

# CENTRAL INSTITUTE FOR COTTON RESEARCH

POST BAG NO 2, SHANKAR NAGAR POST OFFICE NAGPUR - 440 010

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{Location; Near Indian Oil Depot, Panjari , Wardha Road, Nagpur – 441 108}

F. No. ( 34)St/Auto. Weather Station/MVV/XI Plan/2008-09

Date: 18.12.2008

**Sub:** Quotation for the purchase of **Automatic Weather Station - Reg.**

Sir,

Sealed quotations are invited by the Director, Central Institute for Cotton Research for the purchase **Automatic Weather Station** as per the terms and conditions prescribed below:

The detailed specification is enclosed herewith

Specification	Rate (in Rs.)	Qty. Reqd.	Total Amount (in Rs.)
Automatic Weather Station Detailed specification is mentioned overleaf	@ Rs. each unit	one unit	Rs.

### Terms & Conditions:

1. The price should be inclusive of all taxes/VAT, etc.
2. Sealed quotation along with the literature and pamphlets should reach this office on or before **19.01.2009**.
3. As the equipment is urgently needed for our research work, the firms who will be able to make immediate supply **F.O.R., Central Institute for Cotton Research, Panjari Farm, Wardha Road, Near Khapri, Nagpur** should quote .
4. Envelops may please be super-scribed with the word "**Quotation for Automatic Weather Station**".
5. Instruments indigenous or imported 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 machines, proper training to Scientists/Technicians on use.
6. Warranty period offered and after sales service available should be clearly mentioned.
7. The supplier/firm should submitted Authorization Certificate from the Manufacturer/ Principal along with the Quotation.
8. The list of reputed laboratories using the quoted equipment should also be made available.
9. The make, quality and specifications in Quotation may be stated in detail/must be as per details given by this office.
10. The payment will be made only after completing delivery according to the specifications, quality and quantity given in the quotation/purchase order.
11. Other terms and conditions of supply if any may also be stated.
12. The Director, CICR, reserves the right to accept or reject one or all quotation/s without assigning any reason thereof.
13. The quotations, without the above desired information / received after the due date are liable to be rejected.

Yours faithfully

**Administrative Officer**

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## Central Institute for Cotton Research Nagpur

### Automatic weather Station: Specifications

A long term solar powered, stand alone monitoring system for meteorological parameters with programmable data loggers with a provision for multiple output intervals.

PC/ laptop based software to simplify data logger programming, DATA retrieval and report generation. Detachable data storage system and provision to store data for a minimum of 6 months. The specifications for the data logger and sensors are as follows:

1. **Data logger**- LED/LCD display, multi channel RS 232 interface, operating temperature range 0-50<sup>0</sup> C (or better), automatic reset, water and dust proof with locking system.
2. **Sensors**-
  - 2.1 Rainfall Sensor- Tipping bucket rainguage, resolution <0.5 mm, accuracy ±1mm
  - 2.2 Air temperature and relative humidity sensor-
    - a. Air temperature –Pt 1000 principle, Range-10 to 50<sup>0</sup> C or better, resolution- 0.1<sup>0</sup> C, accuracy ± 0.2<sup>0</sup> C or better
    - b. Relative humidity- Capacitance type Range-0-100% accuracy ±3%(10-90 % RH range), resolution 0.1%
  - 2.3 Wind speed and wind direction sensors
    - a. Wind speed – 3 cup rotor type , range 0-50 m/ Sec. or better , accuracy < 3% of full Scale
    - b. Wind direction – Vane type potentiometer Range 0-359<sup>0</sup> , Accuracy < ± 5<sup>0</sup>
  - 2.4 Atmospheric pressure sensor – Capacitive ceramic type – Range 600-1000m Bar or better accuracy ± 0.2 m bar
  - 2.5 Solar radition Sensor (Py ranometer) – Range 0- 1500 w/m<sup>2</sup> , accuracy ± 1% of full scale
  - 2.6 Soil temperature sensor – Resistance principle . Range -10 to 55<sup>0</sup> c, accuracy ± 0.2<sup>0</sup> c or better.

The weather station must have a Lightning protect

**Administrative Officer**