

**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES**

**SAFPT/004(a)/17**

**Panangad, Dated : 11/08/2017**

**TENDER NOTICE**

Sealed Competitive quotations are invited for the supply of **Laboratory Equipment for the School of Aquatic Food Products and Technology**. Date of tender is as follows.

Last date & time for receipt of quotation	<b>22.08.2017</b>	<b>11.00 AM</b>
Date & time of opening of quotation	<b>22.08.2017</b>	<b>11.30 AM</b>

The particulars / specifications attached herewith.

The envelope containing the Tender should bear the superscription “**Tender for the supply of various Biochemical equipments to the Department of processing Technology**”, should be sent to the Dean, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi – 682 506, Ernakulam District. Intending firms/individuals can submit their Tenders in the prescribed proforma available in the official site of KUFOS ([www.kufos.ac.in](http://www.kufos.ac.in)) with detailed specification, Tender fee for Rs 1000/- and EMD @ 1% by means of Demand Draft drawn in favour of the Finance Officer, KUFOS, Panangad, Kochi payable at State Bank of Travancore, Vyttila along with the Tender. More details will be available in the office of School of AFPT on all working days with the permission of undersigned.

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

**DIRECTOR**

To

Firms

Copy to: NB/Computer Engineer/Director SAFPT & UT/Spare

## 1. MULTIPURPOSE MICROFUGE

- Compact centrifuge for speed up to 17,500 rpm
- Relative Centrifugal for RCF: Max.30,130 x g
- Basic machine supplied along with IVD License
- Dials and digital display for easy setting
- Acceleration time to max.rpm : <14 s
- Should have 50 programs memory capacity
- Rotor should run with or without lid
- Automatic rotor recognition with speed limitation
- SOFT break function for smooth stopping of rotor
- Capability of running 8 PCR Strip or 24 position spin columns
- ECO shut-off function (Automatic switch-off after particular time)
- Facility for pre-setting the programme via date & time to have the centrifuge refrigerated and ready to use at the pre-selected time.
- Built-in condensation drain to eliminate water accumulation & prevent corrosion.
- Brushless motor
- Automatic imbalance detections for customer safety
- Autoclavable rotors
- Separate Short Spin Key
- 6 x 15/50ml conical or 12 x Vacutainer tubes with 7830 rpm (7,745 x g)
- Should accommodate following rotors
- Aerosol – tight rotor for 30 X 1.5,2ml tubes
- Rotor for Cryotubes
- 5ml rotor
- Swing bucket rotor for MTP & PCR plates
- Motorized lid latch

## 2. Autoclave

Top end model for sterilization of all critical application with exact reproducibility Unique double wall design Heavy duty jacket

Fully automatic operation  $\mu$ P based PID controller with dual display for Temp. & Time Pre & Post Vacuum available Excellent performance in drying Reduced loading height

## 3. THERMOMIXER

- Dry block for incubation and mixing
- Should be accommodate Interchangeable blocks for Eppendorf tubes, 4 slides (for Hybridization experiments) MTP plates, Test tubes, Falcon tubes (15ml and 50ml), cryo tubes, PCR plates and PCR tubes(0.5ml, 1.5ml, 2ml, 5ml)
- Temperature control range: From 15° C below RT to 100° C
- Temperature settings: From 1° C/100°C
- Heating speed: 7°C/min
- Mixing frequency : 300 – 3000 rpm
- Cooling speed: 2.5° C/min between 100°C and RT
- Timer : 15 secs to 99:30h, continuous

- Active counter cooling facility
- Ability to set time, temperature and mixing frequency
- Short mix function
- Device control and documentation according to GLP over RS 232 Interface
- Ten different exchangeable thermoblocks offer a high degree of flexibility
- Smart block for 24 x 1.5ml