



# Pondicherry University

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**Dr. S. Balakrishnan**  
Professor and Head

Ref:No.PU/ES/52/2011-12/

Date: 09.08.2011

Sub: Quotations invited for **Laboratory equipments** – Reg.

Sir,

I invite Sealed Quotations for supply the **Laboratory equipments** as per the terms given below:

S. No.                      Items and Specifications

1. Microprocessor based table top Centrifuge with accessories
2. Ultrasonic cleaning bath with accessories
3. Hot Air oven

For above item no.1 to 3, detailed specifications are mentioned in **Annexure – I**

**Terms & Conditions:**

1. The quotations should be Sealed and superscribed as “Quotation for supply of Laboratory equipments”
2. The quotations should reach the undersigned at 3.00 PM on or before **26-08-2011**.
3. Rate must be valid for 1 year or at least upto 31<sup>st</sup> March 2012.
4. The rate quoted should be duly on FOR destination basis and should be inclusive of all taxes.
5. Payment will be made against bill after receipt of items in good condition at our premises
6. University has right to select or reject any quotation partly or fully without assigning any reason.
7. Specifications of item should be clearly mentioned and rate of main equipment and accessories should be separately mentioned .

Yours sincerely,

(S. BALAKRISHNAN)

Copy to: The Asst. Registrar (P&S),  
Pondicherry University

### **1. Microprocessor based table top Centrifuge:**

Revolutionary microprocessor laboratory centrifuge with brushless induction motor & frequency drive, digital display of speed & time, brake, imbalance detector and lid lock but without rotor heads and accessories.

#### **Technical Specification:**

Max. Speed : 5250 RPM  
Max. RCF : 3600 G  
Max. Capacity: 400 ml  
W x D x H : 365 x 415 x 350 mm  
Power supply : 220 – 240 Volts 50Hz Single phase.

#### **Accessories:**

- a) 4 x 100 ml Swing out head with polypropylene tubes & Biosafety cap
- b) 12 x 15 ml Swing out head with graduated glass tubes.

#### **Salient Features:**

- i) Brushless Induction motor with frequency drive.
- ii) Stable speed output even under unstable voltage conditions
- iii) Seven segment LED display of speed
- iv) Digital countdown timer
- v) Safety lid interlock to prevent lid opening during centrifugation
- vi) Dynamic brake for quick deceleration
- vii) Imbalance & Inverter fault detection with auto shutdown
- viii) Alphanumeric LCD display of speed & RCF
- ix) Selection of 3 acceleration & deceleration profiles
- x) Recall of last set parameters. Useful repetitive analysis

### **2. Ultrasonic cleaning Bath (Imported): (2Nos.)**

High-power ultrasonic cleaning units by aqueous cleaning solutions.

#### **Technical Specification:**

Interior dimensions (l x w x d) : Size: 240 × 140 × 100 mm with Lid  
Transducers : 1 PZT large area transducer  
HF generator : overload protected, constant power  
Operating mode : double half-wave  
Frequency : 35 kHz automatic frequency control  
Timer : 1–15 min and ∞  
Power supply : 220 Volts, 50Hz Single phase

#### **Accessories:**

- a) Insert basket, Stainless steel (l × w × h): 200 × 110 × 40 mm, Mesh size 3,5 × 3,5 mm
- b) Utensil holder, Stainless steel (l × w) 129 × 117mm, maxes. load 1 kg for glass flasks dia. 105 mm
- c) Insert tub, polyethylene non-perforated with lid, int. 195 × 115 × 88 mm (l × w × d)
- d) Test tube holder RG 2, Stainless steel for 6 test tubes up to 25 mm dia and 8 test tubes up to 16 mm dia
- e) Lid, stainless steel

### **3. Hot Air Oven:**

#### **Technical Specification:**

Interior dimensions (D x W x H) : 14 x 14 x 14 Inches  
Inner Chamber : Stainless Steel  
Temperature Control : Digital temperature control and display  
Temperature Range : 30 – 250°C  
No. of Trays : 3 trays  
Exterior : Rest proof powder coated or epoxy coated.  
Operating voltage : 220V AC, ON/OFF switch with pilot lamp indicator