

Central Institute for Cotton Research

Regional Station, Coimbatore: 641003

Dr N Gopalakrishnan
Project Co-ordinator & Head
(Cotton Improvement

Fax: 0422 – 2454021
Phone: Off: 0422-2430045
Email: cicrcbe@gmail.com
Web: www.cicr.org.in

F.No.ST-I/1-1/Plan/08-09/

Dated:4.12.08

Sir,

Sub: Quotation for the purchase of Automatic Weather Station – One no

Sealed quotations are invited by the Project Coordinator & Head, Central Institute for Cotton Research, Regional Station, Coimbatore-3 for the purchase of **Automatic Weather Station – One no** as per the specifications, terms and conditions prescribed below:

Following parameters should be measured and recorded

Wind speed, Wind direction, Atmospheric pressure, Air Temperature, Relative Humidity, Rainfall, Solar Radiation, Sunshine duration. Soil temperature, Soil wetness and Evaporation

DATA LOGGER

Data logger with built-in RH/Temp. Sensors C batteries, software data lead & external sockets for inputs from sensors.

RELATIVE HUMIDITY

Sensor Type	Capacity – silica substrate, chrome alloy electrodes.
Measurement Range	0-100%
Resolution	0.1%
Accuracy	±3%

TEMPERATURE

Sensor	Precision 10k thermistor
Resolution	0.01°C
Accuracy	0.2 at 25°C
Housing	Located alongside the humidity-sensing element to measure temperature of the same air sample as RH% measurements.

Light – Pyranometer Sensor

Detector	Silicon Cell
Accuracy	Less than 3% - typical,
Response	400 - 1100nm.

Wind Speed

Starting speed (threshold)	0.3m/s
Maximum windspeed	Over 75m/s
Accuracy	2% ± 0.1m/s

Wind Direction

Accuracy	$\pm 2^\circ$ obtainable in steady winds over 5m/s
Starting threshold	0.5m/s
Resolution	1°

Rain gauge

Type	Tipping bucket(Standard measuring range of 0-50 mm)
Tip sensitivity	0.2mm of rain Low threshold of 1mm High threshold of 1mm

Air Pressure

Range	500mbar – 1050 mbar
Resolution	Better than 0.1mbar
Accuracy	0.25% full scale reading

Soil/Water temperature probe

Housing	Sensor located at the end of a 3m length of screened cable and completely sealed against water ingress.
Sensor	Precision 10K thermistor
Resolution	0.01°C
Accuracy	Less than 0.2 error at 25°C

Surface wetness

Output	>1.0v wet
Sensitivity	1 mm dia droplet
Operating Temp.range	-25 to +55°C

Evaporation

Measuring range	high precision pressure transducer design 0-250 mm water depth
Resolution	± 1 mm
Output range	40-200mV
Sensitivity	0.64 mV per mm

Soil Temperature

Measurement Range	-5°C to +95°C
Depth	Up to 60 cm soil depth

Technical Conditions

Weather station should be of self recording type

The system should be maintenance free during the deployment period

The scope supply should include accessories for installation, spare units of sensors, memory modules, if any, battery packs, solar panel, cable, connectors etc

All sensors are to be integrated with proper power supply in addition to self recording within system

The data logging system should have additionally two channels for future use

List of users with feedback from the customer

AMC and warranty condition is mentioned

Terms & Conditions:

1. The price should be inclusive of all taxes/VAT
2. Sealed quotation along with the literature and pamphlets should reach this office on or before **20.12.08**
3. Amount should be quoted in Indian Rupees.
4. As the equipment/Instrument is urgently needed for our research work, the firms who will be able to make immediate supply to **Central Institute for Cotton Research, Regional Station, Coimbatore – 3** should quote.
5. Envelops may please be super scribed with the word **“Quotation for Automatic Weather Station”**
6. Instruments/Equipment will be purchased from only those parties, who can ensure and undertake to provide the satisfactory after-sales-service within the country. The supplier should also ensure to offer a complete detailed package on back up support, prompt commissioning, after-sales-service including workshop backup, timely supply of spares, timely repair of equipments, proper training to Scientists/Technicians on use.
7. Guarantee/Warranty period offered and after sales service available should be clearly mentioned.
8. The make, quality and specifications may be stated in detail/must be as per details given by this office.
9. **In case supply is not made within a fixed period the office reserves the right to cancel the order.**
10. **The payment will be made only after completing delivery according to the specifications, quality and quantity given in the quotation/purchase order with in 30 days.**
11. Other terms and conditions of supply if any may also be stated.
12. Materials will be accepted only after giving satisfactory demonstrations.
13. The Project Coordinator & Head, CICR reserves the right to accept or reject one or all quotation/s without assigning any reason thereof.
14. The quotations, without the above desired information/received after the due date are liable to be rejected.

Project Coordinator & Head