



Indian Institute of Technology Madras

Chennai - 600 036

STORES & PURCHASE SECTION

Form for Inviting Quotations

Ref.No.	CIE-ARUM	2014	Ultrasonic System	SPLX	Date: 11.8.2014
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DUE DATE:01.09.2014

Dear Sir/Madam,

1. Quotations are invited in duplicate for the item shown below / overleaf / **Enclosed list**
2. The Quotations duly sealed and **superscribed 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.
3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. 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.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. 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.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. 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.


PROJECT COORDINATOR 1/2

Quotations to be sent to:

Dr. ARUN MENON
PROJECT COORDINATOR
DEPT. OF CIVIL ENGINEERING
IIT MADRAS, CHENNAI - 600 036

Limited Tender for Ultrasonic System for Tomographic Surveys

Quotations are invited for Ultrasonic system complete with data logger, transmitters and receivers in multi-channel configuration for simultaneous acquisition of sonic/ultrasonic signals, and including semi-rugged laptop with necessary processing software. The system should allow detailed tomographic surveys for massive cross-sections in masonry (both brick and stone), concrete and timber. The system should be particularly suited for investigation of heritage/historical structures.

Specifications for data logger:

- Number of channels : 1. Simultaneous acquisition from 4 channels
2. Connecting up to 16 channels
- Analogue to Digital : 4 Nos., 16-bit
- Sample frequency : 2 KHz to 2 MHz
- Amplification : User selectable gain:
1-2-5-8-10-16-20-32-64-160-256-320-512-
640-1024 volts
With an acquisition buffer of 16000 samples
- Acquisition unit to PC : Preferably by ethernet cable
- Power supply : Chargeable internal battery: 110 - 240 V AC

Sensors:

- Transmitters : Piezoelectric type - 20 KHz - 1 No.
- 55 KHz - 1 No.
Instrumented hammer – 1 No. for massive walls
Instrumented chisel – 1 No. for focusing energy
of impact in massive walls
- Receivers -16 Nos. : Uniaxial accelerometer
Sensitivity: 1000 mv/g
Frequency range: 0.3 to 8000 Hz
Resolution: 30 microg pk
Fixing by bolt

Processing software:

- Capable of recording signals in digital format
- Save and export data in TXT and ASCII format
- With graphical user interface (GUI) to draw tomographs and other graphs, and directly pick first arrival times.

Accessories:

Adequate cable configurations and lengths for receivers and transmitters for distances up to 50 m, each.


PROJECT CO-ORDINATOR