

**ICAR – National Research Centre for Banana
(Indian Council of Agricultural Research)**

Thogamalai Road, Thayanur P.O.

Tiruchirappalli – 620 102, Tamil Nadu, India

Phone : 0431-2618125 (30lines)

Email : director.nrcb@icar.gov.in; directornrcb@gmail.com; hoa.nrcb@icar.gov.in

An ISO 9001:2015 Certified Institute

GST No: 33AAHFN5656Q1ZM

F.No: 25(1)/2020-2021--SP/4751

Date: 03.02.2021

LIMITED TENDER ENQUIRY

Sub: Limited tender for “**Supply of Accessories required for installation of the Existing Automatic Weather Station at Physiology lab, ICAR – National Research Centre for Banana, Tiruchirappalli - Reg.**”


Please furnish your quotation in the enclosed schedule for the “**Supply and Installation of Accessories of Existing Automatic Weather Station at Physiology lab, ICAR – National Research Centre for Banana, Tiruchirappalli - 620 102, Tamil Nadu** as per the specification. Furnishing of the quotation is governed by the following terms and conditions.

1. The quotation should be submitted in a sealed cover and should reach this office on or before 17.02.2021- 15.00 hrs addressed to the **Director, ICAR – National Research Centre for Banana, Thogamalai Road, Thayanur (Post), Tiruchirappalli - 620 102**. The quotation received after the scheduled time will not be considered at all.
2. The envelope consisting the quotation should be superscripted as “**Supply and Installation of Accessories of Existing Automatic Weather Station at Physiology lab, ICAR – National Research Centre for Banana, Tiruchirappalli, Tamil Nadu**”. The quotation without superscription is liable to be rejected.
3. The right to accept the rates and supply the spares based on the quality and reputation of the firms rests with the DIRECTOR, ICAR - NRCB and it cannot be challenged. The DIRECTOR, ICAR-NRCB reserves right to accept or reject any one or all the quotation without any reason.
4. Quotation may be furnished for “**Supply and Installation of Accessories of Existing Automatic Weather Station at Physiology lab, ICAR – National Research Centre for Banana, Tiruchirappalli, Tamil Nadu**” as per the Annexure (PRICE BID)
5. No advance and any part payment will be made for this work.

6. During executing the work any loss/Hazard due to any reason for the men and materials will be borne by the contractor. The Institute will not be responsible for any loss or damage/Hazard.
7. While supplying the accessories / executing the work, the executing agency is fully responsible for any damage to Institute materials and the same may be replaced (including materials & labour charges for the replacement) by the Contractor at his own cost.
8. The work should be completed to the satisfaction of the authority concerned.
9. The bidder has to visit the site and get acquainted with the place and accordingly the items/units has to be quoted. The bidder is expected to visit the site which is mandatory during the specified days (ie) 08.02.2021 to 12.02.2021 between 10.00 hours to 16.00 hours to examine the existing Automatic Weather Station. The bidder is requested to quote all the accessories in addition to the list of items mentioned in enclosure which are also essential for the successful installation of the existing Automatic Weather Station.
10. The rates are to be quoted as per the specifications; no change in rates will be accepted after submission of the quotations.
11. For inspection of site, Dr.I.Ravi, Principal Scientist (Phone No: 0431- 2418125 Ext- 213), may please be contacted between 10.00 hrs to 16.00 hrs on all working days.
12. Payment will be made only after successful completion of the installation to the satisfaction of the authority concerned.
13. **EMD Payment:**

Earnest Money Deposit of Rs. 15000/- is to be paid only through online to the account of **ICAR Unit, NRCB** as per the bank details given below,

Account Name	:	ICAR UNIT-NRCB
Account Number	:	10848468903
Account type	:	Current Account
Bank Name	:	State Bank of India
Branch	:	Main Branch, Cantonment, Tiruchirappalli – 620 001.
IFSC	:	SBIN0000930
PAN	:	AAHFN5656Q


Assistant Administrative Officer
ICAR – National Research Centre for Banana,
Thogamalai Road, Thayanur Post,
Tiruchirappalli – 620 102.

PRICE BID

S.I No	ITEM DESCRIPTION	AMOUNT
01.	Accessories of Automatic Weather Station	
02.	GST	
TOTAL		

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03/02

Spares for Automatic Weather Station

1. AIR Temperature & Relative Humidity Sensors

RH/Precision Air Temp Sensors (2 K Thermistor) Fitted with 5 Meter Cable. Both Mounted in same solar radiation shield.

Air Temperature Sensor Spec :

Range : -10 to +105°C Accuracy : $\pm 0.1^\circ\text{C}$

Resolution : 0.1 Deg C

Sensor Type with Response time : 2 k Ω at 25°C (Thermistor)

10 Sec Response Time

RH Sensor Spec:

Range : 0-100% RH \pm

Accuracy : $\pm 2\%$ RH(h)

Resolution : 10 mV per %RH 0-1 V for 0-100%RH

Sensor Type with Response time : sensing element (chip) module-Capacitive type –Solid State

2. Combined Wind Speed and Direction Sensor with cable for AN-WD2 Sensor

3. Sunshine Sensor

For simultaneous outputs of total radiation, diffuse radiation and **Sunshine status** (Sun Shine Duration) Includes user manual, RS232 cable, Software and Manuals Disk. Other accessories (like cables/ wires etc.) to function this sensor and connects to data logger to get the data in real time basis.

4. Software to calculate evapotranspiration with Penman-Monteith equation with available data (relative humidity, wind speed, solar radiation, and air temperature) It should have capability to measure hourly and on daily basis using the available measurements of. Calculated ET can be recorded as hourly and daily values – and may be used in further bespoke calculations or to guide field irrigation decisions.

5. Data Loggers

It must have 12 Analog, 4 Event and 2 relay channels, 1 Wet Sensor (Digital Input Channel and inbuilt Interface with Software, USB Cable ,Quick Start Guide and Software and Manual.

6. GPRS Modem Box (must be internal battery powered) for use with GP2, GP1 and DL6 PRS Modem Gateway Box, Battery and Smart SIM Includes quad band GPRS modem, Smart SIM , 10Ah sealed lead acid battery and 1m comms and power extension cable. It must have antenna with mounting bracket /ground plane and 5m coaxial cable. Must be supplied with mounting kit for fixing to tubular masts or poles. Must connects GP2 Data Logger to GPRS Modem Boxes. Also directly links GP2 into GP1 cable networks.

Other accessories may be quoted as optional.

The size & length of the cables may vary as per the requirement of modem and sensors placements.

Refer