



KERALA AGRICULTURAL UNIVERSITY
RICE RESEARCH STATION
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No. RRS/B/470/14

Date ,26.02.2021

QUOTATION NOTICE

Sealed competitive quotations are invited for the purchase of “ Multiparameter water quality analyser,pH meter and EC/TDS meter” for the AICRP (SAS & USW) Project. The quotation is to be forwarded to the Asst. Professor & Head, Rice Research Station, Vyttila P.O, Cochin 682019, with the superscription “Quotation for Multiparameter water quality analyser,pH meter and EC/TDS meter” on the envelope. The specifications are given below.

Multiparameter water quality analyser

Microprocessor based portable analyser with magnetic stirrer

1. Direct measurement of pH, EMF, Temperature, EC, Total Dissolved Solid (TDS), Dissolve Oxygen (DO), Sanity, Colorimeter (Abs & %T) and Turbidity in Water Sample one at a time.
2. **Data Presentation** – 2 Lines 16 Character Dot Matrix LCD Modules.
3. **Operations**- Rechargeable Battery and Mains Supply.
4. **pH** : Range – 0 -14, Readability – 0.001,Accuracy - ± 0.001 , Repeatability - ± 0.001
5. **EMF** (mv) : Range - ± 1999.9 , Readability – 0.1, Accuracy - ± 0.1 , Repeatability - ± 0.1
6. **Temp** : Range – 0-100°C,Readability - ± 0.1 , Accuracy - ± 0.5 , Repeatability - ± 0.1
7. **EC** : Range – 0 to 200mS (5 ranges), Readability – 0.05% of range , Accuracy - $\pm 1\%$ of range , Repeatability - $\pm 0.5\%$ of range
8. **TDS** : Range – 0 to 100 ppt 5 ranges with PDS factor 0.5, Readability – 0.05% of range , Accuracy - $\pm 1\%$ of range, Repeatability - $\pm 0.5\%$ of range
9. **DO** : Range – 0 – 20, Readability – 0.1, Accuracy - ± 0.1 , Repeatability - ± 0.1
10. **Colorimeter** : Range - ± 2 Abs & 0 to 100 % T, Readability – 0.001, Accuracy - ± 0.05 Abs, Repeatability - ± 0.01 Abs
11. **Turbidity** : Range – 0 to 100 NTU, Readability – 0.1, Accuracy - $\pm 2\%$, Repeatability - $\pm 0.1\%$
12. **Salinity**: Range – 0 to 40 ppt, Accuracy - $\pm 1\%$, Temp. Compensation – 0 to 50 °C, Sensor - ISE Chloride (Optional Accessory) & RE – BNC Type
13. **Standard Accessories** - CE, Dip type Conductivity Cell of 1.0 Cell Constant, Do Probe, Thermo Probe, Magnetic Stirrer, Mains operated Electromagnetic Stirrer GI 631, Stirring Capsules, Electrode Stand with holding Clamp, Gas permeable membranes and 10mm & 30mm Test Tubes.

14. **Warranty:** 1 Year with periodic preventive inspection every 3 months during the warranty period

pH meter

1. Microprocessor Based pH Analyser with Printer Interface, Open Calibration Option, Programmable Calibration upto 3 Points for pH with Memory Backup, and direct measurement of pH, EMF and Temperature.
2. Range – 0 to 14 pH, ± 2000.00 EMF(mV), 0 to 100 Temp ($^{\circ}$ C)
3. Readability – 0.001 pH, 0.1 EMF(mV), 0.1 ($^{\circ}$ C)
4. Accuracy - ± 0.001 pH, ± 0.1 EMF(mV), ± 0.2 ($^{\circ}$ C)
5. Repeatability - ± 0.001 pH, ± 0.1 EMF (mV), ± 0.1 ($^{\circ}$ C)
6. Temperature Compensation – 0 to 100 $^{\circ}$ C Auto/ Manual
7. Data Presentation – 2 Lines 24 Character Dot Matrix Backlit LCD Module.
8. Accessories – Electrode, Stand with holding Clamp, Buffer Tablets, Sample containers and RTD Probe.

EC-TDS meter

1. Microprocessor Based, Auto Ranging EC-TDS Analyser, Automatic/Manual Temperature compensation from 0 to 50 $^{\circ}$ C and direct measurement of EC at 25 $^{\circ}$ C.
2. Range – EC- 0 to 200 mS, Resolution- 0.05% of Range, Accuracy- 1% of Range Repeatability-0.05%
3. Range – TDS – 1ppm to 100 ppt, Accuracy – 1% of Range
4. Data Presentation – 2 Lines 16 Character Dot Matrix Backlit LCD Module.
5. Temperature Compensation – 0 to 50 $^{\circ}$ C Auto/ Manual
6. Accessories – Stand with Cell Holding Clamp, Thermo Probe.


Terms & conditions

1. The quotation should include all costs. It would be placed in a sealed envelope and addressed to the Assistant Professor & Head, Rice Research Station, Vyttilaon or before 08.03.2021 at 12.00 Noon. Late Quotations will be rejected. The quotation will open on 08.03.2021 at 12.30 PM. The envelop should be superscribed as “Quotation for Multiparameter water quality analyser, pH meter and EC/TDS meter”
2. The EMD is 2.5% of quoted amount. The EMD of all bidders except those in whose favour the quotation is confirmed will be returned soon after the quotation process is over. The EMD of those in whose favour the quotation is confirmed, will be converted as Security Deposit and released after the quotation period on recommendation of the concerned officer.
3. The successful quotationer will remit 5% of quoted amount as security deposit and execute an agreement in Kerala Stamp Paper worth Rs. 200/-

4. If the lowest rate offered is found reasonable in comparison with the local market rate, the quotation will be confirmed for that rate provided all conditions are met.
5. The person /firm against whom the quotation is confirmed should supply the item within 7 days of receiving the supply order.
6. The payment of cost of the item will be made by cheque based on the invoice of the supplier.
7. The decision of the undersigned will be final in connection with this quotation and all the terms and conditions applicable to government quotation will be in force in this quotation also.
8. The undersigned have the right to accept or reject all the quotations without informing the reason.

Enquiries if any may be mailed to rrsvyttila@kau.in




Asst. Professor & Head

Copy to :1. Dr. Sreelatha A K, Assistant Professor
2. Notice Board / web@Kau