quoted. If not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the scanning depth of 30 cm in the offered system.</td>
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<td>12</td>
<td>Should be able to perform advanced quantification measurements like strain &amp; Strain rate quantification. Should measure the myocardial velocity and derive 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. In addition to the tissue Doppler based strain system should have 2D based strain like API or CMQ should be offered. These should be offered both on the system and on a licensed workstation. OFF-CART workstation (both licensed hardware and licensed software) should be quoted and highlighted in the technical bid.</td>
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13 System must be offered with user friendly high resolution user interface touch panel of minimum size of user friendliness will be given preference.

14 Should be upgradable to perform Bi plane imaging and multi view rotation option should be available. That helps to take short axis from plax view and from four chamber, it can provide two chamber and and three chamber view also. This option should be available in stress echo also. Integrated stress echo facility to perform Stress Echo exams.

15 The system should have the facility of displaying the three planes of the 3D data set.

16 Contrast Imaging should be offered as standard on the system, with optimization for LOW and HI MI applications. Should also have facility of LOW MI with triggered replenishment Imaging.

17 Auto ejection fraction calculation and dyssynchrony calculation Software should be available.

18 Should have the state of the art Transmit real time compound Imaging Technology with Multiple transmitted lines of sight, wherein multiple coplanar Images from different viewing angles are obtained and combined into a single compound Image at real-time frame rates for improved visualisation. Should demonstrate and show multiple transmitted line of sight in linear probes

19 3D live software upgradation package should be offered as an additional feature for future upgradation of the echo machine to full 3D live system. (Price of the software upgradation package will be included for final L1 calculation).

B Following Transducers (Frequency tolerance +/-1MHz) should be supplied with the system

1 1-5 MHz Broadband adult echo transducer for adult cardiology imaging. Must have Tissue harmonic Imaging, must have either single crystal technology or pure wave or matrix technology for excellent Image quality on difficult to image patients. Must attach original technical data sheet of transducer to specify the above technology used in the transducer. This adult probe must be of the smallest foot print

2 3-8 MHz Broadband paediatric echo transducer for paediatric and small adult cardiology imaging

3 4D (Live 3D) Echo matrix transducer for adult 4D Transthoracic (Live 3D) with frequency ranging from 1-5±1 MHz. This probe must support a minimum of 3000 elements for exceptional 4D (Live 3D) image quality on the matrix array transducer to simultaneous display of two real-time live high-quality image planes. This transducer should have either single crystal technology or pure wave technology for excellent Image quality on difficult to image patient. Please mention the crystal technology used in the transducer. Systems offered with normal transducers for adult echo are liable for rejection.(Optional probe- Price need to be quoted and Price of probe will be included for final L1 calculation)

4 4D (3D) Echo matrix TEE transducer for Adult 4D (3D) with frequency ranging from 2-7 MHz. (OPTIONAL PROBE, Price need to be quoted and this probe price is not included for L1 calculation)

5 Live 4D Echo software should be quote as an additional feature. (Optional feature- price will be included for final L1 calculation).

6 System should be upgradable with 2-7 MHz 4D paediatric transthoracic echo transducer for paediatric and small adult 4D Echocardiography imaging(Optional probe)

C System should be supplied with the following peripheral devices :

1 2 KVA ONLINE UPS with 30 minutes battery backup.

2 B/W Printer

D Prices should be quoted as Follows

Part 1: Basic 2D echo machine with the above specs and 2D adult and paediatric TTE probes.

Part 2: Software up-gradation package to a full 4D system

Part 3a: 3D Live Adult TTE probe

Part 3b: 3D Live Adult TEE probe

For L1 combined price of all the parts would be considered

All quoted prices should be valid for 1 year from the date of tender opening.
Terms & Conditions

1. The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The over all offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, he same will be treated as unresponsive and it may be rejected. In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

2. No overwriting or cutting is permitted in the rates. If found, quotation shall be summarily rejected.

3. The Equipment/System/Instruments should be USFDA/CE European approved product

4. The goods ordered shall be delivered and installed at the JN Medical College Hospital, AMU, Aligarh, within 75 days from the date of issue of supply order.

5. All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, then a penalty at the rate of 0.5% per week of the total order value shall be levied subject to maximum of 10% of the total order value. The successful tenderer will also provide required training for supplied item at the J.N. Medical College Hospital, AMU, Aligarh. The goods should be manufactured after adoption of latest technology.

6. If at any time during the currency of the contract, the supplier encounters conditions hindering timely of the goods and performance of services, the supplier shall promptly inform the JN Medical College Hospital, AMU, Aligarh, for extension of the delivery schedule accordingly. On receiving the supplier’s communication, the J.N. Medical College Hospital, AMU, Aligarh shall examine the situation as soon as possible and at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier’s contractual obligations by issuing an amendment to the contract.

7. In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charge shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

8. The supplier shall be required to perform the following services:
   a. Installation & Commissioning, Supervision and Demonstration of the goods.
   b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
   c. On Site Training to Doctors/Technicians/Staff is to be provided by Supplier for operation and maintenance as per direction of user department.
   d. Supplying required number of operation & maintenance manual for the goods.
   e. To provide non-locked open software and standard interface inter-operability conditions for Networked equipment's in hospital management information system, wherever applicable.

9. The separate price list of all accessories and consumables, if any, must be attached/enclosed along with the Financial Bid.
10. After sales service should be available on 24 (hrs.) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 24hrs to ensure an uptime of minimum 95%, wherever applicable, failing which the necessary penalty measures shall be enforced.

11. The J.N. Medical College Hospital, AMU, Aligarh shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the Purchaser. Medical Superintendent, J.N. Medical College Hospital, AMU, Aligarh, shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions. No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, the same will be auctioned at the risk and responsibility of the suppliers without any further notice.

12. The bidder shall provide a list of major Government and Private Institutions where its relevant bid item has been supplied during last two years.

13. The bidder (if not original equipment manufacturer must submit Original Equipment Manufacturer authorization certificate that the tenderer is authorized for selling and maintain the equipment quoted for.

14. The bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (Government/ Private).

15. The successful bidder will be required to submit order copies of the supply of the equipment in Government Institutions in last 24 months for rate reasonability purpose.

16. The supplier shall make arrangements for insuring the goods against loss or damage incidental of manufacture or acquisition, transportation, storage and delivery. If the equipment is not commissioned and handed over to J.N. Medical College Hospital, AMU, Aligarh, within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the J.N. Medical College Hospital, AMU, Aligarh.

17. The bidder supplying equipment/goods or already imported goods shall quote the price only in Indian Rupees. Further, imported goods to be imported and supplied by the bidder are also required to be quoted in Indian Rupees and F.O.R. JNMC Hospital.

18. Please mentioned CGST/SGST or other taxes clearly & separately which will be payable on the goods in India.

19. The price of Annual CMC Financial Bid after warranty period must be mentioned clearly.

20. 100% payment of the total order value shall be released only after the successful installation/Commissioning of the ordered goods/equipment against the submission of the inspection report. No advance payment is possible.

21. The Tenderers must quote for 05 years comprehensive warranty including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately. Also the bidders are requested to submit their quote (Rates) for subsequent 05 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour).
22. During the comprehensive warranty period, the guarantee uptime of 99% or 300 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be forced. The vendor must undertake to supply all spares for optimal up keep of the equipment for at least FIVE YEARS after handling over the unit to the Institute. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.

23. The principal or their authorized service providers are required to submit a certificate that they have satisfactory service arrangement and fully trained staff available to support the uptime guarantee.

24. Arbitration: If any difference arises concerning this agreement, its interpretation on payment to the made thereunder, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation don’t yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision to the sole arbitrator i.e. Vice-Chancellor, AMU, Aligarh, or his nominee. The decision of the sole arbitrator shall be binding on parties. The venue of arbitrator will be at Aligarh.

25. Subletting of Work: The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of J.N. Medical College Hospital, AMU, Aligarh, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.

26. Breach of Terms and Conditions: In case of breach of any terms and conditions as mentioned above, the Competent Authority will have the right to cancel the Purchase order/work order/job without assigning any reason thereof and nothing will be payable by J.N. Medical College Hospital, AMU, Aligarh, in that event the security deposit shall also stands forfeited.

27. In solvency etc: In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions here in specified, the Medical Superintendent, J.N. Medical College Hospital, AMU, Aligarh shall have the power to terminate the contract without any prior notice.

28. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.

29. The quantity of item given in the tender is tentative, which may be increased or decreased as per the requirement of the hospital.

30. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
31. Conditional bid will be treated as unresponsive and it may be rejected.

32. **Demonstration**: The J.N. Medical College Hospital, AMU, Aligarh reserves the right to ask the tenderers for arranging demonstration of their equipment for which rates have been quoted to the concerned committee, if required.

33. The hospital reserves the right to accept in part or in full or reject any or more tender(s) without assigning any reasons or cancel the tendering process and reject all tender(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

34. **Applicable Law:**
   • The contract shall be governed by the laws and procedures established by Govt. of India within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings/processing.
   • Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Aligarh Uttar Pradesh, India only.
   • The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Aligarh. The decision of the Arbitrator shall be final and binding on both the parties.

[Signature]

Prof. Haris M. Khan
Medical Superintendent
J.N. Medical College Hospital
A.M.U. Aligarh