



**KRISHI VIGYAN KENDRA**  
**KOTTAYAM**  
**KERALA AGRICULTURAL UNIVERSITY**  
**Kumarakom, Kottayam - 686 566**



No. KVK/436/2020

Dt:28.01.2022

**QUOTATION NOTICE**

Sealed competitive quotations are invited by the undersigned for the supply of following equipment under the Project 'Establishment of soil health management cum crop nutrient deficiency diagnostic centre for the dissemination of soil test based INM technology' as per the specifications and terms & conditions detailed below.

Sl No.	Item	Quantity	Specifications
1	<b>Flame Photometer</b>	1 No	<ul style="list-style-type: none"><li>• Micro-controller based automation</li><li>• Up-to five-point calibration</li><li>• Data processing with linear mode or quadratic curve fitting</li><li>• Storing facility for Set-ups and results that can be recalled whenever need arise</li><li>• Graphics LCD read out (240x128 Dot or 5")</li><li>• Auto ignition</li><li>• Gas leak sensor</li><li>• Auto gas cut off</li><li>• Built in real time clock for date and time of analysis</li><li>• Air compressor with built-in air regulator and air filter</li><li>• <b>Elements analyzed</b> :Na<sup>+</sup>, Ca<sup>+</sup>, K<sup>+</sup></li><li>• <b>Sodium and potassium:</b> 10ppm in low concentration mode and 100 ppm in high concentration mode</li><li>• <b>Calcium:</b>100ppm in low concentration mode and 300 ppm in high concentration mode</li><li>• <b>Sensitivity of calibration:</b> <b>Sodium-</b> Minimum (ppm)-0.2 Maximum (ppm) – 100 <b>Potassium</b></li></ul>

			<p>Minimum (ppm)- 0.1 Maximum (ppm) – 100</p> <p><b>Calcium</b> Minimum (ppm)- 3 Maximum (ppm) -300</p> <ul style="list-style-type: none"> <li>• <b>Curve fitting Accuracy:</b> ± 2.0% of Full scale</li> <li>• <b>Reproducibility:</b> Low Conc.: ±1% f.s.; High Conc.: ± 2% f.s.</li> <li>• <b>Filters :</b> (Interference filters with 10 nm Bandwidth): Na, K and Ca</li> <li>• Separate channel and separate silicon photodiode detector for each element</li> <li>• <b>Operating Air Pressure:</b> 0.45 kg / cm<sup>2</sup></li> <li>• <b>Air Compressor:</b> With built-in air regulator and air filter to deliver stable and moisture / oil free air supply with pressure of 1kg/ cm<sup>2</sup></li> <li>• <b>Fuel Gas:</b> LPG</li> <li>• <b>Power Supply:</b> 230 V ac ± 10%, 50 Hz.</li> <li>• <b>Warranty:</b> One year</li> <li>• Accessories: Glass beaker 10 Number, Compressor, Gas valve, Instruction manual</li> </ul>
2	<b>Muffle Furnace</b>	1	<ul style="list-style-type: none"> <li>• Electric furnace with light weight and fast heating system</li> <li>• Body made of thick mild steel sheet insulated with ceramic wool to reduce heat loss</li> <li>• Maximum temperature- 1000°C</li> <li>• Working temperature- 900°C controlled by micro processor based digital temperature controller cum LED indicator</li> <li>• Fitted with thermal fuse and thermocouple with ceramic wool insulation</li> <li>• Suitable to work on 230V AC supply</li> <li>• Chamber size- 15x 15x22 cm</li> </ul>

	<b>Water bath</b>	1	<ul style="list-style-type: none"> <li>• Double walled construction, outer made of M.S. powder coated.</li> <li>• Inner body made of Stainless steel quality sheet, with glass wool insulation</li> <li>• Fitted with Thermostat (30°C to 110°C).</li> <li>• Suitable to work on 230 V AC supply.</li> <li>• Suitable to accommodate containers of various size removable type concentric rings are provided on hole diameter of 75 mm.</li> </ul>
	<b>Yoders apparatus</b> (Wet sieve shaker)	1	<ul style="list-style-type: none"> <li>• Consists of a water reservoir and a holder for sieves, with 7 sieves of 8mm – 0.1mm (8, 5, 2, 1, 0.5, 0.25, 0.1mm) range</li> <li>• Shaker is driven by a ¼ H.P motor through a belt drive</li> <li>• Shaker mechanism moves the sieves up and down in the reservoir.</li> <li>• The reservoir has a water outlet for draining out the used water.</li> <li>• Suitable for operation 230V A.C. Single Phase.</li> </ul>

Last date & time of receipt of quotation

**08.02.2022 at 11.00 am**

Date & Time of opening of quotation

**08.02.2022 at 12.30 pm**

### **Terms and conditions**

1. The quotation should be in the sealed cover, addressed to the ‘**The Professor & Head, Krishi Vigyan Kendra, Kottayam**’.
2. The envelope should be super scribed as: "Quotation for purchase of -----  
-----at KVK Kottayam’ as per quotation notice no. -----  
-----dated -----"
3. The last date for submission of quotation is on 08/02/2022 **at 11.00 am**. Quotation will be opened at **12.30 pm** on the same day in the presence of those bidders who are present at that time.

4. The rate quoted should be inclusive of F.O.R. and installation charges.
5. The rate quoted should also be inclusive of all taxes. **We are eligible for GST at concessional rate envisaged for Research purposes.**
6. The quotation should be accompanied by Earnest Money Deposit (EMD) of 1% of the cost of the quoted items by way of crossed Demand Draft drawn in favour of **The Professor & Head, Krishi Vigyan Kendra, Kottayam payable at State Bank of India, Kumarakom Branch** (IFSC Code: SBIN0070116).
7. Late and incomplete quotation and quotation without EMD will not be accepted. Firms who are exempted from the payment of EMD should furnish copy of the currently valid certificates from Stores Purchase Department, Govt. of Kerala.
8. The lowest rate offered as per the specifications will be accepted if reasonable.
9. Dealers are to produce document for authorized dealership
10. The item should be supplied within 3 weeks on receipt of supply order issued from this office.
11. The payment will be made through invoice by treasury payment only to the bank account of the supplier.
12. The decision of the undersigned will be final in connection with this quotation and all the other terms and conditions of government quotations in force will be applicable in this quotation also.

**Sd/-**  
**Programme Co-ordinator**