

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES

GA7/3891/18	07/2018	Panangad, Dated : /

TENDER NOTICE

Sealed Competitive limited tenders are invited for the supply of “**Laboratory Equipments for the Plan Projects under CAAHM.**”

The particulars / specifications are attached:

1. Rotary Vacuum Flash Evaporator
2. Bacteriological Incubator
3. Laminar Air Flow chamber Horizontal
4. Table Top micro refrigerated centrifuge

Last date & time for receipt of tender	26.7.18	11am
Date & time of opening of tender	26.7.18	11.30am

The envelope containing the Tender should bear the superscription “**Tender for the supply of “Laboratory Equipments for the Plan Projects under CAAHM: GA7/3891/18”** and should be sent to the Registrar, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi – 682 506, Ernakulam District. Intending firms/individuals can submit their tenders in the tender form downloaded from the official site of KUFOS with detailed specification, tender cost of Rs.800+12% GST and EMD for Rs.3,700/- by means of Demand Draft drawn in favour of the Finance Officer, KUFOS, Panangad, Kochi payable at State Bank of India, Vyttila along with the offer. More details will be available in the office of Dr. Devika Pillai, Assoc. Prof and Dr. Rejish Kumar V J, Asst. Professor on all working days with the permission of undersigned. As per DSIR registration, necessary exemption can be availed for customs & excise duties for the purchase. The University is eligible for relaxation in GST as per Notification No.45/2017 Central Tax (Rate) dated 14.11.17. Our GST Regn. No. is: 32AAAGK0031Q1DU.

The rate quoted should be firm and inclusive of all taxes. Period of firmness during which the rates would be firm is 60 days from the date of work orders.

All the terms and conditions applicable to University/Government quotation/Tenders are admissible to this also. Right to accept the Tender in full or in part or to reject without assigning any reason whatsoever is reserved with the undersigned.

REGISTRAR

To

Firms

Copy to: NB/Computer Engineer/ Dr. Devika Pillai/ and Dr. Rejish Kumar V J /Spare





The particulars / specifications are:

SL.NO	Equipment	Specification
1	Rotary Vacuum Flash Evaporator	<p><u>Main Unit:-</u> Comprising of AC non Sparking drive unit, support stand fitted with jack arrangement on SS rod, continuously variable speed regulator, thermostatically controlled water bath, double coil glass condenser, pear shaped evaporating flask cap, 800ml, 1000ml receiving flask with ball joints, feeding tube and vapour path tube, with Teflon, rubber seals for maintaining complete vacuum.</p> <p><u>Vacuum Pump:-</u> A membrane vacuum pump designed to handle most vacuum applications, able to be used with gel drying, vacuum concentrators, vacuum ovens, distillation and rotary evaporation equipment.</p>
2	Bacteriological Incubator	<p>Capacity: 91L Electric Supply: 230 VAC, 50 Hz, single phase Heater Power: 0.4kW Temperature Range: Ambient +5 to 70.0°C Timer: 0 to 9999min Control Accuracy: $\pm 0.2^{\circ}\text{C}$ Uniformity: $\pm 0.5^{\circ}\text{C}$ Control: Digital PID Temperature Controller with Timer, alarms and auto tuning Inner Dimensions (WxDxH): 450 x 450 x 450mm Outer Dimensions (WxDxH): 640 x 690 x 800mm Packing Dimensions (W x D x H): 970 x 810 x 990mm Shelves: 2 Gross Weight : 75kg</p>
3	Laminar Air Flow chamber -Horizontal	<p>Chamber Material: Back and side walls: cold-rolled steel; Work table: Stainless Steel: 304 HEPA Filter: H14. 99.999% efficiency at 0.3um Air Flow Velocity: Approximate 0.3 m/s ~ 0.5m/s Air Cleanliness: Class 100 Vibration: Half Peak $\leq 5\mu\text{m}$ Illumination: $\geq 350\text{lx}$ Fluorescent Lamp: 21W\times1 UV Lamp: 18W\times1 Display: LED Control System: Microprocessor control Work Surface Height: 750mm Front Window: Manual, 5mm toughened glass, anti-UV Noise Level: $\leq 60\text{dB(A)}$ Max Opening: 350 mm Caster: Universal wheel with levelling feet Standard Accessory: Fluorescent Lamp\times1, UV Lamp\times2, Base Stand HEPA Dimension: 900x450x50 mm Inner Dimension: 940x540x545 mm Overall Dimension: 1040x615x1770 mm Packing Dimension: 1190x890x1340 mm Weight (N.W/G.W): 120/150kg Power: 350W</p>



		Power Supply: 220 V, 50/60 Hz
4	Table top micro refrigerated centrifuge	<p>Rotor with lid for 24x 2ml, 12 x 0.5ml PCR and 12 x 0.2 ml PCR tubes</p> <p>Maximum speed: 15,000rpm Maximum RCF: 20,630xg Maximum capacity: 48mL Control system: Microprocessor control, Speed, RCF, Time, Temperature, TEMP LIMIT, Pre-cooling, FLASHING, Acceleration & Deceleration, Memory (three channels) Alarm display: Lid open, Imbalance, Over speed, Function for detecting an occurrence of electrical abnormality in speed sensor, inverter, lid interlock, motor, abnormally high temperature Acceleration/Deceleration: Rapid, Slow, 4 ways of switching Speed setting: From 300 to 15,000rpm, 100rpm increments Speed indication: Digital display, from 0 to 15,300rpm, 100rpm increments RCF setting: From 100 to 20,630xg, 100xg increments RCF indication: Digital display, from 0 to 21,400xg, 100xg increments Timer Setting Range: From 1 second to 99 seconds in 1 second increments From 1minute to 99 minutes in 1 minute increments Hold Temperature setting and indication: Digital display, 1°C increments setting and indication <input type="text"/> 1°C increments setting from -9°C to 40 °C. 1°C increments indication from -9°C to 43°C. Refrigerant: R134a (CFC free) Setting the Sound that notify the end of the operation : 5 kinds and Sound none Power consumption and heat output: 550W 2.0MJ/h</p>