



Tender No – 2015/FIST/5

PURCHASE OF LAB EQUIPMENTS FOR ZOOLOGY

[Kindly enclose a signed copy of this document along with the TENDER Document]

ITEMS

1. TWO BED DEMINERALISER
2. DESICCATORS
3. EGG INCUBATOR
4. HEATING MANTLE
5. ROTARY MICROTOME
6. ROTARY SHAKER
7. SHAKING INCUBATORS
8. PARAFFIN EMBEDDED BATH
9. DIGITAL pH METER
10. UV VISIBLE SPECTROPHOTOMETER
11. NEPHLO TURBIDITY METER
12. CYCLO MIXER
13. RESEARCH MICROSCOPE
14. DIGITAL CAMERA WITH ADAPTER FOR MICROPHOTOGRAPHY
15. MAGNUS-PRO IMAGE ANALYSIS SOFTWARE
16. DATA PROCESSING SYSTEMS FOR BIO-INFORMATICS TOOLS

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To purchase Tender from contact Dr. Hysen Thomas, Assistant Professor, mob: 9446974398, email: hysenthomas@gmail.com

The soft copy of TENDER FORMS can be obtained by contacting Dr. Hysen Thomas. . In such cases separate DD for the cost of Tender forms and EMD drawn in favour of Principal, Christian College, Chengannur payable at CANARA Bank Chengannur, Alappuzha District Kerala should be enclosed with the Tender Document.

Tendered Amount: Rs. 10.66 Lakhs.

Cost of Tender Form: Rs. 1,600/- + Rs. 64/- (VAT) (0.15 % of Tendered Amount and 4 % VAT)

EMD: Rs. 10,660/- (1 % of Tendered Amount)

Last Date of Sale of Tender Forms: 10/10/2015 02:00 pm

Last Date of Submission of Tenders 10/10/2015 04:00 pm

Date of Opening Tender: 11/10/2015 10:00 am at Audio Visual Room, Christian College,
Chengannur

**EQUIPMENTS TO BE PURCHASED UNDER FIST GRANT
EQUIPMENTS FOR TEACHING LEARNING SUPPORT**

1. **TWO BED DEMINERALISER**
Columns with high exchange capacity cation and anion resin with prefilter, 100 Litres/hour output capacity, Deionized, or demineralized water having conductivity of less than 10 micro Siemens/cm. and pH or 7.5 to 9.5. Housed in corrosive proof steel chamber.
2. **DESICCATORS**
Vaccum dessicator with cover, 240 mm, with thick and heavy walled with tabulated cover, Stop cock and spindle, with porcelain plate.
3. **EGG INCUBATOR**
Double walled chamber, inside stainless steel sheets, Capacity to hold 50 Hens eggs, with air Circulation Fan, Digital Electronic Temperature Controller with sensor, temperature range 5°C- 70°C and controlled by capillary type thermostat, Automatic turning of egg by powerful Servo Motor, digital humidity level controller, Power Supply Unit 220 - 230volt, 50 Hz, 0.5A max.
4. **HEATING MANTLE**
Controlling system consists of Energy Regulator & Pilot Lamp. Max. surface Temperature, 400°C with 220-230V power supply, flask sizes 500 ml- 5L. Heating cords stitched in glass yarn knitted cloth.
5. **ROTARY MICROTOME**
For paraffin embedded tissue sectioning, Slice thickness 1-25 µm, max slice section 35× 25mm horizontal specimen stroke 35mm, horizontal specimen stroke 46mm.
6. **ROTARY SHAKER**
Orbital diameter of 25 mm and shaking speed of 20-250 rpm with speed regulator, digital speed meter, additional trays.
7. **SHAKING INCUBATORS**
Capacity 16 Conical Flask × 500 ml, Constructed of double walls, the exteriors made of Steel, with air circulators, Chamber Illumination with Ultra Violet Lamp - 2 Nos, 24 hrs.Cyclic Timer for illumination, Automatic Voltage Stabilizer 3 KVA for the incubator.
8. **PARAFFIN EMBEDDED BATH**
Double walled, Temperature ambient + 5°C to 80°C with an accuracy of +/- 1°C. Insulated by 25mm glass wool on 5 sides and 6 holes are provided to accommodate SS pots.
9. **DIGITAL pH METER**
0- 14 pH range, resolution 0.01 PH (1mV in mVmode), repeatability ± 0.01 pH ± 1 digit, mV range 0±1999 mV, temperature compensation 0- 100°C, 4- digit LED with automatic polarity and decimal indication, polarization current 10µA, 220-230V AC, 50Hz. Accessories- Combined electrode, stand and clamp, Pt. electrode and calomel electrode for potentiometric titration.

10. UV VISIBLE SPECTROPHOTOMETER

Double Beam, Wave-Length Range : 190 to 1000 nm, Wave-Length Accuracy : +/- 0.3 nm; Wave-Length repeatability : +/- 0.1 nm, Fully automatic operation, Light source: WI lamp , D2 lamp, Automatic wavelength calibration and wavelength scan, LCD graphic display, Printer interphase, USB Flash disk Communication function, Set of 4 quartz cuvettes.

11. NEPHLO TURBIDITY METER

Range 0- 1000 NTU, Accuracy $\pm 1.5\%$ of FSD in 0- 1000NTU accuracy, $\pm 2\%$ FS repeatability. Photodiode detector, data storage memory, printer port, 230 volts $\pm 10\%$, 50Hz power.

Accessories- flat bottom test tubes (4 nos.) and light shield.

12. CYCLO MIXER

Variable speed, Automatically start on touch,

13. RESEARCH MICROSCOPE

Built-in illumination, Inclined head, Infinity corrected optical system , Quadruple revolving nosepiece with inward tilt Mechanical stage , Anti-Fungus All Plan objectives 4X,10X, 40X & 100X(oil) , Paired wide field eyepiece 10X (FN 20) Coaxial coarse & fine focusing. Condenser for Bright field Rack less stage for durability and ease of use, Mechanical stage focus-lock, Dust free cover and spare bulb.

14. DIGITAL CAMERA WITH ADAPTER FOR MICROPHOTOGRAPHY

DSLR CAMERA 20 Megapixel – Swiveling Display with Detachable Lens adapter: Battery Charger with One Zoom Lens Rechargeable Battery , Memory Card 4GB , Image down loading & Editing Software.

15. IMAGE ANALYSIS SOFTWARE

16. DATA PROCESSING SYSTEMS FOR BIO-INFORMATICS TOOLS

Branded PC, Intel® Pentium® Processor (Quad Core), Windows 8.1, 2GB Memory, 2GB Memory, 500GB 5400 rpm Hard Drive, Integrated Graphics Video Card, Display : 19.5 inch LED Backlit Display with TN and HD + resolution (1600 x 900), Wireless Keyboard with Mouse, Ports : HDD LED, Card reader, headphone jack, Power button, HDMI In, (3) USB 2.0, RJ-45 (10/100), DC power, Media Card Reader 3:1 (SD, SDXC, MMC)

For any clarification regarding tendering process kindly contact

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