

**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES**

**SAFPT/004(b)/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. TLC Plates

EPI-UV Source : 254nm 8 Watts X 2 Tubes, 365nm 8 Watts X 2 Tubes

EPI-VIS : Fluorecent 8 watts X 2 Tubes

Speed Controller : Knob Control (Analog)

Input Voltage : 230V 50Hz AC Supply

Fuse : 2 Amp

UV Darkhood Metal Cabinet With Powder Coated

Nitrile Sheet for Anti Corrosion and to Visualize Strips

Plates – 2 sets

## 2. Western Blot

Mini Wide Modular system: capillary module + electroblotting module + 2 sets of glass plates with bonded 1 mm thick spacers + 2 combs, 1 mm thick, 24 samples + cooling pack + dummy plate + casting base + 100 capillary tubes (1 mm int. diameter) + blank- ing plugs + 3 compression cassettes 20 x 10 cm + 6 fibre pads, Power basic, transblot

## 3. Hot plate

11" Dia round hot plate with energy regulator

Body constructed out of Mild Steel Sheet duly powder coated, supplied with cord and plug to work on 220/230VAC [Temperature range 250°C-300°C] 1250 watts

## 4. HOT AIR OVEN

- Chamber Volume: 105 Liters
- Footprint should not exceed : 0.36m<sup>2</sup>
- The ovens should have mechanical convection
- Temperature Range 50° C to 250° C
- Temperature Deviation at 150°C : ±2.5°C for 100 liters units
- Temperature Deviation over Time at 150°C : ±0.3°C
- The Inner chamber should be made of AISI 430 / 1.4016 Stainless Steel
- The Ovens should have an automatic over temperature alarm
- The ovens interior should have rounded corner for ease of clean and better contamination control
- The system should have shelving system that can be fitted inside the chamber with just one click
- The ovens interface should be microprocessor controlled and should be a vacuum fluorescent display with touch button control.
- The oven should be provided with 2 shelves as standard and should be capable of accommodating a maximum of 16 shelves
- Each of the shelves should be capable of accommodating a load of 25 Kg
- The oven should have a manual damper for venting out the chamber air
- The ovens should be covered with 2 years of warranty
- The oven should have RS 232 interface providing data logging capability
- The ovens should be stackable with optionally available stacking kit

- The ovens should have the basic on/off timer to automate on and off cycle after a preset time.
- The door should be able to open at 180° angle for complete access to chamber interior.
- The ovens should have optional accessories like additional shelf, stacking kit and support stand with castors
- The ovens should be able to operate at 230 V / 50 Hz

## 5. Sonicator

Handheld and Stand mounted with base plate, Power 120 to 750 Watts ultrasonication, Instrument operating Voltage: 220-240 V, 50 Hz, Frequency: 20kHz-30kHz, Automatic Frequency Tuning, Amplitude adjustable from 20 to 100%, pulse adjustable from 0 to 100%. Colored touch-screen & Digital control, Timer, Temperature Probe and Power meter, In-built software for data transfer. Automatic Data recording, dry running protection, IP41 grade. Probe horn dia- 2 mm- 20mm., Process sample volume (2ml to 250ml)

## 6. Laminar air flow

0.3 microns HEPA Filters, 99.997% filtration efficiency, work table made by Stainless steel, Fitted with static pressure Indicator (Manometer ). Sterilization through UV Germicidal Tubes Size 2" x 2" x 2" or 4" x 2" x 2".  
Body Type: MS Powder Coated or Stainless Steel.

## 7. Air conditioner

**Capacity:** The machine runs on Hermetically Sealed 1.5 Ton Rotary Compressor Cooling Capacity of this compressor is 5.2 kW. **Design:** This almond white toned split AC comes in a luring body design with spun finished edges that radiate a softer look. For convenient wall-mounting, the unit has been given a highly compact body structure. Front LED Panel gives clear view of temperature. The indoor unit of the machine measures 1100 x 239 x 310 mm (W x D x H) and weighs 13 Kg. Outdoor part has dimension of 845 x 300 x 595 mm (W x D x H) and weight of 41 Kg.

**Control:** The main unit is coupled with a smart and easy-to-operate Remote Control. Glow buttons on the remote helps you to operate the device without switching on the light.

**Speed of Cooling:** Innovative Coanda Airflow spreads cool breezes at every corner of the room and offers uniform cooling throughout the place. R-32 refrigerant gas has higher cooling capacity with longer temperature retention property. **Other Features:** There are some useful features coming with this split AC like Auto Restart, Auto Air Swing, Dehumidifier etc.