QUOTATION NOTICE

Quotations are invited from various firms for the following laboratory equipment as per the specifications mentioned. The quotations in the sealed covers addressed to the Professor & Head, Department of Biochemistry, University of Kerala, Kariyavattom, 695 581 should reach the department on or before 06.08.2015, 11.A.M.

Item

1. Shaker Incubator

   General: Microprocessor controlled Incubator Shaker

Temperature Range

1. Temperature control range from 5°C above ambient to 60°C control accuracy ±0.1°C.
2. Should be able to maintain specified temperature for prolonged operation

Shaking Features:

1. Electronically controlled shaking mechanism provides quiet operation. Brushless motor is preferable to avoid costly maintenance and noise less.
2. Type of shaking: Orbital. But having any additional feature is advantageous.

3. Speed: 20-200 rpm with control accuracy of ± 5 rpm

4. It should have acceleration/deceleration circuit prevent sudden starts/stops to eliminate flask closure wetting which would otherwise interfere with oxygen transfer.

5. It should have timer of up to 99.9 Hrs.

**Display**

1. Large easy to read display screen clearly indicates speed, running time, alarm condition and temperature character.

2. Display is clearly visible from all angles across the room, and in the dark.

**Safety Features**

1. There should be over temperature protection.

2. Preferably there should be a option to mute the audible alarms.

3. The system should have an appropriate port for Data Logging.

4. The system should have facility to calibrate the temperature and speed via keypad.

5. Electronic and mechanical components should be enclosed, protected from accidental spills.

6. It should have automatic restart after power interruption with non volatile memory.

7. It should have open lid cut out switch stop agitation when chamber is open.

**Essential Accessories**

1. It should come with Universal Platform having capacity to hold assortment of various size of flask sizes upto 2-3 Ltrs.
2. System should be supplied with 250 ml clamps (5 Nos.), 500 ml clamps (05 Nos.), and 1000 ml (02 Nos.)

3. It should be supplied with compatible stabilizer for smooth operation

**Essential Certification and User List:**

1. Certificates, clearly indicating the make, model and name of the equipment are to be enclosed.

2. The quote should have the List of the user of the quoted equipment/model (with valid phone number, email ID)

**Warranty**

1. Should have two year standard warranty/from the date of installation

2. Should quote for the price of CMC/AMC per year after the expiry of standard warranty.

Sd/-

Professor & Head