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GST No.32AAAJI0299R1ZS

IISER/PUR/0783/MSS-P/SP/24-25

तारीख/ Date: 07 Apr 2025

CORRIGENDUM TO TENDER NO
No: IISER/PUR/0783/MSS-P/SP/24-25

Sub: Supply, Installation and commissioning of High Performance Ultrasound (US) Imaging System and HIFU System: reg

Ref: Tender Enquiry No. 2024_IISRT_839938_1

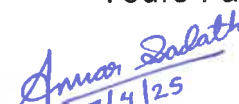
1. Since no bids were received, the above mentioned tender is re-tendered with revised technical specification at Annexure 1.
2. The due date and date of opening will be as follows:-

1.	Date of Issue/Publishing	07 Apr 2025
2.	Document Download/Sale Start Date	07 Apr 2025
3.	Document Download/Sale End Date	05 May 2025
4.	Clarification End Date	21 Apr 2025
5.	Last Date and Time for Uploading of Bids	05 May 2025 (1500 Hrs)
6.	Date and Time of Opening of Technical Bids	06 May 2025 (1530 Hrs)
7.	Date of Opening of Price Bid	Will be intimated later
8.	Tender Fee (INR)	Nil
9.	EMD Amount (INR)	Rs.3,70,000/- (Rupees Three Lakh Seventy Thousand only)
100	Detailed Specifications	As per annexure 1

3. All other Terms and Conditions remain the same as per the tender document dated 16 Dec 2024. Bidders may quote accordingly.

Thanking You,

Yours Faithfully


7/4/25
Assistant Registrar (P&S)



**Annexure 1 to tender TENDER NO
No: IISER/PUR/0783/MSS-P/SP/24-25
Dated 07 Apr 2025**

1. Number of channels (emission): ≥ 128
2. Number of channels (receipt or acquisition): ≥ 64
3. Mode of operation of the channels: Simultaneous emission and acquisition of signals by the specified number of channels, i.e., Rx: ≥ 128 channels and Tx ≥ 64 channels
4. Operating frequency range: Lower limit ≤ 5 MHz and Upper limit ≥ 45 MHz
5. External synchronization or triggering mode: Triggering input and triggering output
6. Triggering through software
7. Accessible to raw-data, i.e., raw data is directly assessable to the user
8. Compatible to adapt or integrate with the home-built photoacoustic imaging (PAI) system and access the raw data, i.e., enable to trigger the US imaging system with triggering from pulsed laser source in the home-built PAI system (so that it operates only in listening/receiving mode) and enable to operate in pulse-echo US image mode (through) triggering (or time-sharing mode)
9. In continuation to Point 8, the US imaging system serves as acoustic sensors for both the US imaging system and PAI system that is entirely controlled by triggering from pulse triggering output from pulsed laser source (in PAI system), and the raw data for both US imaging and PAI can be assessed or retrieved by the user
10. Time-lag for triggering US imaging and PAI: ≤ 100 msec.
11. Sampling frequency: ≥ 100 MHz or feasibility to acquire ≥ 100 MHz
12. Analog-to-digital-converter (ADC): ≥ 12 bit
13. Signal amplification: ≥ 40 dB
14. Image frame rate: ≥ 10 frames per sec.
15. Imaging features: Able to operate at least plane-wave/pulse-echo imaging, variable focal length imaging, doppler imaging, and shear-wave imaging. These can be modified or replaced (controlled) by the user (or customer algorithms).
16. Able to integrate with custom-built software (including beam-former and image processing algorithms) and hardware (ultrasound transducer and other prototypes)
17. Image reconstruction algorithms (to be included in the system)
18. Compatible computer system configured and provided with the US system.
19. Integrability with MATLAB software: MATLAB software with Signal Processing Toolbox can be installed and configured with the ultrasound imaging system.
20. Individual (acquired) channel data and reconstruction data are available and accessible in MATLAB work-space for storage and off-line processing with customer-built software or algorithms.
21. Linear probe with number of channels ≥ 128 , Operating frequency: ≥ 35 MHz, and compatible to the US imaging system
22. Expandable system configuration, i.e., the technical specification and configuration can be expanded (including increasing the number of channels to any higher number of channels from the drawn number of channels (with minimum of 128))



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23. Compatible to adapt with customer-built transducer of elements: ≥ 128 channels, i.e., the system to be fitted with universal transducer adapter.
 24. Warranty: ≥ 1 year
 25. Demonstration of operation of the system (for validation of the drawn technical specification):
Online/Physical
 26. Duly certified technical data sheet for validation of the specification: To be enclosed
 27. Supporting software: Lifetime free
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Optional Items:

1. Extended warranty: ≥ 2 years
 2. A High Intensity Focusing Ultrasound (HIFU) transducer along with the necessary accessories:
number of channels ≥ 64
 3. Linear probe: Number of channels ≥ 128 ; Operating frequency: ≥ 5 MHz; Compatible to the US imaging system
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4. One computer system: Hard disk: ≥ 1 Tb, Processor $\geq i7$, RAM ≥ 16 Gb (and upgradable)
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