



सी.एस.आई.आर-संरचनात्मक अभियांत्रिकी अनुसंधान केन्द्र  
**CSIR-STRUCTURAL ENGINEERING RESEARCH CENTRE**

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद Council of Scientific and Industrial Research)  
सी.एस.आई.आर परिसर CSIR CAMPUS, तिरुमनि TARAMANI, चेन्नै CHENNAI - 600 113. भारत INDIA  
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**TWO BID SYSTEM**

Tender Enquiry No. A3(51035)2018/PUR

Dt. 26.10.2018

**EMD Amount Rs.60,000/- (Rupees sixty thousand only).**

(EMD by way of Demand Draft / Bank Guarantee drawn in favour of "The Director, CSIR-SERC, Chennai" should be submitted to CSIR-SERC on or before 13.11.2018 – 14.00 hrs. IST)

The EMD Demand Draft should be kept in a cover sealed with wax, superscripted and properly identified with Tender number and addressed to the Director, CSIR-Structural Engineering Research Centre, CSIR Campus, CSIR Road, Taramani, Chennai - 600 113, India.

**DUE DATE FOR SUBMISSION OF OFFER: 13.11.2018 – 14.00 hrs. IST.**

**The quotation (Technical bid) will be opened on 14.11.2018 at 14.30 hrs. IST.**

**ONLY Online e-tenders are invited under Two parts Tendering System i.e. Part-I Techno Commercial / Unpriced bid & Part-II – Priced bid for the following:-**

Sl.No.	Description	Qty.
1	Cobra probes (TFI Series 100) for flow velocity measurement  4-hole Cobra probe for measurement of 3-component velocity and static pressure measurement with capabilities including: (a) Measurement of Reynolds stresses (b) Real time frequency analysis (c) Real time data processing and display <ul style="list-style-type: none"><li>• 2.6 mm head width with 0.5 mm tap size</li><li>• 'J' stem</li><li>• 14 mm body diameter</li><li>• 160 mm overall length (not including connector)</li><li>• Temperature compensated and fully calibrated pressure transducers</li><li>• Frequency response characteristics should be up to 600 Hz or more</li><li>• Range of flow velocities that can be measured should be a minimum of less than or equal to 2 m/s to a maximum of 40 m/s or more</li><li>• The cable length from the probes to the DAQ system should be a minimum of 15 m</li><li>• Synchronous data acquisition with existing TFI Device Control software</li></ul> Sampling frequency should be a minimum of 2000 Hz per channel or more	4 Nos.

-2-

Sl.No.	Description	Qty.
2.	<p><b>Interface unit required for integrated data acquisition for synchronous data acquisition with existing Cobra probes (TFI Series 100) through interface unit (DIU-2219) and TFI Device Control software</b></p> <p><b>Input connections</b></p> <ul style="list-style-type: none"><li>• 4 x Cobra Probe</li><li>• 8 x BNC (for other instrumentation)</li></ul> <p><b>Integrated data acquisition</b></p> <ul style="list-style-type: none"><li>• 16-bit resolution</li><li>• 250 kHz aggregate sampling</li></ul> <p><b>USB connection</b></p> <ul style="list-style-type: none"><li>• Data to/from PC</li><li>• Power for Cobra Probes</li></ul> <p><b>Clock 'sync' connection</b></p> <ul style="list-style-type: none"><li>• Synchronisation with existing interface unit</li></ul>	1 Unit

TERMS AND CONDITIONS

All the terms of supply as available in our website [www.serc.res.in](http://www.serc.res.in) is applicable.

Controller of Stores & Purchase  
For Director