

Technical Specifications for weather sensor system

Application: Sensor system to measure wind speed, wind direction and humidity (**10 nos.**)

Compact: Sensor system should be less than 10 cm x 10 cm x 6 cm in its spatial extent

Weight: Sensor system should be less than 100 grams

Moving parts: No moving parts

Wind speed measurement range: 0-50 m/s

Wind speed measurement resolution: 0.1 m/s or lesser

Wind speed accuracy: Less than 2% or 0.1 m/s

Wind direction: 360 degree in plane, 30 degree out of plane

Humidity sensor: 0 to 100% RH measurement range, resolution of 0.1% RH or lesser, accuracy of 3% or lesser

Data logger: Integrated data logger with data transmission over serial or WiFi link, with adjustable sampling rate for the measurements.

Sampling rate: User-defined sampling rate of up to 10 Hz or larger

Mount: Customizable pipe-mount based for mounting the weather sensor system

Additional Requirements:

1. Vendors should provide continuous technical support and maintenance of equipment.
2. Vendors have to provide warranty for a minimum of one year
3. Vendors must have sufficient experience in supplying equipment in reputed organizations for research purposes. They must provide references like Purchase order Copies of end users whom we can contact for their experience with the supplied machine. Performance Certificate and experience details of the end users will also be used as a criterion for the selection of bids that meet technical requirements.
4. Vendors must provide detailed documentation for the equipment.
5. Vendors may be called to visit and give presentation/demonstration on the equipment after opening the technical bid. They need to provide the approximate date for this presentation in the bid. The time period for this presentation will be intimated at a later date
6. Vendors must provide training to our technical staff for using the equipment.
7. All the expenses for installation, training and post sales technical support will be borne by the vendor