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UNIVERSITY INSTITUTE OF PHARMACEUTICAL SCIENCES

PANJAB UNIVERSITY, SECTOR-14, CHANDIGARH

TENDER DOCUMENT FOR THE PURCHASE OF

INFRARED SPECTROPHOTOMETER-NIR

Tender notice No.	215/PS Dated 11th January 2016
Last Date and Time for receipt of Tender:	5 th February, 2016 up to 4:00 pm
Date of opening of Technical bids in the department:	10 th February, 2016
Date of opening of the Price bids in the department:	16 th February, 2016
Name of address of the Address of the Person issuing tender:	Bhupinder Singh Bhoop Professor & Chairperson, University Institute of Pharmaceutical Sciences Panjab University, Chandigarh 160014. chairperson.uips@pu.ac.in

Tender Fee Rs.1,000/-

Tender fee of ` 1000/- is to be submitted along with the Tender in the form of demand draft of `1000/- payable at Chandigarh in favour of The Registrar, Panjab University, Chandigarh.

University Institute of Pharmaceutical Sciences, Panjab University is interested in the supply, installation and commissioning of the equipment **FT-NIR** as per the technical specifications given in the Annexure A.

Proforma Invoice is invited from the interested Principals/manufacturers/authorized agents for supply of the same. The Proforma-Invoice should be in triplicate and in the name of Bhupinder Singh Bhoop, Professor & Chairperson, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh 160014.

PROCEDURE FOR SUBMISSION OF BIDS

There will be **Two bids system** for this Tender: *Technical bid* and *Price bid*

The Technical Bid of the Tender should be covered in one sealed cover superscribing the words "*Technical Bid*".

Likewise, the Price Bid should also be covered in a **separate** sealed cover superscribing the words "*Price Bid*".

The two documents viz., *Technical bid* and *Price bid* covers prepared as above should be enclosed in a single sealed cover marked as under:

Tender for the supply of FT-NIR
 Due on 05/02/2016; 4.00 PM (last date for submission).
 Name & Address of the Tenderer.....

Note: Price should not be indicated in the Technical bid otherwise the Tender will be rejected

The latest hour and date of receipt of the offer in the respective department is up to 04:00 p.m. the 5th February 2016.

- (a) The Technical bid shall be opened at 3.00 p.m. on 10th February 2016. The date and time for opening of the Price Bids shall be the 3.00 p.m. on 16th February 2016. In case the date of opening of the bids fall on the day which is declared public holiday, these shall be opened on the following day at the same time.
- (b) Only manufacturers or their sole authorized distributors/sole agents are entitled to submit the Proforma Invoice from the Principals, otherwise tender shall not be considered. All offers other than those from the manufacturers should be supported by an authority letter from the manufacturers authorizing the firm to tender on their behalf. Certificate or a photostat copy thereof to the effect that you are the manufacturers of the equipment,' authorized sole distributors or sole agents for manufacturer on whose behalf you are quoting, must be included in the documents.

- (c) The tenderer must be a manufacturer or his authorized agent (specifically against this tender for the subject goods) and should have successfully executed contracts for similar and/or identical goods in the past three years prior to the date of tender opening.
- (d) The detailed technical specifications are given in Annexure A.
- (e) Technical specifications are intended to be descriptive and not restrictive. The bidder may substitute alternative standards, in its bids, provided they are demonstrated to be equivalent or superior substitutes and are to the purchaser's satisfaction.
- (f) Clarifications, if any could be sought from the Bhupinder Singh Bhoop, Professor & Chairperson, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh 160014 in writing within the period before the stipulated last date of receipt of the tender.

OTHER INSTRUCTIONS

1. A person signing the tender form or any other document forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bid such tenders and if on enquiry it appears that the person so signing had no authority to do so, the purchaser may without prejudice to other civil and criminal remedies against the contract, hold the signatory liable for all costs and damages and forfeit the Earnest Money.
2. The bids prepared by the tenderer including all correspondence and documents relating to the bids, shall be written in English language.
3. The contract for the supply of the items is non-transferable.
4. Tender/Offer should be type written, otherwise the same will be rejected.
5. Each page of the tender document should be signed by the authorized signatory.
6. Each offer should be complete in all respects.
7. Telegraphic/electronic/conditional offers will not be accepted.
 - i. Rates and Service charges should not be quoted in the Technical bid.
 - ii. All pages of the Technical Bid/Price Bid shall be page numbered. In case of triplicate copies, separate copies shall be page numbered separately.
8. Tenders/Proforma Invoices not accompanied by detailed information as required, are liable to be rejected.

TERMS AND CONDITIONS

1. OPENING OF BIDS: Technical bids will be opened by the Committee after the closing date and studied. The Tenderers will be invited for presentation and clarifications if needed. Financial bids of the Tenderers complying with the prescribed Technical specifications will be opened by the Committee. Tenderers or their authorized agents may be present if they so desire during opening of the Tenders. The Tendering company should depute the person who is qualified for technical knowledge and be present at the time of opening of the technical bid.

2. REJECTION OF BIDS: The Committee reserves the right to reject any or all offers without assigning any reason.

3. EARNEST MONEY DEPOSIT (EMD)

- a) The tender must be accompanied with Earnest Money as detailed below in a lump sum amount in the form of Demand Draft valid for one year on a scheduled bank/term deposit receipt valid for a period of one year from any scheduled bank in the name of the Chairman, University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh. Earnest Money in any other form will not be accepted. F.O.R. cost of equipment up to Rs. 10.00 Lacs: Earnest money : Rs. 25,000/-
Between Rs.10.00 Lacs to Rs. 20.00 Lacs : Earnest money : Rs.40,000/-
Between Rs.20.00 Lacs to Rs. 30.00 Lacs : Earnest money : Rs.50,000/-
- b) Bids not accompanied by Earnest Money as stated above or less than the amount stipulated above shall be summarily rejected.
- c) Earnest Money/security deposit/any other sums of the tenderers lying with the University in connection with any other tender/case will not be considered against this tender.
- d) The warranty period should be minimum Twelve months (with spares) from the date of installation with satisfactory performance as per specifications. Thirty six months free service to be provided after the warranty period.
- e) The University would return the earnest money mentioned to the successful tendering firm after the expiry of guarantee/warranty.
- f) The University does not pledge itself to accept the lowest, tender, and reserves to itself the right of acceptance of the whole or a part of the tender, or portion of the quantity offered, and the tenderers shall be required to supply the same at the rate quoted. The University reserves to itself the right to accept or reject a part or all the tenders without assigning any reason thereof.

4. GUARANTEE / WARRANTY & AMC/CMC

- (a) Guarantee/warranty shall be quoted for 12 months after installation and 36 months free service to be provided after the warranty period.
- (b) In addition to quoting for the equipment, tenderers must quote the charges for Annual Maintenance Contract (AMC) for a period of 2 years for maintaining the equipment at this University after the period of warranty/guarantee. During, the service contract period, the firm shall provide four preventive maintenance visits in addition attending to all emergency and break-down calls. The service contract charges should be quoted for labour cost only and should not include the cost of any replacement parts/components that may be needing replacement. During the service contract period replacement of parts/components that may be needing replacement shall be made available by the firm to the Institute at its expense. The charges shall be paid to the firm in quarterly installments after satisfactory service.
- (c) In addition to quoting the charges for the AMC, the firm must also quote the charges for Comprehensive Maintenance Contract (CMC) for a period of 5 years after the completion of Service Period of guarantee/warranty. The CMC charges should be quoted for labour cost as well as cost of any replacement parts / components that may be required for keeping the equipment functional.
- (d) Tenders not containing service contract charges shall be considered incomplete and shall be rejected.
- (e) The tenderer shall give a list of institutions/universities/research labs in India where their equipment had been installed. The University reserves the right to inspect such institutions/labs and see actual performance of such equipment. The Department may ask for demonstration of the equipment in the department at the time of technical evaluation.

5. CONVERSION TO SINGLE CURRENCY:

The instrument and all its accessories/spare parts quoted in foreign currency will be converted into Indian Currency at the exchange rate applicable on the day of opening of the financial bids for comparison purposes. Any change in conversions rates, excise duty taxes etc. will be taken care by the tenderer.

6. MERGER / ACQUISITION OF FOREIGN PRINCIPAL:

In case of merger of Foreign Principal with another Firm or acquisition of Foreign Principals by another firm, it shall be obligatory for the New Entity so formed after the merger or the Acquiring Firm, as the case may be to take over all the duties and obligations / liabilities of the Foreign Principals and the New Entity / Acquiring Firm would *ipso facto* become liable for all acts of commission or omission on the part of original Foreign Principals.

7. CHANGE OF INDIAN AGENT:

In case the Foreign Principal changes the Indian Agent then it shall be obligatory for Foreign Principal to automatically transfer all the duties and obligations to the new Indian Agent, f a i l i n g which the Foreign Principal would *ipso facto* become liable for all acts of commission or omission on the part of new Indian Agent.

8. PAYMENT TERMS:

FOB value shall be paid through irrevocable Letter of Credit/Wire transfer established in favour of the foreign supplier through State Bank of India, Panjab University, Chandigarh on a bank in the supplier's country, on submission to the bank of the documents specified in the Letter of Credit and further following documents:

- a) Foreign supplier's certificate that the amounts shown in the invoice are correct in terms of the contract and that all the terms and conditions of the contract have been complied with.
- b) Foreign supplier's certificate confirming that the original documents have been dispatched to the port consignee in accordance with the contract and
- c) Any other document specified in the notification of award or the contract.

or

The payment shall be released on the basis of certificate by Chairperson, University Institute of Pharmaceutical Sciences of successful installation of the equipment.

9. CUSTOM CLEARANCE

The equipment requiring import from abroad will be imported under the OGL scheme, for which tenderer will ensure before shipment takes place, that the equipment, in question, can be imported under the said scheme.

- a. The equipment will be got cleared from the Custom by the tenderer at their own cost, demurrage if any will be borne by the tenderer.
- b. It will be the responsibility of the tenderer to pursue and claims with the customs authorities/Insurance company /cargo operators and transporters, as may arise, at any stage.
- c. The N.M.I.C. (Not Manufactured in India Certificate) and the CDEC (Custom Duty Exemption Certificate) will be provided by the University.

10. MODE OF DESPATCH, DELIVERY AND COMMISSIONING OF EQUIPMENT :

The equipment with all its accessories should be dispatched by air to Delhi (INDIA) duly insured, freight and insurance charges pre-paid. The tenderer is required to undertake to deliver, install, commission and handover the equipment to University Institute of Pharmaceutical Sciences within the stipulated period. The installation of the equipment shall be completed and handed over within the time schedule given in the tender. 'this stipulated period should be strictly adhered to for implementation".

11. TRAINING OF PERSONNEL

The successful tenderer will be required to undertake to provide at his cost technical training for personnel involved in the use of the equipment at site at University immediately after its installation. For this purpose, the company experts shall be required to operate and train the University personnel at site at University

12. SUPPLY, INSTALLATION AND COMMISSIONING OF THE EQUIPMENT:

The supply, installation and commissioning of the equipment shall be as per term and conditions. The scope of work includes the installation and satisfactory commissioning of the equipment by the firm and training of personnel.

13. INSTALLATION REQUIREMENTS: The Supplier will clearly mention installation requirements on our part in the Technical bid.

14. INSTALLATION TIME: The company must install the equipment within a period of two months of the date of delivery of the equipment at University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh.

15. FREE INSTALLATION: The equipment and software should be installed and tested to the specifications free of cost.

16. LEGAL JURISDICTION: Any dispute in this regard of any term of the offer and on the supply of equipment is subject to *Chandigarh jurisdiction* only.

17. DESCRIPTIVE LITERATURE: A set of specifications, description and illustrated literature of the equipment and related peripherals *should accompany the Technical bid*.

18. USER AND SERVICE MANUALS: A set of User's manuals and Service manuals of the main instrument, attachments and related equipment (water chiller etc.) should be supplied with the equipment.

19. DEFECTIVE EQUIPMENT: If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made to him.

20. VALIDITY OF RATES: Rates quoted should be valid for at least *6 months* from the closing date of the tenders.

21. CONSISTENT PRICING: The rates quoted for the Equipments by the supplier shall in no case exceed the lowest price at which the supplier of this Equipment of identical description made to any other person/organization/Institution during the above said period and should attach an undertaking in this regard.

Technical Specifications

FT-NIR Spectrometer

Fourier Transform (FT) Near Infrared Spectrometer based dedicated analyzer for rapid non-destructive measurement of solids (powder, coarse granular material, pellets and flakes) and liquid (translucent and opaque liquids) no need for sample preparation and reagent. System must be capable of analyzing composition or material identification of sample. The system should allow method development, minimize implementation time and ensure seamless method transferability and should be complete in all respects.

FTNIR spectrometer should have sealed and desiccated optics. The system should have built in PC with Touch screen display. The optical system should be equipped with an internal integrating sphere for the measurement of solids in diffuse reflection. The large sampling area allows reproducible analysis of inhomogeneous samples. System must be capable to measure powdered, grains, gels and liquid samples. Must be capable to measuring Background without removing samples.

Interferometer: Michelson interferometer, permanently aligned, vibration insensitive, high stability. insensitive to the mechanical disturbances even in rough environments, provides accurate and reliable results for multiple parameters simultaneously, Gold coated optics.

IR Source: Air cooled Tungsten/ Halogen NIR source

Spectral Range : Dedicated NIR range atleast 12000 to 4000 cm^{-1}

Beamsplitter: Quartz substrate

Resolution: 4 cm^{-1} or better.

Wave number accuracy $\pm 0.1 \text{ cm}^{-1}$ or better across the range.

Wavenumber Reproducibility- 0.05 cm^{-1}

Type of Dectector: InGaAs detector covering the entire NIR wavelength range. TE-cooled and temperature-stabilized

Software: The complete licensed software with capability for method development, identification, qualitative and quantitative analysis. The complete licensed software with capability to develop the calibration methods by PLS and Chemo metric technique should be quoted.

Internal standard check: Instrument must have internal standard to automatically measure wavelength accuracy, signal to noise ratio and linearity check. Internal validation unit for performance qualification (PQ) and Operational Qualification.

Type of laser: HeNe/diode or equivalent

Measurement mode : Diffuse Reflectance, Transreflectance. Instrument should have the facility to do analysis indiffuse reflectance mode and all should be permanently fixed in the instrument. Manual Swapping of accessories are not acceptable.

Sample container: Glass petri dish or high performance cup or Glass Vials.

All the accessories should work without manual swapping in the system. There should not be condition to remove any of them manually to work with any of them.

Online branded UPS 5KVA with minimum 30 minute battery back up along with branded PC and Printer should be quoted. Minimum branded PC requirements to be arranged for successful functioning of FT-NIR system should be-

- i. Windows 7 Professional / Enterprise / Ultimate (64-bit) SP1
- ii. Processor: Intel Core i5 or higher and 1.4 GHz or faster
- iii. RAM: 4GB RAM or higher
- iv. HDD: 150 GB free hard disk space
- v. DRIVE: DVD-ROM drive
- vi. Network Adapter: 1 x 100 Mbit/s LAN (2x 100 Mbit/s LAN recommend)
- vii. Display Resolution: 1280x1024 display resolution

The party should give training at the time of installation about generating calibration of samples. Warranty should be for minimum 1 year.

