

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.

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| Last date & time for receipt of quotation | 20.04.2017 | 11.00 AM |
| Date & time of opening of quotation | 20.04.2017 | 11.30 AM |

The particulars / specifications attached herewith.

The envelope containing the Tender should bear the superscription "Tender for the supply of PCR and Refrigerated Centrifuge for School of Aquatic Food Products and Technology, 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 prescribed proforma available in the official site of KUFOS (www.kufos.ac.in) with detailed specification, Tender fee for Rs900/- 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

PCR specifications

- Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with Peltier heating and cooling.
- Should have gradient capability
- Should have the feature of dynamic ramping (identical hold times) for all the 8 rows of a gradient.
- Should have a temperature differential range of 1-25degC.
- Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.
- The touch screen should be responsive for both gloved and ungloved fingers.
- Should be capable of running reaction volumes from 1-100ul.
- Should have a maximum ramp rate of 4 degC/second with an average ramp rate of 2.5degC.
- Should have a temperature range of 4-100 deg C
- Should have a gradient range of 30-100 deg C
- Should have a temperature accuracy and uniformity of ± 0.5 deg C
- Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files.
- Should have block and calculated temperature control modes.
- The software should have exportable Run logs and system error logs
- Should have quick boot up time of not more than 1 min.
- Should be quiet in operation.
- System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.
- Should have the feature of "instant incubation" to keep samples at constant temp. for ligation and restriction digests.
- Should have power save mode.

Should come with suitable UPS and required consumables should be provided

Specification for Refrigerated Centrifuge:

1. Centrifuge with speed up to 17500 plus rpm and 30000 plus g force,
2. Acceleration/Deceleration: 2
3. Temperature: -10°C to 40°C; Timer range: 9h, 99 min + continuous is preferred,
4. Chamber should be made of stainless steel, sound level should be less than 57dBA, bucket lids for swing out rotors must operate in a safe manner without spring clips or metal components, buckets and rotor sealing lids must be certified for bio-containment.,
5. Centrifuge have option to spin swing out rotors, fixed angle rotors, micro liter rotors, PCR strip rotor and micro plate rotors, microprocessor controlled along with direct brushless induction drive, with option for 2 or more direct access programs along with password protection is preferred.
6. Rotor should be Capable of holding 6x50ml tubes having more than 9000 rpm with 12000xg, 6x15ml tubes having more than 9000 rpm with 12000xg, pre cooling function
7. Fixed Angle Rotor should Capable of running 24x1.5/2ml not less than 17500rpm with 30000 plus Xg,
8. It should have a feature to install and remove rotor without tools with a push of a button for quick and easy change of rotors for different applications,
9. Short /pulse run option should be there.
10. Certifications: UL Listed / CE marked / IVD compliant/ certified Biocontainment.