



Indian Institute of Technology, Madras,
Chennai-600036
Department of Civil Engineering

Ref. No. CIE/Doppler/2016/SPLX

dated 30 -9-2016

DUE DATE: 21.10.2016

Sirs,

1. Quotations are invited **in duplicate (Two bidding covers)** for the item/s shown as per enclosed Specifications.
2. The quotations duly sealed and superscribed on the envelope with the reference No. & due date, should be addressed to the **Head of the Department, Department of Civil Engineering, Indian Institute of Technology, Chennai-600036, India** and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes and these two envelopes should be enclosed in a Single envelope so as to reach on or before the due date.
3. The quotation should be valid for (60) 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. Rate Contract Number 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. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers)
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. Firms outside Chennai: Quotations should be for F.O.R. Chennai. 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.
7. Local Firms: Quotations should be for free delivery to this Institute. If quotations are for Ex-godown, delivery charges should be indicated separately.
8. The rate of Sales/General Taxes and 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 any 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 Certificates will be issued at the time of final settlement of the bill. The Price should be quoted without Excise Duty; Since IIT Madras is exempt from payment of Excise duty.
9. Goods should be supplied by 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,

Chandee-Venka

For HEAD OF THE DEPARTMENT.

Technical Specifications for 1 D Miniature Laser Doppler Velocitymeter

The above system should include a miniature LDV probe, driver electronics, band-pass filter, acquisition hardware and processing software with the following specification.

Velocity Range	-5 to 25 m/sec (Even more if possible)
Accuracy	99% or more
Repeatability	99.9%
Measurable velocity fluctuation	better than 0.002% of the velocity range
Measuring volume length (approx)	1 mm
Stand-off distance in air	> 400 mm
Stand-off distance in water	> 520 mm and < 650 mm
Collection lens diameter	75 mm or less
Probe volume diameter	200 microns or less
Probe volume length	1.2 mm
Frequency shifting options:	User adjustable 0 to 2 MHz
Laser Wavelength	650 - 670nm
Laser power & Type	100 to 140 mW, Class IIIb
Detector	Avalanche Photo Detector
Fringe Separation	Approx. 4 microns
Probe cable length	5m
Probe weight	5 Kg or less (Preferably less)
Power Supply	12VDC universal and Battery operated option
Supply voltage:	100 – 240 VAC, 50-60 Hz
Operating Temperature:	0 to 50 DegC
Software:	Configuration and flow software including data acquisition and analysis.
Warranty:	1 year (or) preferably 2 years

Power cables and connecting cables are to be provided. Probe should be permanently aligned and calibrated.

Chandra - Venk