



Indian Institute of Technology Madras
Chennai – 600 036, India

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REF No: OEC/17-18/136/DSTX/VSRR
Due date: 30.12.2017

Dear Sir,

1. Quotations are invited for the items shown below/overleaf/**enclosed list (Annexure I)**.
2. Vendors should give the technical presentation/demonstration on the equipment before the department purchase committee, if required.
3. The quotations duly sealed and super scribed on the envelope with 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. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
5. Fax and Email quotation are not acceptable.
6. Quotations should be valid for 60 days from the due date and period of delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required from the date of commissioning.
7. Imported supplies should be quoted **for CIF Madras**.
8. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
9. 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. Compliancy certificate is to be provided indicating conformity to the technical specifications
10. Sales Tax/General Taxes/ED if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. 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 is given. 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. 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.
14. The Guarantee period of the item may be indicated clearly.
15. In case of LC. Payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the equipment.
16. 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 charges.

17. **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.

Annexure I

Attach the separate quote for tactile sensor hardware and DAQ software

Specifications of the Pressure mapping sensor (tactile Sensor):

1. Sensor should be able to measure high impact pressure and force over an area. The application is Ocean Engineering field.
2. Sensor spatial resolution: 1 to 4 sensel per sq-cm
3. Pressure range: 6 psi to 1200 psi
4. Splash proof: Yes
5. Sensing area: 70mm x 70 mm to 420mm x 420mm
6. Shape: Square / Rectangular
7. Linearity: $<\pm 3\%$
8. Repeatability: $<\pm 3.5\%$
9. Lag Time: 5 μ sec
10. Operating Temperature: -40°C to 60°C
11. Cable Length: Standard-4m, Maximum – 30m
12. Scanning Speed or sampling frequency: Standard : 5kHz, Maximum: 20 kHz
13. Pulse-per-Frame Synchronization: In & Out
14. Digital Resolution: 8 Bit
15. Sensitivity Adjustment: x7 to 1/3 of sensor pressure range

Specifications of the DAQ software:

1. Able to record, save and play back data in real time and export data as an ASCII text file
2. Visualization: 2D, 3D and contour data viewing
3. Save movie format: AVI
4. Scan rate: up to 20kHz
5. Data Analysis provision: Yes
6. Calibration provision: Yes
7. Synchronization: Yes
8. Trigger: Yes

Additional Requirements:

1. Vendors should provide continuous technical support and maintenance of equipment.
2. Vendors must have sufficient experience in supplying equipment in reputed organizations for research purpose. They must provide references of end users whom we can contact for their experience with the supplied machine. Experience of the end users may also be used as a criterion for the selection of bids that meet technical requirements.
3. Vendors must provide detailed documentation for the equipment.
4. Vendors must provide training to our technical staff for using the equipment.
5. All the expenses for installation, training and post sales technical support will be borne by the vendor.

For details you may contact

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