



DEPARTMENT OF CIVIL ENGINEERING
Indian Institute of Technology Madras
I.I.T.P.O., MADRAS-600 036

Form for Inviting Quotations

Ref.No.CIE/KRAG/2019/Data Acquisition Sys.

Date: 21-8-2019

To

DUE DATE: 5-9-2019

Dear Sirs,

1. Quotations are invited in duplicate for the various items 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 and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes should be enclosed in a single envelope only so as to reach on or before the due date stipulated above.**
3. The Quotations should be valid for ninety 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 rates of GST and 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/General Taxes will be admitted at any stage and on any ground whatsoever. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of import supply the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on **EX-WORXS** and **CIP** basis indicating the mode of shipment.
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.

Yours faithfully,


[PROF. K. RAJAGOPAL]

- Note: (i) Quotation should be sent by SPEED POST only or to be delivered directly to the concerned.
(ii) Firms are requested to submit the specifications of their product along with supporting technical Documentation / brochure instead of reproducing the specifications sent by us.

Specifications for Data Acquisition System

Project Number: CIE1617248CWCXKRAg

No of input channels	8 electrically isolated & individually configurable channels. Facility to upgrade to 16+ channels via cascading.
Sampling rate per channel	Individual sampling rates up to 40,000 samples/second per channel. Individually adjustable / channel
Rated output range	0.5mV/V to 10 mV/V
Signal conditioning	All 8 Channels should support half and full bridge Strain gauges, Load cells, Force transducers, Half & full inductive bridges, LVDT, Thermocouples, Potentiometer, voltage, current & resistance. All individually adjustable for each channel inputs
Size	Must be compact and portable
Transducer connector	Push pull type connection for quick and rugged connectivity
Channel Isolation	All input channels to be electrically isolated. Isolation to avoid inter-channel noise during Acquisition
Power Supply	230V AC adapters for lab
Software	The software should include: Hardware set up, simplified Data logging and simplified data viewing. No Programming knowledge should be required to work on the software
Allowable exciting voltage range	5V and 10V
Connectors	Should be supplied with suitable connectors for all channels
EMC Requirements	To avoid external noises due to EMC/EMI
Carrier frequency (sine)	4800 Hz
Linearity error	Less than 0.02%

One copy of the company printed brochure and list of reputed institutes like IITs and NITs where the equipment was supplied in the past is to be supplied along with the quotation. The product should be warranted against any manufacturing defects for a period of two years. The product should be supplied along with a detailed user manual.

K Res - soka