



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

Tender Notice for Laboratory Equipment

Pondicherry University invites sealed tenders under Two Bid system (Technical and Commercial) for purchase of equipments. The complete details are available on the University website: www.pondiuni.edu.in.

The last date and time for submission of tenders is **06-9-2019 at 3.00 pm**.

Principal Investigator
Dept of Food Science and Technology

Tender Document

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

SCHEDULE OF TERMS & CONDITIONS

PU/DBT /EQ/GSK/2019-20/

Date: 21.08.2019

Sub: Supply of Scientific Equipment – Department of Food Science and Technology for funded research projects - reg.

Schedule of Requirements

Sealed tenders are invited under two bid systems for supply of Scientific Equipments to Dr. G. Seghal Kiran, Principal Investigator, Department of Food Science and Technology, Pondicherry University, Puducherry 605014. The last date for the submission of tender is **6th September 2019 at 3.00 pm**. The technical details and specifications given below:

Specifications & Technical Details

Code: PU/FST/DBT-2019-01

NANO VOLUME UV-VIS SPECTROPHOTOMETER

- Wavelength Range: 190-850 nm or better
- Minimum Sample Size: 1 μ L
- Path length: auto-ranging 0.03 to 1 nm
- Light Source: Xenon flash lamp
- Detector Type: 2048-element CMOS linear image sensor
- Wavelength Accuracy: +/- 1 nm
- Spectral Resolution: <1.8 nm (FWHM @Hg 254 nm)
- Absorbance Accuracy: \pm 3% (at 0.97 absorbance at 302 nm)
- Absorbance Range: Pedestal-0-550 A (10 mm equivalent)
- Detection Limit : Pedestal: 2 ng/ μ L dsDNA, BSA (IgG) : 0.06 (0.03) mg/mL
- Maximum Concentration: 27,500 ng/ μ L (dsDNA), 820 (400) mg/mL (BSA (IgG))
- Measurement Time: < 8 seconds
- Sample pedestal Material of Construction: 303 stainless steel and quartz fiber
- Touch Screen: 7 inch 1280 \times 800 high-definition colour display, android based Quad Core ARM Cortex A-9 Processor, Multipoint capacitive touch
- Connectivity: Three USB-A ports, Ethernet, Bluetooth and Wi-Fi
- Software: Software should have feature to identify the contaminants in the sample and report a corrected sample concentration. It should also detect the bubbles and other

anomalies in the sample column. Software should provide instant feedback about sample quality with on-demand technical support for guided troubleshooting.

- Application Support: Nucleic Acid A260, A260/A280, A260/A230 and Labeled Nucleic Acids; Protein A280 and A205, Protein Pierce 660, Protein Bradford, Protein BCA, Protein Lowry, Labeled Proteins, UV-Vis, and Custom Methods.
- Mandatory accessories: Stabilizer and 1.5 ton Air-conditioner for running the equipment.

Code: PU/FST/DBT-2019-02

LARGE CAPACITY STACKABLE REFRIGERATED SHAKER

- Shaker should be stackable upto 3 levels.
- The shaking orbit dia should be 25 mm with speed range of at least an speed of 25-400 rpm while 3 stacked within +/- 1 rpm.
- Movement of the shaker should be Magnetic (or) Triple Eccentric Counter balanced drive, driven by Brushless Motor for uniform agitation.
- Shaker temperature range should be from 5°C to 80°C with an accuracy of $\pm 0.1^\circ\text{C}$ at 37°C at an ambient temperature $<28^\circ\text{C}$.
- The universal platform should be capable of using assorted clamps; also the equipment should have provision of using Anodized Tray with Sticky mat.
- Control should be Soft touch Keypad (or) touch screen 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.
- Pull out and front access service module allows easy access to all electronic and heating/cooling components without having unstack the units.
- Should have interlocking stacking kit arrangement for shakers as standard.
- Should be future upgradable with photosynthetic light bank, Gas purging facility to address various applications on research.
- Shaker should have minimal foot print of 1.1m² (approx) with external dimension not exceeding 1410 x 725 x 810mm (WxHxD) and Maximum Weight of shaker should not exceed 240kg per unit
- Optional: The universal platform should hold at least 60 nos of 100ml flasks (or) 40 nos of 250ml flasks (or) 24 nos of 500ml flasks (or) 15 nos of 1000ml flasks (or) 12 nos of 2000ml flasks (or) 6 nos. of 5000ml flasks (or) 5 nos of 6000ml flasks in the universal platform and facility to hold test tube racks and micro plate holders.
- Clamp should be made of single piece stainless steel material (without welding) and leaves tied with three spring.
- Shaker should come with Thermostat cut-off, door switch, and non-volatile memory with automatic power failure restart.

- List of publications in National/International Journals in support of usage of the shakers supplied/manufactured by you should be provided.
- Manufacturer should be ISO 9001-2015 Company with the products being CE Marked.
- Original company literature with offered specifications should be enclosed with the bid failing which the bid may be treated non-responsive.
- Number of Installations for the quoted model in India in reputed Government organisation like IIT's, IISER's, CSIR, ICAR, other any Central Institutions etc., should be a minimum of 75.
- Minimum 10 working performance certificate on the letter head of the organization out of which at least 5 Nos of triple stacked shakers installed in different Government /Reputed Private organizations for the same model quoted to be enclosed failing which the bid may be disqualified.
- Custom built models will not be considered.
- 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.
- Mandatory accessories: Stabilizer and Air-conditioner for running the equipment.

Gel Doc

Code: PU/FST/DBT-2019-03

The quotation should have separate price for the following 2 components:

1) Instrument

- System should have Image resolution >4 mega pixels for resolving closely spaced bands on a gel or blot.
- System should have 4.6 x 4.6 µm pixel size & >3.0 orders of linear dynamic range
- System should be completely automatic & user does not have to zoom, focus, adjust aperture or select light source.
- System should be modular with different sample trays & flexible to image a wide variety of applications, including nucleic acid.
- System should have UV, White light, & optional Blue light.
- System should have stain-Free capability for stain-free gels and blots.
- Sample trays should be customizable per user and recognized automatically.
- System should require only one emission filter to accommodate a large portfolio of detection methods: ethidium bromide, SYBR® Green, SYBR® Safe, SYBR® Gold, GelGreen, GelRed, Fast Blast™, SYPRO Ruby, Flamingo™, Oriole™, CY3, rhodamine, green fluorescent protein, Hoechst, Krypton, silver stain, copper stain, zinc stain, Coomassie Brilliant Blue, Coomassie Fluor Orange, and other spectrally similar stains, labels, and dyes.

- Should have lens flat-fielding calibration for each sample tray to delivers image data that are always optimized and reproducible without imaging artifacts, providing superior image uniformity and quantitation
 - System should come with suitable accessories like trays for viewing DNA and Protein gels and stain free gels
 - Documentation System must be supplied for analysis of results
 - Provided with a computer - Intel Dual Core CPU, ASUS Mother Board, 4GB DDR 4 Ram, 500GB Hard Disk, 18.5 “AOC LED Monitor
- 2) Standards for In-gel protein digestion, LC- MS/ MS data of standard proteome, Peptide identification and annotation support.

Analysis software specifications

- Imaging Analysis software should come with more than one licence version
- Software should have highest level of automation in hardware calibration, image optimization, capture, and analysis.
- Should have automated workflow recorded in a protocol file from image capture to results thus eliminates need for training.
- Should allow 100% repeatability of the workflow by any user and ensures optimized image data and analysis from a gel in a single uninterrupted, fast, and completely reproducible workflow.
- Should have automated image capture driven by a selected gel or blot application.
- Should have one-button acquisition from image capture to result.
- Should generate the publication ready images with one click export option.
- Should generate customizable reports.

TERMS AND CONDITIONS

I. General Information: -

1. Last and time of receipt of the Tenders: **06.09.2019, 3.00 PM**
2. Date and Time of opening of Tender and Technical Bid: **06.09.2019, 3.00 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. G. Seghal Kiran, Department of Food Science and Technology".

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. G. Seghal Kiran, Principal Investigator, Department of Food Science and Technology, 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 Food Science and Technology, 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. G. Seghal Kiran
Principal Investigator
Department of Food Science and Technology
School of Life Sciences
Pondicherry University, Puducherry 605014
Tel: 9566855782, Email: seghalkiran@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: 21.08.2019

PRINCIPAL INVESTIGATOR