



PONDICHERRYUNIVERSITY
(A Central University)
(www.pondiuni.edu.in)
Kalapet, R.V.Nagar
Puducherry-605 014

Tender Notice for Laboratory Equipments

Pondicherry University invites sealed tenders under Two Bid system (Technical and Commercial) for purchase of equipments - Vacuum Concentrator with Freezer assembly, RT-PCR machine, Chemiluminescence system and Refrigerated Stackable Shaker. The complete details are available on the University website: www.pondiuni.edu.in.

The last date and time for submission of tenders is **19th January 2017 at 3.00 pm.**

Principal Investigator
Dept of Microbiology

Tender Document
PONDICHERRY UNIVERSITY
(A Central University)
(R.V.NAGAR, KALAPET, PUDUCHERRY – 605 014)

SCHEDULE OF TERMS & CONDITIONS

PU/DM/EQ/JS/2016-17/

Date: 23.12.2016

Sub: Supply of Scientific Equipments – Department of Microbiology for funded research projects - reg.

Schedule of Requirements

Sealed tenders are invited under two bid systems for supply of Scientific Equipments to Dr. Joseph Selvin, Principal Investigator, Department of Microbiology, Pondicherry University. Puducherry 605014. The last date for the submission of tender is **19th January 2017 at 3.00pm**. The technical details and specifications given below:

Specifications & Technical Details

Code: PU-MB-DBT-2016-V1

VACUUM CONCENTRATOR WITH FREEZER ASSEMBLY

- RPM : 2000 rpm
- Pressure readout (mBar) : 1~1,013
- Pump down capacity (L/min) : 37
- Pump capacity (mBar) : 7
- Chamber Volume : 4 L
- Ice Condensing Capacity : 3 kg
- Ice Cond. Performance : 2.5 kg/day
- Condenser : 1/3 HP X 2(SC12G)
- Refrigerant : R507
- Freeze Drying System works in a temp falls between -50 and 110°C
- Automatic Vacuum and Defrost function.
- Timer ,Start/stop function, Vacuum control
- Digital readout (RPM, TIME, TEMP and VACUUM)
- Programming facility, Modular design for easy upgrade
- Should accommodate a wide range of sample containers: 2.0, 15, 50-ml tubes and micro plates.
- Effective concentration of nucleic acids or small volume of organic solvents.
- ROTORS : Angle rotor : 200 x 2 ml
- Optional Rotors : Angle rotor 12 x 50 ml, 48 x 15 ml
4 place Microplate Swing rotor.
- 4-Valve Manifold Basic with six rubber valves on a stainless steel bar, 30cm
- Acrylic Chamber Trunk and Top with 4 Rubber Valves, ø30cm, height 40cm
- Suitable Vacuum Pump
- The system should also have centrifugal concentrator designed to rapidly concentrate multiple small heat-sensitive samples, such as RNA and proteins, using centrifugal force, vacuum and controlled temperature
- Certification : ISO 9001 and ISO 13485 or Indian and International standard certification.

Code: PU-MB-DBT-2016-RT-1

REAL TIME PCR MACHINE

- Real time PCR with block of 96 and or 384 ml tubes or plate to run tubes, strips, and plates.
- Detection of 5-6 different fluorescent reporters in the same tube and supporting international publications.
- Six excitation and six emission channels and each filter should correspond to one dye that ensures smooth differentiation of even dyes having high degree of spectral overlap.
- Should be capable of Detecting Cy5, FAM/SyBr Green, VIC/JOE, TAMRA/Cy3, Texas Red, Quasar705 and other commercially available universal dyes
- Maximum Ramping speed not less than 4 °C per sec
- Peltier Cooling & Heating for uniform temp control
- Multiplex analysis: upto 4 targets
- Excitation –Emission range: 450-680 nm or 460- 720nm or 577/620 nm
- LED excitation source with Photodiode detector
- Dynamic range of 9 orders or above.
- Open system capable of running various chemistries, reagents and plastic ware so that different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
- Temperature range 0– 100 °C with accuracy of ± 0.2 °C and uniformity of ± 0.4 °C within 10 sec of arrival at 90 °C
- System must be capable of working with minimum sample volume : 10 μ l and less than 10 μ l is also preferred
- System must be capable to detect ≤ 10 fmol of fluorescein or even less
- Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds
- Automatic allelic discrimination by end point fluorescence or threshold cycle.
- End point analysis for upto 5 fluorophores
- Should have mode for Melt curve analysis
- Comparison of up to 5000 Ct values from different data files should be possible
- Software should have express load feature which allows entry of data after experiment.
- Real time PCR should be licensed for Research applications and license copy must be provided.
- Touch screen operation with auto backup function
- Precision Melt Analysis Software, includes 2 user licenses, installation CD, 2 HASP HL keys, melt calibration kit.
- Chemical Install kit, FG-Tube 8-string optical, Fg-optical cap (8 caps/strips).Taqman Fast reagent starter kit
- FG-power SYBR Green PCR Master mix,plates and disposables. Two assays of 100 reaction each with two different chemistries.
- RT PCR tubes 0.2 and 0.5 ml (each 500 nos)
- RT PCR plates – 12 Nos
- RT-PCR plastic consumables such as PCR tube racks for 1.5 ml, 0.5 ml, and 0.2 ml (20 nos each)
- 96 places sample storage boxes with cap (20 nos)
- Disposable nitrile gloves (500 pairs)
- DNA/metaDNA extraction kits for 500 samples
- Real time PCR Master mix/ Buffer/ Dye/ Chemicals required for running 1000 Taqman, 500
 - SYBR green chemistry.
- Optional accessories: provisions for other modes and automation. High-throughput assay supports Mandatory accessories: Stabilizer and Air-conditioner for running the equipment.

Code: PU-MB-DBT-2016-V2

Chemiluminescence system

- System with true 16 bit CCD (0-65,535 levels), with 4-12 Megapixel image resolution. Image resolution expected is >8 megapixels
- System for Western blot imaging, DNA, RNA gel and colorimetric protein gel imaging with extensive analysis tool for molecular weight calculation, band distance, colony counting, merge marker, etc.
- Cooled CCD with cooling range upto -30°C absolute temperature using peltier cooling system
- System with dynamic flat fielding technology for having accurate Quantitation CV < 5 %.
- The system should have the capability of stain free gels and blots.
- System should have five different modes of illumination – Trans-UV, epi-white, no illumination for chemiluminescence. Trans-white, Trans-blue. UV-Fluorescence dyes
- Instrument should have a large transillumination area
- Instrument should have auto focus technology that is system should automatically take the best focus depending on any zoom level without the movement of sample platform. The sample platform should be fixed at one position to ensure minimal mechanical movement.
- Instrument should have a minimum 3 position filter wheel for capturing images of various dyes effectively. The filter wheel should be motorized and automatic without the requirement of manually changing or moving the filter wheel.
- System should offer various binning options with minimum of 2x2, 3x3 and 4x4 for customized sensitivity.
- The Image output formats from the system should be in Grayscale 16-bit (.tiff) & Color image (.jpg).
- Software supported support
- Suitable for Proteomics and Genomics studies, 2-D protein gels, 1-D nucleic acid and protein gels, Western blots – Chemiluminescence, Northern and Southern blots
- Consumables like ECL Kit, Coomassie stain, Silver Stain, DAPI Nuclear stain, Agarose, Gel Solution, Acrylamide Bis Solution of sufficient quantity should be supplied.
- Accessories : Blue Conversion screen, Xcita Blue conversion screen, GFP, Flamingo, SYBR safe, other Fluorescent stains, Filters for Gold/fluorescein, SYBR safe, CY3/ rhodamine, Texas Red, Coumarin, 254 nm UV lamps, 355 nm UV lamps, 302 nm UV lamps, Gel Alignment templates.
- Stabilizer for both system and Computer system with colour Printer.

Code: PU-MB-DBT-2016-V3

REFRIGERATED STACKABLE SHAKER

- The shaking orbit dia should be 25 mm with speed range of at least an speed of 25-425 rpm while 3 stacked with +/- 1 rpm
- Movement of the shaker should be Magnetic (or) Triple Eccentric Counter balanced drive, driven by Brushless AC or DC drive for uniform agitation.
- Shaker temperature range should be from 3°C to 80° C with an accuracy of $\pm 0.1^{\circ}\text{C}$ at 37°C at an ambient temperature $<32^{\circ}\text{C}$.
- The universal platform should hold at least 35-40 nos of 100/250ml flasks 24 nos of 500ml (or) 12-15 nos of 1000ml (or) 5-8 nos of 2000ml (or) 2-6 nos. of 5000ml flasks in the universal platform and facility to hold test tube racks and micro plate holders.
- The platform should be capable of using assorted clamps and with option to use Sticky mat.
- A minimum space of 25mm should be available between 5 Ltr flask with cotton plug flask and top of the inner chamber for better oxygen transfer
- Control should be Membrane Keypad with Digital LED display.
- Wide front glazed insulated window for clean view of culture.
- Swing down front open door with large viewing window and gas spring damper for convenient sliding of platform and resting is preferred , without disturbing the access to second or third deck when stacked.
- Should have interlocking stacking kit arrangement for shakers as standard.
- Chamber inbuilt water reservoir for humidification to minimize sample evaporation.
- Height of the third unit platform should not exceed 1.5m from the ground.
- Related published document, web links and list of publication in support of your claims on shakers supplied/manufactured by you.
- Manufacturer should be ISO 9001-2015 Company with the products being CE Marked or comparable standards.
- If necessary, the equipment has to be demonstrated in our laboratory or in manufacturer's facility (for Indigenous manufacturers only) or at any installed place.
- Accessory photosynthetic light bank, Gas purging facility to address various applications on research.
- Stackable unit/price shall be quoted separately

TERMS AND CONDITIONS

I. General Information: -

1. Last and time of receipt of the Tenders: **19.01.2017, 3.00 PM**
2. Date and Time of opening of Tender and Technical Bid: **19.01.2017, 3.15 PM**
3. Date and Time of opening of Price Bid: will be intimated
4. **Tender Document fee Rs. 1000/- per each equipment**
5. **EMD rates: 2.5% of the quoted price of each equipment**
6. **Two bid systems have to be strictly followed. One for Technical bid and another for commercial bid and each bid should be submitted in separate sealed covers.**
7. **Quoting merely the lowest price does not confer any right to any bidder for award of supply order.** The University's Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support, additional warranty, offer of additional / special features, Compatibility with the existing System, Training, etc.
8. The Tender Document Fee and EMD should be submitted in a separate cover superscripting **Bank Demand Draft** and **which should be enclosed with the technical bid.**
9. The tender / quotation must be submitted along with the stipulated tender document fee and, EMD in the sealed cover, super-scribing "Tender to Dr. Joseph Selvin, Department of Microbiology".
10. The cover should also contain the information like, Name of the Equipment and Serial Number of Equipments for which the bids are submitted. The name and address of the bidder should also be mentioned at the from address space.
11. The tenders should be addressed to **Dr. Joseph Selvin, Principal Investigator, Department of Microbiology, Pondicherry University, Puducherry 605 014.**
12. Quotations will not be accepted through fax / e-mail.

II. Common Conditions

1. Purchase of Tender Document:

The Tender document can be either downloaded from the University website **www.pondiuni.edu.in** or procured from the Information Facilitation Counter, Dr. Ambedkar Administrative Block, Pondicherry University on payment of fee as specified above, by means of a D.D. drawn in favour of the Finance Officer, Pondicherry University, payable at Puducherry.

The downloaded application should be accompanied with the tender document fee, in the form of a Demand Draft. Separate bids should be submitted.

2. Price Schedule

The bidder may either quote for the entire equipments or individual items required for the funded-projects. The rates should be quoted for a single unit and also for the total quantity required by the University. The price should include the Delivery, installation, training charges (if any), etc. at the respective Department, Pondicherry University.

The prices quoted shall remain firm until equipment is supplied to the Department of Microbiology, Pondicherry University.

3. Quoting the Core price & Tax, Duties, Discount etc.

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

4. Eligibility:

The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items they are quoting.

The firm should have been in existence for at least six years as on the date of this tender and must have executed at least three orders for this kind of equipment during the last three years.

5. Duty Exemption

The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), India, vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dt. 23.07.96 respectively,

In respect of

- a. Scientific and technical instruments, apparatus, equipment including computers.
- b. Accessories and spare parts of goods specified in (a) above and consumables.
- c. Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, micro-chips etc.
- d. Prototypes.

Customs duties at Indian port, if any, will be to the account of the University.

6. Warranty:

The material covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of **three years from the date of putting the system into operation** at the Pondicherry University.

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

7. The information pertaining to infra-structural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder, at least 120 days in advance of the installation to be commenced if purchase order is issued. All drawing for electrical connections, electrical safety items piping work etc. must be provided in detail.
8. Complete technical specifications and literature, including process flow, to be included with the quotation. Manufacturers of various major parts/equipment must be mentioned explicitly.
9. A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
10. A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
11. If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
12. The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The University shall provide necessary information if required for this purpose.
13. All equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.
14. The validity of the each quotation should be at least 1 Year from closing date of the bid.
15. The offers will not be considered if received after the bid closing date and time.
16. The offers received through telex / tele-fax / e-mail will not be accepted by the University under any circumstances.
17. The University shall not be responsible for any delay / loss or non-receipt of tenders by post / courier service.
18. No unsolicited correspondence shall be entertained after the submission of the offer.
19. If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
20. Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
21. Tender is not transferable

22. In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.

23. Power to reject the offer:

Pondicherry University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.

24. No Agency commission will be paid to any authorized agent in India.

25. Liquidated damages: Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty/LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Pondicherry University shall be final in this regard.

26. The training should be provided by the supplying companies on the specimen and operation of the equipments for a minimum period of two weeks from the date of installation with an expert team.

27. For any clarification with respect to technical specifications, please contact the Principal Investigator as per the details given below: -

Dr. Joseph Selvin
Principal Investigator
Department of Microbiology
School of Life Sciences
Pondicherry University, Puducherry 605014
Tel: 9944263367, Email: josephselvinss@gmail.com

III. Specific Conditions:

1. Payment of EMD:

The Tender must be accompanied by EMD as stated above, by means of a Demand Draft, drawn in favour of the Finance Officer, Pondicherry University, payable at Puducherry in a separate cover. The amount is refundable. The Small Scale units are exempted from payment of EMD provided they should enclose proof of their exemption Certificate issued by the competent authority.

2. Payments terms:

Normally a letter of Credit will be opened for 90% of CIP price, on receipt of order acknowledgement. However, 100% of the LC also be considered, if the supplier provide Bank Guarantee towards performance Security for the 10 % of the total cost of the equipment to cover the Warranty Period.

Bank charges in India shall be borne by the purchaser and outside India shall be borne by the contractor / supplier.

3. The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in Rupees or in US Dollars or in major foreign currencies.

4. The total cost should be quoted for FOB as well as CIF – Pondicherry University.

5. However, the price quoted under FOB or should also include the following cost if they are required during the initial stage:

a) Local freight / insurance for Chennai airport to University laboratory.

b) Installation cost if any.

c) Cost of consumables which are required for the equipment for initial operation upto a reasonable time.

6. In case of the Principal supplier of Foreign country unable to meet the conditions stated at para no.4, the local agent / dealer should fulfill the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.

7. The bidder from within India shall obtain the requisite approval for Imports etc., if required

Date: 23.12.2016

PRINCIPAL INVESTIGATOR

ANNEXURE - I

BANK GUARANTEE

Pondicherry University

Bharat Ratana Dr. B R Ambedkar Administrative Building

R Venkataraman Nagar

Puducherry 605 014

This guarantee made this _____ day of _____ 201_ by _____ Bank having its Registered Office at _____ and one of its branches at _____ (hereinafter referred to as “the Guarantor” which expression shall, unless it be repugnant to the subject, meaning or context thereof, be deemed to mean and include its successors and assigns) in favour of the Pondicherry University, Puducherry 605 014 represented by its Registrar, having his office at R. Venkataraman Nagar, Kalapet hereinafter referred to as the “University ” which expression shall include his successors in office for an amount not exceeding Rs. _____ (Rupees _____ only) at the request of M/s. _____ (more fully described hereunder)

2. Whereas the University has placed Work Order No: PU/ _____ dated _____ for _____ with M/s. _____ having its office at _____ and hereinafter referred to as the “Contractor” which expression shall include their successors and assigns.

3. And whereas the Contractor has accepted and agreed to execute the work as per the work order as per undertaking / agreement dated _____ within the time stipulated and in the manner specified therein.

4. And whereas the University has called upon the Contractor to furnish Bank Guarantee for the sum of Rs. _____ (Rupees _____ only) for fulfillment of the said work as specified in the work order and as agreed to by the Contractor.

5. And whereas the Contractor has requested the Guarantor herein to furnish an irrevocable and unconditional Bank Guarantee in favour of the University for an amount of Rs. _____ as guarantee towards execution of the work as agreed to by the contractor to the University.

6. Now, therefore, we _____ Bank, the Guarantor herein, do hereby irrevocably and unconditionally Guarantee the payment to the University the sum not exceeding Rs. _____ (Rupees _____ only) in the event of any breach, failure, neglect or inability on the part of the Contractor in the execution of the said work, on demand without reference of the matter to the Contractor and without any prior consent

of the Contractor, at all times throughout the period of execution of the work, without demur, cavil or argument or delay.

7. The Guarantor agrees and undertakes that the decision of the University as to whether the contractor has committed any breach of the obligation with respect to the work to be executed, and the quantum of amount therefore payable by the Contractor to the University in that regard, shall be final, binding and conclusive as against the Guarantor and the Guarantor shall make payment accordingly, on demand by the University.

8. The Guarantor further agrees and undertakes to pay to the University the amount demanded by the University irrespective of and notwithstanding any dispute raised by the Contractor in any suit or proceeding before any judicial forum relating to the Contracted work and the Guarantor's liability under this Guarantee shall be absolute and unequivocal.

9. This Guarantee is issued subject to the condition that the liability of this Guarantor under this guarantee is limited to the maximum of Rs. _____ (Rupees _____ only) and the guarantee shall remain in full force up to _____ and cannot be invoked otherwise than by a written demand or claim by the University for the payment of the said amount by the Guarantor on or before _____ or any extended date as decided by the University.

10. This University shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the contracted work or to extend time for performance of the work by the Contractor. Any change to the contracted work shall not in any way release the Bank (Guarantor) from liability under this Guarantee and we waive notice of any such change. The University shall have full liberty to forbear or enforce any of the terms and conditions of the contracted work.

11. This Guarantee shall not be affected by any legal limitation, disability or other circumstances relating to the Contractor or the Guarantor.

12. This Guarantee shall be valid for the period upto _____ and shall extend further and beyond _____ for such period as determined by the University.

13. The Guarantor undertakes not to revoke this guarantee except with the previous consent of the University in writing.

14. Notwithstanding anything contained herein:

Our liability under this guarantee shall be limited to Rs. _____
(Rupees _____ only)

This guarantee shall be valid upto _____ and for such further period as determined by the University for fulfillment of the contract.

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before _____ or such extended period / date.

In witness whereof, this Guarantee has been executed by _____ for an on behalf of the Bank (Guarantor) on the day, month and year first above written.

SIGNATURE AND SEAL

NAME OF THE BANK (GUARANTOR)

ADDRESS:

ANNEXURE - II
BIDDER'S WARRANTY

The Registrar, Pondicherry University, Puducherry invited Bid Document for supply and installation of the equipment(s) namely, _____
at _____, Pondicherry University, Puducherry AND
M/s. _____

Thereinafter referred to as "The Bidder" having carefully studied all the bid documents, Specifications, etc. accompanying the tender for supply of the above mentioned Equipment and desirous to submit the bids as per the Tender Document advertised vide Notification No. PU/MB/EQ/XII Plan/2013-14/ dated 05.07.2013.

DO HEREBY WARRANTY THAT

1. The bidder is familiar with all the requirements of the bid documents.
2. The bidder has investigated the site and satisfied, he regarding the character and scope of the work and local conditions that may affect the supply or its Performance.
3. The bidder is satisfied that the supply can be performed and completed as required in the contract.
4. The bidder accepts all risk directly or indirectly connected with the performance of the contract.
5. The bidder has had no collusion with other contractors, with any of the men of Pondicherry University, Puducherry, or with any other person in preparation of the bid.
6. The bidder has not been influenced by any statement or promise of the Officials of Pondicherry University, Puducherry but only by the bid documents.
7. The bidder is financially solvent.
8. The bidder is experienced and competent to perform the contract to the satisfaction of the Coordinator, Central Instrumentation Facility, Pondicherry University, Puducherry.
9. The statements submitted with the bid are true.
10. The contractor is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
11. All the terms & conditions of the Supply Order will bind the bidder once his quote is accepted and supply order issued.

Signature of the Bidder