

PONDICHERRY UNIVERSITY
SCHOOL OF PHYSICAL CHEMICAL AND APPLIED SCIENCES
DEPARTMENT OF CHEMISTRY
TENDER NOTICE

25/06/2015

Sealed quotations are invited for the purchase of the following 3 laboratory equipments by the Principal Investigator, UGC Startup project, Department of Biochemistry and Molecular Biology, Pondicherry University. The quotations duly signed and sealed should be submitted to **Dr. Madhu Dyavaiah, Assistant Professor, Principal Investigator, and UGC Start up Project, Department of Biochemistry and Molecular Biology, Pondicherry - 605014.**

The quotations should be sent by post (normal/speed/registered /courier) only. The price quoted should include all costs such as necessary accessories, delivery, installation, testing etc and also inclusive of all the taxes. Warranty is for three years. The technical specification is given below. **Last date for the receipt of quotations is 25th July, 2015 3:00 PM.**

Names of the required laboratory equipments are given below:

S No	Name of the equipment	Qty
1	Laminar Air Flow	1 No
2	Incubator	1 No
3	Orbit Shaker Incubator	1 No

Detailed specification of the individual equipments given below:

1. Laminar Air Flow

Laminar air flow cabinet should incorporate 99.99% efficient HEPA or 99.9999% efficient ULPA fan/filter modules that remove particulate airborne contamination to meet cleanliness requirements and it should meet Class 100 Cleanroom Classification US FED STD 209E equivalent with ISO 5 cleanroom standards.

Technical Specification:

Direction of Flow: Vertical/Horizontal air flow

Noise level: 65 +/-5 db

Filters:

Pre filter: 10 Microns

HEPA Filter: 0.3 Microns

White light illumination and UV light for sterilization

Air flow -Designed for 0.45m/s to 0.65 m/s

Work table: Stainless Steel

Motor Blower:

The motors blowers should Low noise level, low vibration level, compatibility with the variable speed control and most importantly, the efficiency in delivering air through clean HEPAfilters.

Extra power outlet switch

Front Door: Foldable/slanting

Gas Cock

Power supply-Suitable for the model

Working area Dimensions: 4 ft x 2 ft x 2 ft/ 3 ft x 2 ft x 2 ft

2. Orbit incubator shaker:

Orbit incubator shaker should be designed specifically to provide combined advantage of closely controlled incubation with orbit shaking for many laboratory procedures such as culturing of microbes, controlled incubation, aging and growth studies etc. The system should have induction drive motor with the frequency drive that makes the unit suitable for continuous, non-stop operation and a powerful fan for circulation of air to maintain uniformity inside the chamber. The system should have temperature and rpm controller.

1.	Temperature range	25 to 60° C
2.	Temperature accuracy	+/- 0.5-1°C
3.	Capacity	12 flasks and above – (250ml Capacity)
4.	Speed of the rotation	50 to 250 rpm
6.	Model	Floor / Bench
7.	Power supply	Standard
8.	Stabilizer	Suitable for the model
9.	Controller	Digital temperature controller PID type
10.	Illumination	Fluorescent illumination
11.	Shaking amplitude	20 to 25 mm

3. Incubator:

Incubator should have a standard double walled construction, the inner chamber should be made of aluminum or stainless steel sheet and outer chamber made of mild steel sheet finished in powder coated color combinations. The inter-space between walls is filled with glass wool to minimize heat loss. Temperature should be controlled by Digital Temperature control with sensors. A powerful fan for circulation of air to maintain uniformity inside the chamber.

1	Temperature range	25 to 60° C
2	Temperature accuracy	+/- 0.5-1°C
3	Model	Floor / Bench
4	Tray	Minimum 2 Nos. Perforated Stainless Steel
5	Power supply	Standard
6	Stabilizer	Suitable for the model
7	Controller	Digital temperature controller PID type

Terms and conditions (Imported / Indigenous)

1. Price schedule

The rate should be quoted for a single unit and also for the total quantity required by the university. The price should include the delivery, installations, at respective Department in the university. The price quoted shall remain firm till the equipment is supplied to respective department, Pondicherry University.

5. Technical specifications

i) Warranty: The equipment covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operations and performance for period of at least 36 months (3 years) from the date of putting the system into operation at the department of Biochemistry and Molecular Biology, Pondicherry University or at least 42 months from the date of receipt of the last lot of consignment.

ii) If any item covered under the warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.

iii) Complete technical specifications of the equipments include the operation manual to be included in the bid.

iv) The necessary service support should be provided by bidder during the agreement period.

v) The training should be given by the supplying company.

vi) Operation manual should be provided in English

vii) Validity of each quotation should be at least for three months from the closing date.

viii) The vendors should provide a list of users from nearby educational institutions of the model that they have quoted.