



DEPARTMENT OF APPLIED MECHANICS,  
BIOMEDICAL ENGINEERING GROUP  
I.I.T. MADRAS CHENNAI-600036

Dr. Arun K. Thittai  
Associate Professor

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Ref. No.: APM/HODX/AKT/16-17/003

DATE:28/11/2016

DUE DATE: 20/12/2016

**RFQ for Ultrasonic Data Acquisition System for Detecting ARF induced displacements**

1. Quotations are invited in duplicate for the item shown in Enclosed list (Annex. - I).
2. Quotations are invited as TWO-BID system, i.e., technical bid and financial bid.
3. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
4. The Quotations should be valid for sixty days from the due date and the period of delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty required.
5. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
6. Compliancy certificate is to be provided indicating conformity to the technical specifications.
7. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
8. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses.
9. Packing and delivery charges must be clearly indicated.
10. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.

11. Goods should be supplied carriage paid and insured.
12. Goods shall not be supplied without an official supply order.
13. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.
14. In case of LC, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation.
15. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above
16. Acceptance and Rejection: - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
17. Kindly send the quote to the undersigned co-ordinator.

  
Dr. ARUN K. THITTAI  
Associate Professor  
Dept. Of Applied Mechanics  
Indian Institute of Technology Madras  
Chennai - 600 036.  
Co-ordinator

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ANNEXURE - I

Technical Specifications:

DESCRIPTION	QNTY.
<ul style="list-style-type: none"><li>• Ultrasound Data Acquisition Platform for research purposes that has access to raw Channel RF data</li><li>• At least 64 TX/RX channels with access to raw pre-beamformed RF data</li><li>• Compatible with Linear array Transducer with center frequency in the in the standard clinical range {5-8MHz}</li><li>• Transducer Port should be universal, i.e., compatible to work with transducers made/marketed by other leading ultrasound scanner manufacturers as well .</li><li>• RF sampling rate should be programmable and allow to achieve at least 60 MHz at 14-bit resolution</li><li>• Access to manipulate the beam formation parameters within the system</li><li>• Access to run user developed- imaging protocols for data acquisition</li><li>• Access to library of Matlab scripts to read/ manipulate the RF data and other data acquisition setting parameters</li><li>• Should enable Very high frame rate imaging (several 1000 fps) using plane wave transmit</li><li>• Provision to enable arbitrary wave form generation</li><li>• Provide access to example scripts for plane wave imaging, conventional focussed imaging, harmonic imaging, radiation force and shear wave visualization, coded excitation, and others. Thus, enabling the us to modify/replace these to develop novel methods.</li><li>• The item requested should have been supplied to other leading Research Labs/Institutions that conduct research in biomedical ultrasound.</li></ul>	1

  
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