

Department of Engineering Design, Indian Institute of Technology Madras


Limited Tender Reference No.: EDD/VEBA/2018-19/06/001 Date: 26 June, 2018 Due Date: 11 July, 2018

Subject: INVITATION FOR QUOTATIONS FOR SUPPLY OF PRESSURE SENSOR FOR SEAT (Quantity: ONE NUMBER)

Dear Sir/ Madam,

1. Quotations are invited in duplicated for the various item shown below over leaf/enclosed list.
2. The quotations are to be two parts – **One Technical and Commercial offer:** The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the bigger envelope duly sealed and super scribed with reference number and date and due date must be addressed to the under signed so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for 60 days from the due date and the period of delivery required should also be clearly indicated.
4. **Local Firms:** Quotations should be for free delivery to this Institute. If quoted for Ex – Godown delivery charges be indicated separately.
5. **Firms outside Chennai:** Quotations should be for F.O.R Chennai / F.O.B. Chennai / CIF Chennai (Including Insurance and Freight Charges). If Ex-Works, Packing, forwarding and freight charges must be indicated.
6. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the quotations, wherever applicable.
7. The rates of Goods and Service Tax (GST) 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 GST 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 Goods and Service Tax applicable to educational institutions run with no profit motive for which a concession.**
8. Goods should be supplied carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. **Payment:** Every short effort will be made to make payment within 30 days from the date of bill/acceptance of goods whichever is later.
11. The Warranty of the item should be at least 12 months.
12. The Guarantee period of the item may be indicated clearly.
13. IIT Madras 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.
14. **Acceptance and Rejection:** - IITM has the right to accept the whole or any part of the Tender or portion of the quantity offered or rejects it in full without assigning any reason.
15. Any quotations received after the deadline prescribed above will not be accepted. The quotation (duly signed hard-copy) should be sent to the following address.

Dr. VENKATESH BALASUBRAMANIAN
Professor
Dept of Engineering Design
IIT Madras
Chennai-36
Ph.No: 0442257 4117 (Off)
0442257 5630


PROJECT CO-ORDINATOR
Department of Engineering Design
Indian Institute of Technology Madras
Chennai-600 036.

Specifications for Procurement of Pressure Sensor for Seat

1. Sensors should be of resistive type
2. Accuracy of $\pm 8\%$ is expected
3. Pressure range to be measured 36kPa
4. The sensor should identify pressure changes over time, measure contact area and localized peak pressure zones
5. Sensing area of minimum 450 mm x 450 mm and cable length of 1.5m are expected
6. Minimum ADC resolution of 12 bits
7. System should be dynamic and portable
8. Thickness of the sensor should be within the range of 0.17mm to 0.22mm
9. Sensor should work with temperature range of -500°C to 70 °C and humidity range of 10% to 85% RH
10. The connection type should be USB 2.0. Data export should be compatible with Microsoft Excel or video or ASCII formats
11. Contact surface material should be flexible and shall preferably be spandex
12. Supporting OS should include Windows 7,8 and 10
13. Should support synchronized video capture
14. Minimum of one year warranty should be provided
15. Remote assistance and troubleshooting to be supported



PROJECT CO-ORDINATOR
Department of Engineering Design
Indian Institute of Technology Madras
Chennai-600 036.