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Published Corrigendum Details

Date : 03-Jul-2025 02:38 PM

Print

Organisation Chain :	All India Institute of Medical Science-New Delhi||Store IRCH - AIIMS New Delhi
Tender ID :	2025_AIMSD_862508_1
Tender Ref No :	IR-04/IRCH/R.D/2025-26
Tender Title :	Procurement of Advanced USG Machine with Shear Wave Elastography and Contrast Enhancement under buy back basis.- 01 set
Corrigendum Type :	Date

Corrigendum:1

Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
Extension of BID submission Date	Extension of BID submission Date	03-Jul-2025 02:37 PM	BID_Extension.pdf	201.26

Critical Dates

Publish Date	30-May-2025 05:00 PM	**Bid Opening Date**	05-Aug-2025 05:00 PM
Document Download/Sale Start Date	30-May-2025 05:00 PM	**Document Download/Sale End Date**	04-Aug-2025 05:00 PM
Clarification Start Date	30-May-2025 05:00 PM	**Clarification End Date**	06-Jun-2025 05:00 PM
Bid Submission Start Date	07-Jun-2025 10:00 AM	**Bid Submission End Date**	04-Aug-2025 05:00 PM

Details Before Corrigendum

Critical Dates

Publish Date	30-May-2025 05:00 PM	**Bid Opening Date**	07-Jul-2025 10:00 AM
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Bid Submission Start Date	07-Jun-2025 10:00 AM	**Bid Submission End Date**	05-Jul-2025 05:00 PM

ALL INDIA INSTITUE OF MEDICAL SCIENCE
DR. B.R.A INSTITUTE OF ROTARY CANCER HOSPITAL
(STORE SECTION)

Ansari Nagar, New Delhi-110029
Date:- 03.07.2025

T.NO.IR-04/IRCH/R.D/2025-26

CORRIGENDUM

Subject: Extension of Bid Submission date – regarding

With reference to tender No. IR-04/IRCH/R.D/2025-26 (Tender ID: 2025_AIMSD_862508_1) for procurement of "Advanced USG Machine with Shear Wave Elastography and Constrast Enhancement Under buy Back Basis-01 Set " for Department of Diagnosis & Interventional Onco. Radilogy, Dr. BRAIRCH.

It is informed that bid submission & date of opening bid have been extened 30 days by Competent Authority due to administrative reason, the details are as below:-

Particulars	Existing dates	Amended/extended dates
Bid Submission End Date & Time	05.07.2025 at 05:00 PM	04.08.2025 at 05:00 PM
Bid Opening Date & Time	07.07.2025 at 10:0a AM	05.08.2025 at 05:00 PM

The above is issued without prejudice to other specifications, dates and terms & conditions.

Sd/-
(Archna Sharma)
Sr. Stores Officer, DR. BRAIRCH, AIIMS

Government ePurchase System

eProcurement System Government of India

Published Corrigendum Details

Date : 16-Jul-2025 02:44 PM

Print

Organisation Chain :	All India Institute of Medical Science-New Delhi||Store IRCH - AIIMS New Delhi
Tender ID :	2025_AIMSD_862508_1
Tender Ref No :	IR-04/IRCH/R.D/2025-26
Tender Title :	Procurement of Advanced USG Machine with Shear Wave Elastography and Contrast Enhancement under buy back basis.- 01 set
Corrigendum Type :	Technical Bid

Corrigendum Document Details

Corr.No.	Corrigendum Title	Corrigendum Description	Published Date	Document Name	Doc Size(in KB)
1	Corrigendum in Technical Specification	Corrigendum in Technical Specification	16-Jul-2025 02:44 PM	Corrigendum_1_spec.pdf	2355.82

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Dr. B.R.A. INSTITUTE ROTARY CANCER HOSPITAL
(Store Section)

Ansari Nagar, New Delhi – 110029
Date: 16.07.2025

CORRIGENDUM

Tender No.: IR-04/IRCH/R.D/2025-26
Tender ID: 2025_AIMSD_862508_1

Subject: Revised Tender Specifications – Regarding

With reference to Tender No.**IR-04/IRCH/R.D/2025-26**(Tender ID: **2025_AIMSD_862508_1**) for procurement of *"Advanced USG Machine with Shear Wave Elastography and Contrast Enhancement on Buyback Basis"* for the **Department of Diagnostic and Interventional Onco-Radiology**, Dr. BRAIRCH, AIIMS – the following amendment has been made to the existing technical specifications, as enclosed at **Annexure-1**.

This corrigendum is issued **without prejudice** to all other terms, conditions, and dates mentioned in the original tender document.

Sd/-
(Archna Sharma)
Sr. Stores Officer, DR. BRAIRCH, AIIMS

Technical Specification (Rev-II)

Advanced USG Machine with Shear Wave Elastography and Contrast Enhancement on Buyback Basis

Estimated Cost: Rs.1.50 Cr

1. A latest premium top of the line ultrasound system of the highest performance class is required for advanced fine diagnostics and research. Technology for dynamic transmission focusing, at least four imaging transducer connections as well as a high-resolution viewing monitor in OLED/LED/ HDU or equivalent technology and a touch panel for easy operation must be included in the basic device.
2. A full portfolio of high-performance transducers supporting superb image quality must be offered. Imaging even at high penetration depths up to 45 cm or more must be meaningful using appropriate technology.
3. Advanced applications such as Contrast Enhanced Ultrasound (CEUS), Shear wave Elastography, latest fat quantification technique and image fusion must be possible. Of particular importance is the contrast enhanced imaging of all required and offered transducers as well as the possibility of being able to operate shear wave elastography to support precise lesion detection and characterization and to potentially reduce the need for invasive procedures.
4. **Hard Drive:** The system should support up to 1 TB of local storage capacity.
5. **QWERTY Keyboard:** The system should support a retractable physical keyboard.
6. **Touch Panel:** The system should support an integrated LCD / LED touch display with min. of 12.0" screen.
7. **Monitor Adjustment:** The system should support an adjustable LCD touch screen.
8. The system should have 256 grey shades (8 bits) or more.
9. The system should have a fast boot up time of less than 150 seconds, when switched on from 'OFF' position. Explicitly mention disinfectant(s) that can be used for display, touchpad and transducers.
10. **Transducer Ports:** The system should support minimum 4 active transducer ports.
11. **Monitor:** Full high-definition video display 24 -inch diagonal widescreen with OLED /LED/ HDU equivalent technology with 2K X 1K pixels resolution.
12. **Dynamic range:** The system shall provide a dynamic range of at least 300 dB.
13. **System Imaging Depth:** The system should support a maximum imaging depth of 45 cm or more.
14. **Virtual Format Imaging:** The system should support image steering left/right and trapezoid image format.
15. **Magnification:** The system should support digital magnification in frozen, cine, or real time imaging
16. **Anatomical M-mode:** The system should support anatomical M-mode in live and cine.
17. **Color Flow Optimization:** The system should support flow state optimizations.
18. **Artifact Suppression technology:** The system can detect and prevent color motion artifacts to reduce noise, while at the same time enhances color sensitivity for improved image quality, reduced variability between users and improved workflow.

19. **Directional Power Doppler**: The system should support directional Power Doppler.
20. **Power Doppler flow states – Anatomy:** The system should support anatomic specific user-selectable directional Power Doppler flow states.
21. **Doppler Automated Optimization Function:** Optimizes multiple parameters including baseline, scale (PRF), wall filter and gain automatically on freeze or on demand (user configurable).
22. **Angle Correction PW/CW:** The system should support Angle correction 0 – 89°
23. **2D-mode Display:** The system should support full screen, Live Dual, Dual and seamless dual screen formats from live imaging. Dual screen is also available on freeze. The system also should support independent cine of Live Dual on freeze.
24. **Color/Power-mode Display:** The system should support 2D/C-mode and Live Dual 2D-2D/C-mode.
25. **Transducer Scan Formats:** The system should support Curved, Micro-Convex, Linear, hockey stick, Endo cavity.
26. **Contrast resolution:** The system should support a method for reducing speckles and enhances contrast to provide a realistic tissue presentation and patient-specific processing that adapts to differences in tissue.
27. **Dynamic Persistence:** The system should support dynamic persistence to prevent motion artifacts when transducer or patient motion is detected.
28. **Compound Imaging:** The system should support 2D image optimization technique for enhanced viewing of tissue differences by detection of subtle lesions and enhanced tissue differentiation. The system should have Tissue Harmonic Imaging (THI) facility. The system should have THI capability on phased linear, 3D and curved array transducers. THI should be available in colour flow imaging, M-mode and 3D rendering modes. The system should be able to work in combined mode of Harmonic Image and Real-time Compound Imaging. The system should have Tissue Harmonic Imaging in Power Doppler mode.
29. **Auto Image Optimization (2D-mode):** The system optimizes the overall field-of-view (FOV) image brightness uniformity by changing the depth gain compensation and overall gain. Should support 2D-mode(s) optimization in real time or from freeze.
30. **Auto Image Optimization (PW-mode):** The system optimizes the overall field-of-view (FOV) image brightness uniformity by changing the depth gain compensation and overall gain. Should support PW-mode optimization in real time or from freeze.
31. **Auto Image Optimization (Continuous):** The system continuously applies the Auto Image Optimization to a 2D-mode image while live scanning.
32. **Contrast Agent Imaging:** Complete contrast imaging package with quantification should be provided. It should be able to detect fundamental as well as second harmonic response of the contrast agent, dynamic contrast imaging with quantification in user selectable regions of interest. These should be option of adjusting time duration of CEUS loop and quantification should be possible for any loop cycle ranging from 30 seconds to 180 seconds. The quantification should be visible as time-intensity curve and parameters including mean transit time, peak intensity,

area under curve, time to peak, etc. If the quantification software is not embedded within the equipment, the separate software in a dedicated and compatible workstation should be provided.

33. **Strain Imaging:** The system should support a qualitative representation of relative tissue stiffness for the region of interest. Strain Ratio provides a quantifiable method to compare the relative stiffness of tissue within two user-selectable regions of interest.
34. **Tissue Shear Velocity (2D SWE):** The system should support the ability to qualitatively depict shear velocity for a selected region of interest on a 2D image and provides quantitative measurements of shear velocity (Vs) and elasticity ((**kPa**)) for selected points within the region of interest.
35. **Tissue Shear Velocity:** The system should support the ability to measure tissue shear velocity (Vs) and elasticity ((**kPa**)) for a selected region of interest and provides measurement labels for sites, lesions, and liver segments.
36. **Auto Tissue Shear Velocity:** Shear Wave Ultrasound Elastography Imaging should be provided to evaluate Relative Tissue Stiffness for breast / liver / other small part applications on all transducers. Please specify the body parts for which Shear Wave Ultrasound Elastography is available, the Technique applied and the Transducer used for the same. The system should permit the simultaneous display of a color-coded tissue stiffness map as well as shear wave elasticity measurements in one single image.
37. The system should support the ability to automatically measure tissue shear velocity (Vs) and elasticity ((**kPa**)) measurements within the user defined ROI (region of interest) as E mean or equivalent.
38. **Ultrasound Liver Fat Quantification:** The system should support the ability to determine hepatic steatosis, by latest fat quantification technique.
39. **Fusion Imaging:** The system should support Fusion imaging that aligns reference data from Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) with a real-time ultrasound. The system should provide latest fusion imaging facility with automatic and manual GPS needle tracking system for interventional procedures.
40. **Vascular Enhancement:** The system should support a real-time, adaptive, pixel-by-pixel vascular analysis to reduce noise within macro- and microvascular structures, provide clearer vessel wall definition with improved tissue boundary detection, and enhance tissue contrast resolution.
41. **Auto Doppler:** The system should support workflow automation tools by updating the imaging parameters including color box position and steering angle, PW gate position, steering angle, and angle correction.

Transducer Technology:

Transducer Types: The system should support high density Phased Array, Curved Array and Linear Array transducers.

Single Crystal Technology: The latest generation single-crystal piezoelectric designs should be offered with wider bandwidths for better harmonic imaging and axial resolution. This allows greater sensitivity for deeper penetration and clearer imaging.

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1. **CONVEX Transducer:** Frequency range: 1.5 – 5.0 MHz +/-1
2. **LINEAR Transducer:** Frequency range: 3.5 – 15 MHz +/-1
3. **LINEAR Hockey Stick Transducer:** Frequency range: 6 – 18 MHz +/-1
4. **Micro-convex Transducer:** Frequency range: 3 – 10 MHz +/-1
5. **Endovaginal / Endorectal Transducer:** Frequency range: 3 – 9 MHz+/-1with add-on reusable metallic biopsy guide needle holder.

- **Hibernate Mode Boot Up Time:** Boot up from hibernate mode should be in approximately 30 seconds.
- **CINE Review:** The system should support a minimum Cine Memory up to 80.000 acqus or 300 sec. in 2D and cine clip up to 30 sec in Doppler mode.
- **Post–Processing in Freeze and CINE:**The system shall provide post-processing functions in 2D mode-, Color-, Doppler- and M-mode.
- **Study Types:** The system shall provide factory-supplied examinations and transducer dependent imaging presets optimized for each application to provide consistency, reliability and increased productivity. All applications should include body markers, text and annotation labels.
- The system shall provide one-touch registration, the system should identify new procedure descriptions and save the configuration for future workflow efficiency.
- **Workflow Protocols:** The system should provide a dedicated control for workflow protocols e.g., Activate, Pause, Resume and Advance with increasing efficiency and decreasing user keystrokes.
- **Automated Trace Measurement:** The system should support automated trace measurements with area, maximum diameter and volume by using a border detection algorithm on a user-defined region of interest.
- **Data Storage and Review:** The system should support data storage and review of completed ultrasound studies, including static images, dynamic clips, measurements, calculations, and reports.
- **Clip Capture:** The system should provide a prospective and retrospective clip capture capability.
- **Exported Image Formats:** The system should have provision to export images in RTF, PDF, TIFF, JPG and DICOM format.
- **Exported Video formats:** The system should export images in AVI and DICOM Multi frame format.
- **USB Ports** The system should support USB 3.0 ports (front/rear) and should support export to USB flash drive.
- **Virtual Workstation: The system should** enable users access to PACS, RIS and Cloud PACS directly from the ultrasound system.
- **Network Connections:** The system should be connected to hospital RIS/PACS in ready to use configuration. System should be able to connect to the existing printers for easy printing option.
- **DICOM Modality Worklist:** The system should support query and direct download of the patient worklist schedule from the Hospital/Radiology Information System (HIS/RIS).

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- **DICOM Modality Performed Procedure Step:** The system should support automatic exchange of Modality Performed Procedure Step information with the Hospital/ Radiology Information System (HIS/RIS).
- **Gel Warmer:** The system shall have integrated gel warmer.
- **Design Standards:** The system should comply with design standards.
- Vendor should be PCPNDT approved. Related certifications need to be provided with the bid.
- Sufficient battery backup with online UPS: The system shall have ability to function at100 -240V, AC 50-60 Hz with good functionality. Sufficient battery with online UPS should be providing at least 30 minutes or more without any external power source.
- Certifications: CDSCO certificate is must
- The system should have robust data security for data protection.
- The system manufacturer shall additionally provide onsite product training for 4 weeks in staggered manner and access to online ultrasound education for end users.
- The bid should be quoted with buyback of functional old portable ultrasound machine FUNCTIONAL ACUSON Siemens S2000 HELX existing in department. Buyback price should be mentioned in financial bid.
- Guarantee / Warranty: Comprehensive, on-site Warranty for two (02) years and CAMC for eight (08) years covering main unit, battery, transducers, and all accessories supplied should be quoted.
- Warranty should be followed by on-site Annual comprehensive Maintenance Contract (including all spares and labor as in warranty) for 3rd to 10th year. Price of the CAMC must also be quoted separately in the financial bid with yearly break-up.
- The vendor should agree to provide any kind of future software updates at no additional cost for a period of 10 years from the date of installation.
- System should be able to have RIS/PACS/HIS connectivity through standard DICOM protocol, allowing multiple connectivity options.
- The vendor should provide movable patient couch with adjustable height and tilt.
- Live demonstration of the quoted model should be arranged by the vendors when requested.

IMPORTANT INSTRUCTIONS:

a. All information in the tender document must be supported by original product data sheets or should be certified by the principals. Computer generated data sheets, photocopies or email printouts shall not be accepted.
b. All information asked for must be provided in the compliance statement under the headings given above.
c. Supplier must ensure the availability of expertise service and maintenance in New Delhi. Spare parts and repair for the next 10 years must be ensured.
d. Application Specialist should be available for on-site training for 4 weeks in staggered manner.

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e. At least three working installations of quoted model should be present in India AND at least three satisfactory performance certificates from these users should be provided.

f. The Principals shall give a commitment that warranty and maintenance of the equipment shall in no way be affected by any corporate changes such as change in the authorized agent or any merger, transfer (in part or full), amalgamation or separation of the company or any of its constituents etc. for that matter.

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