



KERALA AGRICULTURAL UNIVERSITY
FARMING SYSTEMS RESEARCH STATION
SADANANDAPURAM, KOTTARAKARA

No.FS(3)876/2019

Date:04.10.2021

TENDER NOTICE

Sealed competitive tenders are invited for the supply of equipments required for “**Portable Automatic Weather Station**” (Specification attached)

Sl. No.	Equipment	Quantity required (No.)	Cost of tender form (Rs.)
1	Datalogger	1	0.2% of the cost of tender rounded to the nearest multiple of 100, subject to a minimum of 400/- and maximum 1500/- + GST as applicable
2.	Air temperature & relative humidity sensor	1	
3.	Solar radiation sensor	1	
4.	Wind speed sensor	1	
5	Power supply	1	
6.	Mounting hardware	1	

Tender forms can be down loaded from KAU website (www.kau.edu/tenders). On submitting the tender form, the cost of the tender form as mentioned above may be drawn by DD in favour of “**Professor and Head , FSRS Sadanandapuram** payable at **State Bank of India, Pulamon Junction, Kottarakkara**

EMD @ 1% of the quoted amount should be as separate DD drawn at the same address along with an agreement executed in Kerala stamp paper worth Rs. 100/- should be enclosed with the tender. The name of the equipments for which the rate is quoted, notification number and date of opening of tender should be written on the top of the envelope. Sealed tenders addressed to “**Professor and Head, FSRS Sadanandapuram, Sadanandapuram P.O., Kottarakkara – 691 531**” should reach this office on or before 12.30 pm on 18/10/21 (Monday) and will be opened at 1.00 pm on the same day in the presence of such of the tenderers or their authorized representatives. The tenders received after the stipulated date and time will not be accepted in any circumstances. All terms and conditions prescribed for Government tenders as amended from time to time are applicable in this case also. The under signed has the right to accept or reject any or all tenders without assigning any reason thereof.

Further details can be had from the under signed during the office hours between 10.00 am and 5.00 pm (9249712194) and also through KAU web site.

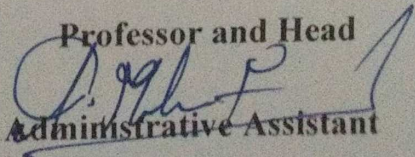
Terms and conditions:

- * The equipments should have a minimum of two year of manufacturer warranty and three year of AMC from the date of complete installation and not from the date of delivery.

- * The items should be delivered to "FSRS Sadanandapuram"
- * The products should be nationally / internationally branded and ISI / CE certified.
- * The firms or companies quoting the price should have service personals or centers or service support based in Kerala should have quote from manufacturer for the quoted model and the supporting document should be submitted.
- * The firms or companies quoting the price should submit the brochure for the model from the manufacturer including web link and the country of origin of the equipments.
- * The price quoted should be inclusive of all taxes, costs for clearance, transportations, loading and unloading etc.
- * The format of the agreement can be downloaded from the above website given in item 1. Firms who are exempted from payment of EMD should furnish copy of the currently valid certificate from the Store Purchase Department, Govt. of Kerala.
- * All Taxes, duty, freight etc. as applicable may be specified in the tender.
- * Rates quoted should be valid for a minimum period of 180 days from the date of opening the tender.
- * Users list of the equipments are to be enclosed while submitting the tender
- * The supplier has to make his own arrangement for the ordinary / special tools, machinery, and other consumables required for successful completion of installation and testing.
- * Copy of up-to-date GST registration certificate & PAN of the bidder
- * Supporting document regarding service support
- * Authorization certificate if the bidder is a dealer
- * Valid EMD exemption certificate from the Store Purchase Department, Govt. of Kerala, if the firm is exempted from payment of EMD'
- * Undertaking to the effect that the bidder is not Debarred/ Blacklisted or Banned from any University/ Government Institute / PSU.
- * Purchase Order and performance certificate of the quoted model of Equipment from three reputed customers, preferably University/ Government Institute / PSU, if any.
- * Delivery: Within **two weeks** from the date of receipt of purchase order.
- * The equipment should be delivered at the "**Professor and Head , FSRS Sadanandapuram, Sadanandapuram.P.O, Kottarakkara – 691 531**" at your own expenses and any packing, forwarding, freight, loading/unloading/handling or installation charges will be met by the firm.

On receipt of purchase order from this office, the tenderer should execute another agreement in Kerala Stamp Paper worth Rs.100/- (Rupees one hundred only) and furnish a security deposit of 5% of the cost of the equipments quoted in the form of term deposit / bank guarantee / demand draft drawn in favour of "**Professor and Head , FSRS Sadanandapuram payable at State Bank of India, Pulamon junction , Kottarakkara**"

Sd/-

Professor and Head

Administrative Assistant

Sl. No.	Item / instrument / equipment	Specifications
1	Datalogger	Minimum Scan Rate of 10Hz, Analog Inputs : 6, Pulse Inputs : 2, SDI Inputs : 2, Switched Excitation Voltage Channels : 2, Communication Ports : RS232 , USB, Input Voltage Range :-100 mV to +2500 mV, Analog Resolution : 0.23 Micro Voltage, Idle Current Drain, Average 1.5 mA (@ 12 Vdc), Active Current Drain, Average 5 mA (@ 12 Vdc for 1 Hz), Analog / Digital Bits : 24 Bit, Inbuilt Data storage for Two years with 1 Minute duration, Temperature Range : -40 to 70 Deg C, Power Requirements : 10 to 18 Vdc, Real-Time Clock Accuracy : ± 1 min. per month, Inbuilt Charge Regulator For Charging the battery from Solar Panel
2	Air temperature & relative humidity sensor	Air Temperature Sensor Details: Range: -40°C to $+70^{\circ}\text{C}$, Accuracy: $\pm 0.4^{\circ}\text{C}$ or better, Resolution : 0.001°C , Input Power Supply: 7V DC to 24V DC, Housing Classification -IP67, Output: Compatible with data logger Relative Humidity Sensor Details: Range: 0 to 100% RH, Output Compatible with data logger, Accuracy: $\pm 3\%$ or better, Housing Classification IP67. Input Power Supply: 7V DC to 24V DC, Operating Temp Range: -40°C to $+60^{\circ}\text{C}$
3	Solar radiation sensor	Spectral Range: 400 to 1100 nm, Measurement Range: 0 to 2000W/m ² , Sensitivity: 0.2 mV/W/m ² , Calibration Factor: 5 W/m ² /mV, Accuracy: $\pm 5\%$ for daily total radiation, Long-Term Stability: $< 2\%$ per year, Operating Temperature Range: -40° to $+70^{\circ}\text{C}$, Relative Humidity Range: 0 to 100%, Output: Compatible to Datalogger
4	Wind speed sensor	Wind Speed Range : 0-50 m/s, Type : 3 Cup Anemometer, Wind Speed Accuracy : $\pm 0.5\text{m/s}$, Wind Speed Thersold : 0.5 m/s, Output: Compatible to Datalogger
5	Power supply	SMF Battery 12V, 7 AH and Solar Panel of 20Watts
6	Mounting hardware	Enclosures Weather - Resistant 10 x 12 inch Enclosure, Includes suitable for datalogger with a power supply and one or more peripherals, Suitable Color (reflects solar radiation, reducing temperature gradients inside the enclosure without using a separate radiation shield)