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P.Sarvaharana
Assistant Registrar (Project Purchase)

Ref : BIO/14-15/222/DBTX/GUHA
Date: 25.05.2015

Tender No: BIO/GUHA/015/2015

Due Date: 15.06.2015, 3.30PM

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “ Simulated Moving Bed (SMB) Chromatographic Equipment” conforming to the specifications given in Annexure:-I

Instructions to the Bidder

- (i) **Preparation of Bids:** - The tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid in separate envelopes.
- (ii) **Delivery of the tender:** - The tender shall be sent to the below-mentioned address either by post or by courier so as to reach this office before the due date and time specified in the Schedule. The offer/bid can also be dropped in the tender box on or before the due date and time specified in the schedule. The tender box is kept in the office of the “Assistant Registrar, Project Purchase” IC & SR Building 2nd floor, I.I.T. Madras, Chennai – 600 036, which is also the address for communication.
- (iii) **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders will be invited for opening of Technical bids. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- (iv) **Prices:** - The price should be quoted in nett per unit (after breakup) and must include all packing and delivery charges indicated separately for each item. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated.

The price should be quoted without custom duty and excise duty, since I.I.T. Madras is exempted from payment of Excise duty, and the Custom duty will be paid at concessional rate against duty exemption certificate.

In case of import supply, the price should be quoted on EX-WORKS/CIP basis indicating the mode of shipment.

- (v) **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- (vi) **Terms of Delivery:** - The item should be supplied to our Various Institutions as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions
- (vii) IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,


P.SARVAHARANA
ASSISTANT REGISTRAR
(Project Purchase)
IC&SR, I.I.T. Madras

SCHEDULE

Important Conditions:

1. The due date for the submission of the tender is **15.06.2015 at 3.30 pm.**
2. The offers / bids should be submitted in two bids systems (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and Financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Open Tender for "**Simulated Moving Bed (SMB) Chromatographic Equipment**" (as should be written on the left side of the Outer bigger cover and sealed. ✓ *per the Technical Specification mentioned in Annexure-1*)
3. **EMD:** - EMD should be at 2% (two percent) of the tender value quoted by the bidder. The EMD should be enclosed with the Financial bid which will not be opened for Technical evaluation. Enclosing the EMD in the Technical bid will automatically disqualify the tenderer. EMD should be in the form of DD in favour of "The Registrar, Indian Institute of Technology Madras" and payable at Chennai. The tender without EMD would be considered as UNRESPONSIVE and REJECTED. Photo/FAX copies of the Demand Draft/Banker's pay orders will not be accepted. No interest will be paid for the EMD and the EMD (Bid Security) will be refunded to the successful bidder on receipt of Performance Security.
4. **Performance Security:-** The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD or FD Receipt from the commercial bank or Bank Guarantee from any nationalized bank of India.

Only after submission of Performance Security, Purchase Order/Work Order will be released / L.C will be opened.

Performance Security in the form of Bank Guarantee:- In case, the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

5. If an Indian agent is involved, the following documents must be enclosed:
 - ① Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
 - ✓ The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.
6. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
7. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.
8. Documentary proof for the claimed position and repetition accuracies must be obtained from the principals and submitted along with the relevant pages of the standards.
9. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
10. **Validity:** Validity of Quotation not less than 90 days from the due date of tender.
11. **Delivery Schedule:-** The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
12. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
13. **Payment:-** No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
14. **Advance Payment:-** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the

Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.

15. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at Institution of IIT Madras
16. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately. (For more details please refer our Technical Specifications).
17. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
18. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
19. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
20. **Disputes and Jurisdiction:** - Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
21. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement:- It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE**



**Indian Institute of
Technology Madras**
Chennai - 600 036

Open Tender No.
BIO / GUHA / 015 / 2015
Sealed tenders in Two-Cover
System are invited from eligible
suppliers for

Supply of :
Simulated Moving Bed (SMB)
Chromatographic Equipment

Eligibility Criteria and Tender
Documents may be downloaded
from :

<http://tenders.iitm.ac.in/>
on or after 25.05.2015

Assistant Registrar
(Project Purchase)

3.5 X 6 CM

ANNEXURE - I

OPEN TENDER FOR SIMULATED MOVING BED (SMB) CHROMATOGRAPHIC SYSTEM

PURPOSE

Laboratory-scale and Pilot-scale separation of proteins, sugars and other biomolecules

SPECIFICATIONS

Columns

Number of columns: Minimum 4 (1 column per zone) and maximum 8 columns (2 columns per zone) for four zones

Column Dimensions: The system must be able to operate with two or more column sizes: Lab-scale columns should be in the range 10 mm ID x 250 mm; Pilot-scale columns should be in the range 25 mm ID x 300 mm

Material and packing: Stainless Steel (SS) columns packed with an appropriate matrix/resin to allow efficient separation of proteins and sugars. Column setup must allow removal of matrix/resin from column casing and reloading of fresh resins in the same column.

Column oven

Temperature setting range: 4°C - 80°C,

Temperature control precision: ± 0.5 °C or better

Overheat Protection: Maximum temperature protection adjustable from built-in alarm and auto shut off of heating control

Ports

Number of inlet ports: 2 (for 4 columns) and 4 (for 8 columns)

Number of outlet ports: 2 (for 4 columns) and 4 (for 8 columns)

Software must support systematic switch of inlet and outlet ports between columns at timed intervals

Pump

Dual-piston digital pump

Flow rate range: 0.001 - 12 ml/min or higher

Operating pressure: At least upto 20 bar

Number of pumps: 2 (for 4 columns) and 4 (for 8 columns)

Flow rate increment: 0.1 ml/min

Flow rate accuracy: $\pm 1\%$ or better

Flow rate precision less than $\pm 0.07\%$ RSD or better

Online monitoring system

UV-Visible Detector with 2 flow cells

Wavelength range: 190 – 840 nm

Detection: Simultaneous; up to 4 different wavelengths

Light source: Deuterium lamp with 2000 hr.

Accuracy of adjustment: ± 1 nm

Reproducibility: ± 0.5 nm

Absorbance range: 0 to 5 AU

Linearity < 5% up to 1 AU

Flow cells: In PEEK and/or SS from 0.3 – 2.4 mm path length with temperature control

Materials in contact with mobile phase: PTFE; fused silica, PEEK or stainless steel

Optional stand-alone control/ display

Software to support real time visualization of product peaks, quantification and analysis

Fraction collector (optional)

Number of fractions: Minimum 30

To collect fractions in 15 ml test tubes, 30 ml test tubes and 2 ml microfuge tubes

Materials of construction for contact parts

Acrylic, glass (borosilicate type I), hastelloy, Teflon®, EPDM, PEEK, FEP, PFA, or PTFE

Software

The necessary software for data acquisition, controlling all components, output display, data analyses, evaluation, reporting, storage etc. should be quoted. The software should be easy to handle and user friendly

Software should be straightforward to use- 32/64 bit Windows 7/8 based software

Standard sample schedule wizard

There should be an on-line help function

Installation and training

Installation should be done by the manufacturer. On-site training for operation of equipment (live demo of a model separation process), usage of software and application must be given to the users free of cost.

Warranty

The complete instrument should be under warranty at least for a period of 5 years from the date of installation. Additional cost, if any for extended warranty may be quoted.

In case of breakdown during the warranty period, a competent service engineer of the supplier should make as many visits as are necessary to rectify the problem and replace the faulty parts, without any liability of cost. Supplier should ensure to provide all spares required for making the instrument operational.

Manual

One set of operating manual and service manual including detailed drawings and circuit diagrams (in English) should be provided with the instrument.

Spare parts

The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the model of equipment supplied has been phased out. For frequently required spares, there should be adequate inventory with an Indian agency.

Others

Certifications/ Documentation: CE, IQ, OQ and PQ

System should be compatible with any other detector.

Supplier should have preferably service available in Chennai

Should have supplied to the equipment to IIT Madras or any reputed institution or industry in India (reference should be provided) and should be able to give a satisfactory demonstration of the product.