

Project no:ICS/11-12/013/DSTX/TSUN
Technical Specification of mini-LDV
(Qty-1no)

1. To be able to measure 3 components of velocity in a given flow field.
2. Stand-off distance: 100mm (minimum) to 300mm (maximum) [both included and required]
3. Probe volume diameter- < 70microns at 100mm working distance
4. Probe volume length- < 0.5mm at 100 mm working distance
5. Frequency shifter required for near-zero mean measurements
6. Laser power- 60 – 100mW
7. Probe cable length- 3m (minimum)
8. Data logger, supporting computer and software to be included in the cost
9. Power cables and connecting cables to computers to be provided.
10. should work with air/gases/liquids and over temperature range of 20 to 50 deg C

Software Features.

- (i) shall provide data logging ability over three components of velocity and time of arrival of the particle.
- (ii) shall include post processing ability to output mean and other measures of the distribution.
- (iii) shall have a provision to output raw data file from the measurement.
- (iv) To be able to interface with 3 –axis traversing system to log position of the LDV.

Additional requirements

Installation to be part of the tender. Performance must be demonstrated after installation.