



**SARDAR VALLABHBHAI**

**NATIONAL INSTITUTE OF TECHNOLOGY, SURAT**

**Tel: 0261-2223371 to 74**

**Fax: 0261-2228394**

**SVNIT**

**TENDER NOTICE**

Sealed tenders are invited in duplicate from the supplier/manufacturer /distributor/ vendor for the supply of the following items.

| <b>Sr. No.</b> | <b>Name of Equipment / Instrument</b>                | <b>Qty.</b> |
|----------------|--|-------------|
| 1              | High Performance Liquid Chromatography (HPLC) System | 1 set       |

Tender documents will be available on request during office hours from **21/12/2018 to 25/01/2019** from Chemical Eng. Dept. of the institute on payment of Rs. 500/- towards non refundable tender fee to be remitted by cash for tender documents delivered in person or Rs. 550/- DD drawn in favour of "Research & Consulting A/c SVNIT Surat" in case tender documents are to be sent by post. The sealed tender documents will be accepted up to 5:00 PM, **25/01/2019** on all working days (Monday to Friday). The tentative date of opening of tender is **29/01/2019 at 3:00 p.m.** The tender documents may also be downloaded from institute website [www.svnit.ac.in](http://www.svnit.ac.in). However, the tender fee must be in the form of a DD for Rs. 500/- with the sealed tender documents. The director reserves the right to reject any or all the tender items without assigning any reasons whatsoever thereof.

**No. CHED/MAD-GCJ/SERB/1155/2018-19**

**DIRECTOR**

# **TENDER DOCUMENT**

## **High Performance Liquid Chromatography (HPLC) System**



**DEPARTMENT OF CHEMICAL ENGINEERING  
S. V. NATIONAL INSTITUTE OF TECHNOLOGY  
SURAT - 395007, GUJARAT  
(Year – 2018-19)**

## SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT

### TENDER DOCUMENT FOR HPLC SYSTEM WITH SPECIFICATIONS AS PER TECHNICAL SPECIFICATION SHEET AT CHED, SVNIT, SURAT

| Sr. No. | Name of Equipment / Instrument                       | Ref. No.                           | Qty.  |
|---------|--|------------------------------------|-------|
| 1       | High Performance Liquid Chromatography (HPLC) System | No. CHED/MAD-GCJ/SERB/1155/2018-19 | 1 set |

- The Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat (SVNIT, Surat) invites sealed bids from the experience & competent supplier for High Performance Liquid Chromatography (HPLC) System with specifications as per Technical Specification Sheet.
- Eligible bidders should provide items as per technical specification and services expectations and restore functionality as defined in “**Schedule of Technical Requirements**” in this tender; at the terms and conditions specified in the section “**General Terms & Conditions**”.
- The entire tender document comprises of various sections as listed below:
  1. Preamble (this page)
  2. Schedule of Tender
  3. Tender Form
  4. Technical Requirements Sheet
  5. General Terms & Conditions
  6. Declaration
  7. Summary Sheet
- A complete set of bidding documents must be downloaded from the institute web-site <http://www.svnit.ac.in>. Non-refundable tender fee as specified in the bid document by way of demand draft have to be remitted with the bid in favor of, **Research & Consulting A/c SVNIT Surat** Payable at Surat, with tender documents. Without the tender fees being remitted, the tender will not be considered.
- All bids must be accompanied by a **bid security (EMD)** as specified in the bid document and must be delivered to the above office latest by the date and time indicated.
- Bids will be opened in the presence of Bidders' representatives who may choose to attend on the specified date and time.
- In the event of the date specified for the bid receipt and opening, being declared as a closed holiday for SVNIT, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
- **The bid from the bidder who was found in fraud activity with SVNIT or on the name of SVNIT will not be allowed for bidding. The bid from such bidder will not be accepted and will be straight away rejected. Also, the bid submitted in consortium with such bidder will be rejected and if such information is found later then the order issued will be terminated immediately without any notice.**

## SECTION II: SCHEDULE OF TENDER

|    |  |   |
|----|--|---|
| 1. | Last date for submission of Tender at SVNIT  | <b>25/01/2019, upto 5:00 p.m.</b>   |
| 2. | Tentative Date of Opening of Tender  | <b>29/01/2019 at 3:00 p.m.</b>  |
| 3. | Place of opening of bids   | Office of Head,<br>Chemical Engineering Department,<br>SVNIT, Surat.  |
| 4. | Address for communication  | Director, S V National Institute of Technology,<br>Ichchhanath, Surat – 395007<br>Kind Attn: Dr Meghal A Desai, ChED        |
| 5. | Tender fee to be remitted with tender by only Demand Draft drawn in favor of<br><b>“Research &amp; Consulting A/c SVNIT Surat”</b><br>Payable at Surat | <b>Rs. 500/- (Rupees Five Hundred only)</b><br>DD No.: _____ & Date: _____<br>Name of Bank: _____<br>Branch: _____          |
| 6. | EMD to be remitted with tender by only Demand Draft drawn in favor of<br><b>“Research &amp; Consulting A/c SVNIT Surat”</b><br>Payable at Surat.       | <b>Rs. 42,000/- (Rupees Forty Two Thousand only)</b><br>DD No.: _____ & Date: _____<br>Name of Bank: _____<br>Branch: _____ |

Note:

- **Demand Draft of EMD and Tender Fee must be separate otherwise tender will be rejected.**
- Tender offer must be sent by **Post/ Registered A.D./Speed Post/Hand delivery** by authorized person of bidder with relevant proof only during office hours.
- **Price in Indian Rupees** at F.O.R. SVNIT, Surat.

**SECTION III: TENDER FORM**

FROM: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To,  
The Director,  
SVNIT, Surat

**Sub.: Tender for High Performance Liquid Chromatography (HPLC) System with Specifications as per Technical Specification Sheet.**

Sir,

With reference to above, we submit the following particulars of our Firm/Agency.

1. Name of the firm & address with direct :  
phone numbers
  
2. Name of the proprietor/chief of the firm :
3. Registration number & date :
4. Date of Establishment :
5. Present strength of the firm :
  - Any Certification Standards :
  - No. of Major Clients with execution of :  
work orders involving similar scope and  
magnitude of work
  - No. of sites handled :
6. Annual turnover in Rs. Lacs :  
(only in providing similar services)

**AUTHORISED SIGNATURE WITH STAMP**

## **SECTION IV: TECHNICAL REQUIREMENTS SHEET**

### **Technical Specification Sheet for High Performance Liquid Chromatography (HPLC) System**

#### **1. General Hardware Specifications:**

- The HPLC system should be an all-in-one system with all units i.e. solvent delivery pump, auto sampler, PDA Detector and column oven readily available and integrated into a single system.
- Usable solvent types should include both organic and aqueous solutions
- Operable pH range should be 1 to 13
- Automated functions should be available as Standard features for eg. time-controlled instrument auto-start up, auto purge and automatic validation

#### **2. Quaternary Gradient Solvent Delivery Unit with Degassing Unit:**

- It should be a Quaternary Low-Pressure Gradient pump & Parallel Double Plunger
- The flow rate should be set between 0.0001 to 10 ml/min
- System pressure range should be at least 6300 psi or above
- Flow rate accuracy should be  $\pm 1\%$  & precision should be less than  $\pm 0.06\%$  RSD
- The composition accuracy should be below 0.5% & composition precision below 0.1% RSD
- Degassing unit should have 4 lines or above. Degassing for auto sampler rinsing is preferred

#### **3. Auto-Sample Injector:**

- The auto sampler design should be a total sample injection design with variable injection volume
- Sample injection volume should be variable between 0.1  $\mu\text{L}$  to 100  $\mu\text{L}$
- The Carry over must be below 0.003 %
- Injection volume accuracy must be below 1%
- The injection precision should be less than 1.0% RSD
- Temperature setting range should be from 4 to 40°C
- Direct cooling type cooling system, with individual tray cooling capability should be available
- Auto pre-treatment function on injector should be available, which should have features like:

Ability to do Dilution: 2-100 times

Should be able to spike the set volume of internal standard or reaction reagent

Co-injection – Analysis with co-injection function should be available

#### **4. Column Oven:**

- It should be forced-air-circulation type for uniform temperature distribution with a quick feedback mechanism to maintain constant temperature level
- The temperature setting range should be ambient 4°C to 90°C
- Temperature setting in steps of 1°C
- Temperature accuracy should be  $\pm 0.8^\circ\text{C}$  & Temperature control precision should be  $< 0.2^\circ\text{C}$

**5. Photo Diode Array Detector: A Programmable Photo Diode Array Detector should be offered with the following Specifications:**

- Wavelength Range: 190-800 nm
- Spectral Resolution: 1.4nm
- No of photo PDA Elements: minimum 512 photodiodes
- Wavelength Accuracy <+/- 1 nm
- Width: 1.2nm (high resolution mode), 8nm (high sensitivity mode)
- Device Resolution: 0.6nm/pixel
- Sample Rate up to 100Hz
- Linearity should be up to 2 AU
- Noise level should be <+/-3 x 10<sup>-6</sup> AU

**Peak Deconvolution Algorithm for separating co-eluting impurities** – Function to enable the user to virtually separate two co-eluting or merged peaks, without having chromatographic separation. This feature can be extensively used in impurity profiling

**Dynamic Range Extension Calculation** – This feature enables the user to extend the detector range beyond the detector's detection limits. This can be profoundly used in Forced degradation studies, where the impurity concentration is very low as compared to the main peak

**6. Chromatography Software:**

- Operation of the system should be very easy and intuitive via a state-of-the-art 32/64 bit Windows 7 based software
- It should cover full one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis
- The data can be converted to other (AIA, ASCII) formats. Spread Sheet software and word processing software can be readily employed to provide data in tables or graphs through industry standard protocols
- Software must register all events (log files) audit trails for Data, Method, Batch, Report, System Policy and User Administration
- Software must display the online status of instruments like Name, Type, Analysis, Status, User Running, Queued Count, Estimated End time & should have In-built pdf generator feature
- Functions to check PC Information, Software Program Files Check, User List, User Groups, Group Rights, Security Policy, Instrument Connection information from software and printable in pdf format
- System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity

**Columns:**

- Analytical C18 Column 250 x 4.6, 5 micron – 1 no.

**Solvent Bottles and Vials:**

- 4 solvent bottles
- 1 pack of vials (1.5 mL)

**Optional Accessories:**

1. Branded UPS:- 5 KVA with one hour back up
2. Suitable branded PC and Printer
3. HPLC column (RP as well as Silica based)
4. Sample –Solvent filtration kit
5. Ultra Sonicator (Min. 3 L)
6. HPLC grade mobile phase standard solvents and buffers

The cost should include supply, delivery, installation and commissioning of the instrument

**Warranty:** The Complete system should be under Warranty for 2 Years from the date of installation.



## **SECTION V: GENERAL TERMS & CONDITIONS**

1. A complete set of bidding documents must be downloaded from the institute web-site <http://www.svnit.ac.in>. Non-refundable tender fee as specified in the bid document by way of demand draft have to be remitted with the bid in favour of **Research & Consulting A/c SVNIT Surat** payable at Surat with tender document. Without the tender fees being remitted, the tender will not be considered.
2. Bids will be opened in the presence of Bidders' representatives who may choose to attend on the specified date and time.
3. In the event of the date specified for the bid receipt and opening, being declared as a holiday for SVNIT, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
4. All bids must be accompanied by a **bid security (Earnest Money Deposit - EMD)** as specified in the bid document by way of demand draft, have to be remitted with the bid in favour of **Research & Consulting A/c SVNIT Surat**, payable at Surat with tender documents.
5. EMD shall not bear any interest and no claim shall be entertained against the institute in respect of the same. EMD will be refunded on receipt of written request from the bidder by A/C Payee cheque only to the Bidder who does not qualify or receive the work order.
6. Tenders not accompanied by earnest money will not be considered and will be summarily rejected. As the institute is managed by an autonomous body and hence registration with the **State Government Store Purchase Department and Small Scale Industry shall not be the reason for exemption from EMD**.
7. The tender documents with earnest money deposited previously for any other tender will not be considered and in such case tender will be rejected.
8. The tenders received after due date will be rejected.
9. **In case of Two Bid Tender the envelope containing the commercial/Price bid shall be opened only after the appropriate satisfaction and verification of the Technical Bid, by the SVNIT tender committee.**
10. The bidder shall explicitly express the compliance to all the terms and conditions with the signature, along with official stamp on each page of the tender document.
11. The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
12. In case of the authorized dealers quoting on behalf of manufacturers, a copy of certificate stating that the equipment being quoted by the bidder is on behalf of the concerned manufacturer and the manufacturer undertakes the responsibility to provide the after sales maintenance of the equipment must be enclosed without which bid will be rejected.
13. Consortium in any manner is not allowed in this Tender participation.
14. The bidder should clearly mention the after sales service facility/capability and provide the same during guarantee/warranty period.
15. The bidder shall arrange for repair/replace of the defective/worn out components of the equipment at this Institute premises during the guarantee period at purchaser's first instructions within stipulated Time. This

will be carried out at the cost of prospective Supplier and no charges whatsoever will be paid including Transportation, Courier Charges or T.A. and D.A. of the Service Engineer for the same.

16. Supplier is not able to rectify the defect or make the alternate arrangement within stipulated time limit. Institute can get it rectified and the amount so spent will be deducted from security deposit plus 10 % of the expense made.
17. The rates shall be quoted separately for each item, stating the specific model& part-code no etc, including the standard items to be supplied with the unit. The detailed specifications, physical dimensions, guarantee period, after sale services, etc should be clearly stated.
18. The rate for individual equipment should be quoted in Indian rupees for all Indigenous goods. In case of imported equipment's/instrument the institute is exempted from the payment of Excise and Customs duty only against the DSIR certification No. **TUV/RG-CDE (403)/2016** dated 21-02-2017 vide Government Notification No. 51/96. In case of foreign instruments, prospective Supplier should handle the custom clearance and transportation up to the destination i.e. SVNIT Surat, bearing all the cost for the same.
19. SVNIT being an Educational Technical Institute, the concession applicable in rates/Taxes under state/central govt. notification should be considered while quoting.
20. The institute CAN NOT issue 'C' or 'D' forms. However, a certificate regarding the exclusive use of equipment/Instrument/services to be procured, for the purpose of teaching /research, can be issued if any concession in this regard be made available to the purchaser.
21. The bid shall be finalized on the basis of the **Net Amount in rupees** (including cost of the Installation, Packing, Forwarding, Transportation, ad valorem duty, Trainings, all **other Taxes. etc.**) F.O.R. on SVNIT, Surat.
22. The bidder must deposit a **Security Deposit** at a rate of **10%** of work order at the time of accepting the work order within 15 days of receipt of work order otherwise penalty of 2% of the work order will be charged for every week delay and delay of maximum 15 days will be allowed else order will be treated as canceled without any notice and vender will be **blacklisted. The contract will commence only after Security Deposit and penalty if applicable is deposited.**
23. The Security Deposit shall be in the form of Bank guarantee and will remain **valid for Three year of warranty period plus one month.** Failure on the part of the prospective Supplier to provide the services as per the terms and conditions in this document shall constitute a breach of the terms and conditions of the contract and will entail forfeiture of the security deposit solely to the discretion of the Director, SVNIT.
24. Security deposit shall be released only after the satisfactory completion of work, due if any and faithful performance of the work and after receipt of application from bidder for the same. No interest will be paid on security deposit, in case of any default on the part of the bidder, the security deposit will be forfeited and the decision of SVNIT authorities in this regard will be treated as final and abiding to the contractor.
25. Failure of the successful bidder to comply with the above requirement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security (EMD), in which event SVNIT may make the award to the next lowest evaluated bidder or call for new bids at the discretion of Director, SVNIT.
26. The prospective Supplier should clearly state the delivery period and time period required for installation and commissioning of the equipment/services, from the date of receipt of firm order. In case, if prospective Supplier anticipates delivery of any or all items being delayed due to the reasons beyond his control, the prospective Supplier shall apply for suitable extension, starting the reason for the same and state his firm date of delivery. The Director, if feels suitable may extend the delivery date.

27. In case of delay of delivery of the unit beyond the stipulated / stated period, **a penalty of 1% (One percent) of total value of the ordered equipment** will be levied for each week of delay of part thereof.
28. The bidder may offer the Tender on their letter heads giving full specifications and references to the serial number of the item and schedule. **Bid must be written in ink, or typewritten, and correction, if any, should be attested. Pencilled quotations will not be accepted.**
29. Individuals signing the offers or documents connected with the contract must specifically state whether (s)he (they) is(are):
  - a. Signing as sole proprietor
  - b. Whether signing for the firm, and
  - c. In the case of companies or firms registered under the India partnership Act, the capacity in which (s)he (they) is (are) signing i.e. Secretary, manager, partner etc. or their attorney by production of document empowering him to do so.
30. Tender forms and schedules are not transferable.
31. Acceptance to abide by the conditions stipulated by the Director should be duly signed along with the offer. The absence of the acceptance of the conditions may result in the rejection of the offer.
32. The acceptance or rejection of the tender is left entirely to the discretion of the Director. The Director does not bind himself to accept the lowest or any tender and Director, reserves the right to split the tenders and place orders for the equipment covered by the lists on one or more tenders.
33. The Institute does not make payment in an advance against delivery/documents through Bank and hence, the prospective Supplier should specifically note that no advance payment will be made.
34. The Prospective Supplier warrants that the Goods supplied under this Contract are new, unused, of the **most recent or current models** and they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Prospective Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the SVNIT's Specifications) or from any act or omission of the Prospective Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
35. The Prospective supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to final destination as indicated in the Contract (In case of material damage, supplier have to bare all expenses/responsibility before material reaches to the final destination). The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
36. The tender should reach the SVNIT office on or before the last date and time specified earlier. Tenders received thereafter will not be considered, in any case.
37. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified and in any subsequent instructions ordered by the SVNIT.
38. The Goods supplied under the Contract shall be fully insured by the bidder in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

39. The Prospective Supplier's request(s) for payment shall be made to SVNIT in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted. Also along with these documents, the **prospective Supplier shall have to obtain a satisfactory installation certificate from the Concern Department of SVNIT –only after which the bill may be processed.**
40. Payment shall be made in Indian Rupees only.
41. Deviation from any requirements, specification, terms and condition mentioned in the tender document will not be entertained and tender will be rejected.
42. **The Director reserves the right to reject any or all the tenders without assigning any reasons thereof.**
43. **The bid from the vendor who has received the work order for providing such service to SVNIT and was unable to provide the service, will be rejected.**
44. **The bid from the bidder who was found in fraud activity with SVNIT or on the name of SVNIT will not be allowed for bidding. The bid from such bidder will not be accepted and will be straight away rejected. Also the bid submitted in consortium with such bidder will be rejected and if such information is found later then the work order issued will be terminated immediately without any notice.**
45. **All prospective bidders should keep looking at the institute website for information concerning the changes/amendments on the website.** No claim of any nature on any ground on inadequate information or knowledge or misunderstanding or otherwise in such respects will be admissible, later on.
46. Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the prospective Supplier does not accept the correction of errors, its bid will be rejected and its bid security (EMD) may be forfeited.
47. **No Bidder shall contact the SVNIT authorities on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the SVNIT, should be done in writing.**
48. Any effort by a Bidder to influence the SVNIT and its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.
49. Bidders shall not be under a declaration of ineligibility for any corrupt and fraudulent practices prosecuted by the court of law.
50. The tender, as quoted once shall be considered final. No change, alterations and modifications shall be permitted at a later stage. Incomplete tenders will be rejected without assigning any reason.
51. It is compulsory to attach all the mentioned and required documents at time of submission of tender. No additional attachment is permitted later on.
52. All documents along with tender form must be numbered. (1...n) and corresponding page number must be entered in the pre-qualify sheet, no further clarification will be entertained.
53. The bid from the vendor or its sister concern or group of company who has been black listed at any Government organization / Semi-Government Organization / public sector etc. will be rejected.

54. The bid for OEM who has been black listed at any Government organization / Semi-Government Organization / public sector etc. will be rejected.
55. Defective equipment should be replaced by next business day.
56. **The minimum validity period for the offer should be for 120 days.**
57. Successful bidder should raise the bill of the items actually installed, quantity shown in the tender document are for mere guideline and show approximate quantity.
58. Bidders should also provide the list of clients/customers where the particular equipment/ instrument has been supplied during last three years.
59. In case of any dispute, the matter will be subjected to SURAT jurisdiction only.

**DIRECTOR, SVNIT**

## SECTION VI: DECLARATION

**Tender reference no: CHED/MAD-GCJ/SERB/1155/2018-19**

**Date:**

I/We hereby declare that I/We have read all the terms and conditions of the Tender stated in all the sections in this tender document and as may be modified/mutually agreed upon, are acceptable and binding to me/us.

I/We have also verified that the bidding document contains at least the following

- A sealed envelope to contain the Demand Draft for EMD and the Demand Draft for tender fees.
- A sealed Envelope superscribed as “Techno-Commercial Statement” to contain at least the following:
  - The Tender document appropriately signed and stamped at all pages
  - General Terms & Conditions of Contract
  - Acceptance to all the Requirements;
  - Summary Sheet in the format laid in this document

I/We also understand that my/our bid without these three envelopes, enclosed in the main envelope, super scribed as “**High Performance Liquid Chromatography (HPLC) System**” with Specifications as per Technical Specification Sheet will be treated as an incomplete bid and is liable to be rejected.

Place:

Signature:

Date:

Name & Address of the Bidder with  
Office Stamp with all contact details

## SECTION VII: SUMMARY SHEET

Tender reference no: CHED/MAD-GCJ/SERB/1155/2018-19

Date:

| Sr. No.           | Description  | Qty. | Brand / Make & Model | Total Amount (Rs.) |
|-------------------|--|------|----------------------|--------------------|
| 1.                | High Performance Liquid Chromatography (HPLC) System |      |                      |                    |
|                   | Total in Rs.   |      |                      |                    |
|                   | Rebate / Concession in Rs.                           |      |                      |                    |
|                   | Net Amount   |      |                      |                    |
| Rupees (in Words) |  |      |                      |                    |

Note:

- All taxes should be inclusive.
- This summary sheet must be enclosed in Techno-Commercial envelop, otherwise the bid will be rejected.
- Unit prices of the item should be quoted, without which bid will be rejected
- Warranty should be **Two years** from the date of successful installation
- Validity of Quotation should be (minimum) 120 days from the date of bid opening.

I understand that any ambiguity in or incompletely filled SUMMARY SHEET will lead to rejection of offer without being cited any reasons.

Place:

Signature:

Date:

Name & Address of the Bidder with  
Office Stamp with all contact details