NOTICE INVITING TENDER

Ref: ARI/PUR/ADVT/2016-17/01

The institute has issued a Notice Inviting Tender (NIT) for the Supply, Installation, commissioning and satisfactory working demonstration and training of HPLC System with essential accessories and spares etc. (with buy-back of existing HPLC System). Details regarding EMD, specifications, tender terms & conditions and last date for submission of bids can be obtained from our Web site: www.aripune.org

There will be Pre-bid Meeting on 01.09.2016 at 11.00 a.m. in the Committee Room of MACS-ARI, Pune-4.

Email: director@aripune.org

Place: Pune
Date: 24.08.2016

Sd/-
DIRECTOR
MACS’s Agharkar Research Institute (ARI), Pune India (an Autonomous Body under Department of Science and Technology, Govt. of India, New Delhi), would like to invite sealed tenders - two bid system from bonafide Indian agent of foreign suppliers and indigenous manufacturers and/or their dealers for the supply, installation, commissioning and satisfactory working demonstration and training of the **HPLC System with essential accessories and spares etc. (with buy-back of existing HPLC system)**. The technical requirements are given in **Chapter 4: Schedule of Requirement / Specifications and Allied Technical details** are appended herewith.

**Item** : Supply and Installation of HPLC system with essential accessories and spares etc. (with buy-back of existing HPLC system)

**Tender Enquiry No.** : 20/2016-17/ATI/NR/Bioenergy/PI-582

**Date of Tender Enquiry** : 24th August 2016

**Date of Pre-bid Meeting** : 01st September 2016 at 11.00 a.m.

**Due Date & Time (For submission of Bids)** : 20th September 2016, up to 10.00 am

**Opening of Technical Bids** : 20th September 2016 at 11.30 am

Prospective Bidders may download the tender documents from ARI’s website [www.aripune.org](http://www.aripune.org) and submit their offers to The Director, Agharkar Research Institute, G.G. Agarkar Road, Pune – 411 004, India.

**NOTE :-**

The following details appeared on CPPP under "Basic details" may be read as:

1) General Technical Evaluation Allowed: Yes
2) Item wise Technical Evaluation Allowed: Yes
3) Is multi-currency allowed for BOQ: Yes
4) Is multi-currency allowed for Fee: Yes
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Chapter 1

INVITATION FOR BIDS

1. MACS's Agharkar Research Institute, an autonomous body under Department of Science and Technology, Government of India, invites sealed tenders for the supply, installation, commissioning and satisfactory working demonstration and training of the HPLC System with essential accessories and spares etc. (with buy-back of existing HPLC system). The Technical Specifications are given in Chapter 4 of this tender document.

2. The Bidders are requested to give detailed tender in two Bids consisting of: Part I Technical Bid, Part II Commercial Bid

3. The tender document is available at a Tender Cost of Rs. 100 (Rupees One Hundred Only) which is not refundable. If the tender document is downloaded from the website of the Institute, www.aripune.org, the bidders may include a demand draft/cheque drawn in favour of Director, ARI, payable at Pune at par. The bidders may also pay the tender fee in cash in the accounts section of ARI and attach the receipt to the bid document while submitting the bids. The tender documents can also be requested from the Institute either on e-mail or as a printed copy.

4. The schedule of submission of bids and opening of the bids is as follows:
   i) The tender documents should be dropped in the PURCHASE QUOTATION BOX located in a corridor of Administration Department of ARI and Second BOX located at Security Cabin of ARI. All tenders received by post/courier will also be dropped in the Tender Box after duly recording in a register and authenticated by Administrative Officer.

   ii) The Bid opening will be as follows:
   Place: Normally in the Committee Room, ARI, Pune 411 004. The security personnel will have the information of any change in the venue
   Time and date of submission: 20th September 2016 at 10.00 am.
   Time and date of opening Technical Bid: 20th September 2016 at 11.30 am.

5. Two Bid System:

Two bid system should be followed for this Tender. The bidder must submit the offer in two separate sealed envelopes. Both the technical and commercial bid envelopes should be properly sealed and clearly marked as Envelope 1 – Technical Bid and Envelope 2-Commercial Bid. Both these envelopes should be placed in a third envelope, properly sealed and subscribed with the following information:

- Tender Reference Number:
- Due date:
- Name of the Vendor:

and addressed to Director, Agharkar Research Institute, G.G. Agarkar Road, Pune 411 004.

6. Tenders which are submitted without following the two-bid Offer System will summarily be rejected.
7. Envelope No. 1: shall contain “Technical Bid” and Earnest Money Deposit (EMD).

No price information should be included in this Technical bid. Technical Bid should comprise the following:

a. Full technical details and components of the equipment. All products and services asked in the tender should be included. All pages of the quotation should be numbered. If the total number of pages of the quotation is 25, individual pages should be numbered as 1 of 25, 2 of 25, and so on. Each page of the bid and any corrections/striking/s/ overwriting’s should bear proper seal and signature of the authorized person of the firm. Unsigned Tenders shall be rejected.

b. A Demand Draft/Bank Guarantee of Rs. 1,05,000/- (Rs. One Lac Five Thousand Only.) OR US$ 1570.00 (US$ One Thousand Five Hundred Seventy only) in case of overseas bidders towards Earnest Money Deposit.

c. An Undertaking to agree to give a security deposit/Performance guarantee amounting to 10% of the purchase order value by way of Demand Draft/Bank Guarantee in favour of the Director, Agharkar Research Institute, Pune 411 004., in case of being the successful bidder, from a bank acceptable to the Institute, preferably a Nationalized bank. The validity of the security deposit should be delivery period plus warranty period plus sixty days.

d. The import license is covered under OGL policy of 2015-2020

e. BTN No, Country of Origin, port of shipment, address on which the order should be placed, No. of packing, approximate weight and volume of the consignment

f. If the bid is for branded makes, authorization letter from principals clearly indicating that the vendor is authorized to sell and provide services towards the items mentioned in this tender

g. If the bid is from an Indian agent of a foreign manufacturer, a valid authorization letter from the principals, including the manufacturer's/principal’s address and the Banker's details

h. Agreements/Purchase orders/Completion certificates, if any, for similar equipment at the Institute(s) under DST / DBT, details of such supplies for the preceding three years should be given together with the price eventually or finally paid.

i. Solvency certificate (not later than 12 months) issued by scheduled nationalized bank with which bidder holds the current account

j. Copy of VAT/LST/CST/WCT No. /PAN No. / and TIN No. allotted by the concerned authorities. If registered with National Small Scale Industries Corporation, the registration number, purpose of registration and the validity period of the registration and a copy of DGS&D registration, wherever applicable, should also be provided in Technical Bid.

k. A copy of the un-priced commercial bid (Please see Chapter 5 – Price Schedule)

l. Compliance sheet with any deviation with reference to the terms and specifications

m. List of organizations to whom similar equipment/ same model was supplied in the last 3 years

8. The item should be supplied with user manuals and service manuals including technical drawings should be provided to operate the system without any problem

9. The purpose of certain specific conditions is to get or procure best equipment/service etc. The opinion of the Technical Committee shall be the guiding factor for technical short-listing.

10. The Technical committee will have the option to short-list products which have higher specifications than what are specified in the tender.
11. **The Commercial Bid should contain:**

   a. Price schedule complete in all respects with proper seal and signature of authorized person.

   b. Prices should be quoted for each item separately for insurance claim or replacement, if necessary

   c. The optional and any other essential items/accessories required for maintenance of the equipment for the next 10 years should be specified in the offer separately.

   d. Comprehensive AMC for post-warranty period should be specified

   e. Discount offered should be mentioned clearly in the commercial bid only

   f. The Bidders are requested to quote for Educational Institutional Price for equipment and software

12. Pre-bid meeting will be arranged as per necessity, for which details will be published as and when such a meeting is proposed.

13. The bid can be submitted in person or through post/courier (ARI will not be responsible for delayed/late quotations submitted/sent by post/courier etc. resulting in disqualification/rejection any bid) so as to reach ARI on or before the due date and time. Fax/E-mail/telegraphic/Telex tenders will not be considered unless asked for.

14. **Date of opening of Tenders :**

   a. The technical bids will be opened on the date and time indicated in the tender document in the presence of the bidders who decide to be present. The bidders’ representatives shall sign an attendance sheet/register as a proof of having attended the meeting.

   b. The make and model of the quote will be announced in the meeting

   c. The technical bids will be evaluated to short-list the eligible bidders.

15. **Opening of Commercial Bids**

   a. The commercial bids will be opened only of the technical qualified bidders. The date of opening of the commercial bids will be communicated to the qualified bidders, whose representatives can remain present while opening the commercial bids. The bidders’ representatives shall sign an attendance sheet/register as a proof of having attended the meeting.

   b. The commercial bids of those bidders who were found technically deficient and are not qualified as per the tender as adjudged by the indenter/technical committee will be returned without opening

   c. The bidder’s name, bid prices, discounts, and such other details considered appropriate by the institute authorities will be announced at the time of the opening.

16. ARI reserves the right to accept the offer in full or parts or reject the offer summarily or partly.
17. The procurement of brand new HPLC System is on the basis of buy back of existing HPLC System strictly on "AS WHERE IS BASIS". The details of existing HPLC System (item to be trade out) are as per Annexure - I.

18. The existing HPLC System is available for inspection in the institute during office hours i.e. 9.00 am to 5.30 pm except Saturday, Sunday and Govt. Holidays.

19. The bidders are requested to submit their buy-back offer in separate envelope along with the commercial bid mentioning on the envelope that "Buy-Back offer for Existing Old HPLC System".

20. Director, ARI reserves the right to trade or not to trade the existing described HPLC System while purchasing the new. Therefore the bidders are requested to frame their Commercial bid accordingly covering both the options.

21. The successful bidder has to arrange to collect the trade out item from the institute within 15 days from the date of successful installation of brand new "HPLC System" on as is where basis at their own cost, failing which the successful bidder shall not have any claim on such trade out item. In that case the further action towards the disposal of such trade out item shall be decided as per ARI Procedure and decision of Director ARI, Pune. No labour or transportation will be provided by the institute for such trade out item.
Chapter 2

INSTRUCTIONS TO BIDDERS

1. General
1. The Bidders are requested to go through the tender document, schedule of items terms and conditions carefully before submitting the bids.

2. Bidders should quote strictly in accordance with the requirements. The Bidders’ conditions printed on the reverse of the tender/quote or anywhere else in the document shall not be binding on ARI.

3. Bidders shall adhere to the procedures and processes laid down in this document and shall follow fair and ethical practices of trade.

4. For branded items, only the authorized distributors/dealers/resellers are eligible to bid. In this case, the authorization certificate to this effect, issued by principles should be submitted along with the bid.

5. The tenders must be clearly written or typed without any cancellations/corrections or overwriting.

6. The makes/brand and name and address of the manufacturer, country of origin, country and port of shipment and currency in which rates are quoted are to be mentioned.

7. Conditional offers will not be accepted.

8. If more than one model is quoted by the bidders, the model which best suits the specifications will be selected by the indenter/technical committee and the commercial bid of only that model will be taken for comparative statement of quotations.

9. Based on the list of installations provided by the bidder, ARI will have its option to obtain details of the equipment, their performance, after sales service, etc. for evaluation of the tender, directly from the concerned labs/scientists, etc.

2. Modification of bids
2.1 At any time prior to the deadline for submission of bids, ARI may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder may modify the bid document.

2.2 The modifications will be posted on the website of the institute and the bidders are expected to look for any such modifications and they will be binding on them.

3. Bid preparation
3.1 The Tender document must be accompanied by Earnest Money Deposit as indicated earlier in the form of Demand Draft on any Nationalized Bank or Govt. approved banks (ICICI, Axis, HDFC Bank) drawn in favour of Director, ARI, payable at Pune. The EMD can be submitted either by the bidder or the Indian agent.

3.2 The Earnest Money Deposit can be also given in the form of Bank Guarantee from a Nationalized Bank with a validity of six months. No interest is payable on EMD.

3.3 The EMD/BG will be returned to the bidders/agents whose offer is not accepted by ARI within a week of opening the commercial bids of qualified bidders. In case of bidders whose offer is accepted, the EMD will be returned after submission of Security Deposit in the form of Bank Guarantee. However, if the return of EMD is delayed for any reason, no interest/penalty shall be payable to the bidders.

3.4 Bidders who submit the bids on behalf of their principals should enclose a valid agency letter issued by the Principal.
3.5 The successful bidder, on award of contract/order, must send the contract acceptance/order acceptance along with Security deposit as per 7(c) of Chapter 1 within 21 days of award of contract. The order acknowledgement/acceptance shall be marked on the original purchase order itself, to avoid any dispute and deviation later on. The order acknowledgement/acceptance so marked may be sent by fax to ARI for further processing, followed subsequently by sending the original copy by post/courier. The order acknowledgement/acceptance may also be scanned and sent by e-mail.

3.6 The EMD of successful bidders will be released within one week after installation and submission of security deposit/bank guarantee equivalent to 10% of the order value.

3.7 In case of bids in Foreign Currency, the Indian Representative / dealer can submit EMD/Security Deposit in Indian Rupees.

3.8 EMD shall be forfeited:

3.8.1. If the bidder withdraws the bid during the period of bid validity specified in the tender.

3.8.2. In case a successful bidder fails to furnish the Security Deposit/Performance Guarantee

4. Amalgamations, Acquisitions etc.

In the event of Manufacturer/supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfillment of contractual obligations, i.e. Supply, installation, commissioning, warranty, maintenance, replacement of parts, supply of spares and accessories as per requirement. An undertaking to this effect should be submitted.

5. Bid Validity

5.1 Bids shall be valid for a period of 120 days from the date of opening the Technical bid.

5.2 ARI may request the bidder to extend the validity. The bidder is free not to accept the request and in such an eventuality the EMD will be returned to the bidder. A bidder agreeing to the request for extension will not claim any price increase.

5.3 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

6. Submission of Bids

6.1 Bids shall be submitted to ARI before the time and date specified in the tender. In case the date happens to be a holiday, the date of submission will be the next immediate working day.

6.2 ARI may extend the deadline for submission of bids, which will be suitably modified on the website.

7. Late Bids

7.1. ARI will not be responsible for late delivery of tenders.

7.2. Similarly, tenders received via FAX/e-mail/telegraph/telex will not be accepted.
8. **Opening of Commercial Bids and Evaluation**

8.1. Commercial bids of only short-listed bidders will be opened in presence of the representatives of the bidders who decide to remain present during the bid opening, at a date and which will be informed in advance by e-mail.

8.2. The bidder’s representatives who are present for the tender opening will sign in an attendance register/sheet.

8.3. The bidder’s name, bid prices, discounts, and other details as found appropriate by the authorities will be announced at the time of the opening of commercial bids.

9. **Award of Contract**

9.1. ARI shall award the contract to eligible bidders whose bid has been determined as the lowest evaluated bid.

9.2. If more than one bidder quotes same lowest price, ARI reserves the right to award the contract either to any one or both.

9.3. ARI reserves the right at the time of the award of contract to increase or decrease the quantity of items specified in the Schedule of requirements without any change in price or other terms and conditions.

9.4. Firms which have failed to fulfill contractual obligations earlier are likely to be rejected and no communication will be entertained in this regard.

10. **Cargo Consolidation and Custom Clearance**

ARI has contract with Freight Forwarder and Custom House agent for all imports. Please note that all the consignments have to be routed through their associates only. **Acceptance of this condition should be indicated in the bid.** The details will be provided with the purchase order.

11. **Corrupt and Fraudulent Practices**

The bidders should exercise highest standards of ethics and fair practices. At any stage, if the Institute comes to know of any fraudulent or corrupt practices, the ARI reserves the right to cancel the contract at any stage before the delivery of the goods.

12. **Interpretation of the clauses in the Tender/Contract Document**

In case of dispute/ambiguity in the interpretation of any of the clauses in the Tender Document, the interpretation of Director, ARI shall be final.

13. A bidder has a right to question the bidding conditions, bidding process and / or rejection of its bid, as per the provision of rule 160 (ii) of GFR 2005.
Chapter 3

CONDITIONS OF CONTRACT

1. **Price**

1.1. The price quoted shall be considered final and no price escalation will be permitted.

1.2. In case of foreign currency bids, the price criteria should be on FOB basis.

1.3. Packaging, forwarding, freight, insurance, commissioning charges, if any, extra may be quoted separately in commercial bid.

1.4. In case the quote is Ex-works/FOB based, estimated insurance coverage charges may please be indicated.

1.5. CIF, Mumbai value both by Airfreight and Ocean freight.

1.6. In case of foreign quote, the mode of dispatch should be by Air Post Parcel/Ocean freight/Air Freight and on Freight to pay basis only. The approximate dimensions of the packages and weight of the consignment are to be indicated.

1.7. In case of INR bids, the price criteria should be on FOR, ARI, Pune. Govt. levies like central excise duty, sales tax, LBT, WCT etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should therefore be quoted accordingly giving the basic price, Central Excise Duty, VAT/Central Sales Tax etc. if any. Please note that ARI will supply exemption certificates for the above government levies, wherever applicable. ARI is exempted from payment of Excise duty vide Govt. Notification No. 10/97 Central Excise dated 1st March 1997.

1.8. ARI is also exempt from payment of Custom Duty vide Govt. Notification No. 51/96-Customs dated 23rd July 1996. However, as per the Govt. of India further notification No. 24/2002-Customs dated 1st March 2002 and notification No. 19/2006-Customs dated 1-3-2006 Custom Duty is levied on all imports meant for the Institute. Since the suppliers are requested to quote only on FOB basis, freight, insurance and custom duty as applicable to the Institute will be paid by us.

1.9. Bidders may also bid for high sea sales.

1.10. Please provide TIN no. of the firm along with the CST/WCT No. allotted by the concerned authorities. Also provide VAT registration, ECC No. /Excise Registration may be provided.

2. **Bank Charges**

All bank charges inside India will be borne by the institute. All bank charges outside India will be to the sellers account. For all amendments to the contract document, including in L/C, if requested by the beneficiary, the charges will be to the beneficiary’s account.

3. **Agency Commission and Services**

The Indian Agency Commission is payable in Indian currency only. The percentage of Indian Agency Commission shall be clearly indicated and will be paid after the receipt of the consignment in good condition and satisfactory installation and commissioning of the ordered equipment.
4. **Delivery schedule**

The bidders may please note that the delivery of the system should be strictly within three months from the date of placing firm order.

5. **Pre-installation**

The bidder has to state in detail the Electrical power/UPS requirements, floor space, Head room, foundation needed and also to state whether air-conditioned environment is need to house the instrument and to run the tests. Such pre-installation requirements may be mentioned in technical bid. Subsequently, before the equipment is received in the Institute, the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment. The bidder should be continuously monitoring the pre-installation requirements and see that everything is ready before the equipment is taken to the site for installation.

6. **Installation**

6.1. Bidder shall be responsible for installation/demonstration wherever applicable and for after sale service during the warranty and thereafter.

6.2. Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

7. **Warranty and Support**

7.1. The items covered by the schedule of requirement shall carry minimum one year comprehensive warranty from the date of acceptance of the equipment by the institute. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts.

7.2. The defects, if any, during the warranty period should be rectified free of cost. If this involves import of components, the resulting costs including those of customs, import, transport etc. should be borne by the vendor.

7.3. The software upgrades, if any, should be provided free of cost during the warranty period

7.4. The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on approved price list basis.

7.5. The AMC charges after warranty period are to be quoted by the bidders in the Commercial offer. This price could be one of the criteria for arriving at a successful bidder.

7.6. Vendor should indemnify, protect and save ARI against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademark, copyright etc. or such other statutory infringements in respect of all the equipment supplied by him.

7.7. In case of imports the insurance will be done by ARI. In case of Rupee transaction, the equipment to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at ARI.
8. **Payment**

8.1. For indigenous items, “100% payment shall be made within 30 days after delivery, installation, commissioning and on acceptance as per Purchase Order at site. If no Bank Guarantee as per Clause No. 7(c) of Chapter 1 is submitted along with the order acceptance in that case 90% payment shall be paid after delivery, installation, commissioning and on acceptance as per Purchase Order and balance 10% will be paid after expiry of warranty period plus sixty days”.

8.2. For imported items, “90% payment shall be made by sight draft/irrevocable Letter of Credit established in favour of the supplier through the State Bank of India, Deccan Gymkhana Branch, Pune 411 004 (India) for the order value, excluding the Agency Commission due to the Indian agent against the presentation of shipping documents. Balance 10% will be released after completion of satisfactory installation, commissioning, demonstration of the system, after imparting training. However, Letter of Credit/Sight Draft arrangement will be made for 100% of order value. If no bank guarantee as per Clause No. 7(c) of Chapter 1 is submitted with the order acceptance by the supplier in that case balance 10% will be paid after expiry of warranty period plus sixty days.

8.3. All bank charges inside India including opening of L/C shall be to ARI’s account whereas all charges outside India to Beneficiary’s account only.

8.4. The Indian Agency Commission will be paid in INR only after successful installation, commissioning and satisfactory demonstration and acceptance of the items by the user and after receipt of the performance security.

9. **Penalty for delays**

9.1. Since time is the essence of the contract, delivery period mentioned in the Purchase order should be strictly adhered to. Otherwise the bidder will forfeit the EMD and also LD clause will be enforced.

9.2. If the supplier fails to supply, install and commission the system as per the specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of the order value per every week of delay subject to a maximum of 10% beyond the due date.

9.3. ARI reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

9.4. Disputes, legal matters, court matters, if any, shall be subject to Pune Jurisdiction only.

10. **Force Majeure**

The Institute may consider relaxing the penalty and delivery requirements, as specified in this document if and to the extent that the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure.

Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars, hostilities, national emergencies, civil commotion and strikes at successful bidder's premises.

11. **Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be ARI, Pune. The jurisdiction of the courts shall be Pune, Maharashtra, India.
## SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED TECHNICAL DETAILS

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<th>Sr. No.</th>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>1</td>
<td>Supply and Installation of HPLC System with essential accessories and spares etc.</td>
<td>One No.</td>
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**Specifications for HPLC System:**

1. **Pump:**
   - Quaternary Pump
   - Pressure Pulsation: < 2% amplitude (typically < 1.0 %), or < 0.3 MPa, whatever is greater, at 1 mL/min isopropanol, at all pressures > 1 MPa
   - Flow Rate: 0.2 – 10.0 mL/min
   - Maximum Pressure: Operating range up to 60 MPa up to 5 mL/min and 20 MPa up to 10 mL/min
   - Flow rate accuracy: ±1% or 10 µl/min, whichever is greater
   - Flow rate precision: ≤0.07 % RSD, or ≤0.02 min SD whatever is greater
   - Plunger wash: Built-in
   - Integrated degassing unit for four channels, preferably with self-cleaning capability.

2. **Injector:**
   - Injection range: 0.1 – 100 µL
   - Precision: <0.25% RSD of peak areas from 5 µL to 100 µL
   - Pressure range: 0 – 60 MPa
   - Sample viscosity: 0.2 – 5 cp

3. **Autosampler with cooling unit:**
   - No. of samples: more than 100
   - Vial capacity: 1.0-2.0 ml
   - Sample injection system: Loop injection
   - Syringe capacity: Standard 175 µl
   - Sample injection volume: 0.1 to 50 µl (100 µl loop)
   - Carryover: not more than 0.004%
   - Flow line rinse capability both before and after sampling
   - Cooling Temperature range: from 4 °C to 5 °C below ambient
   - Cooling Temperature settable: from 4 – 40 °C in 1 ° increments
   - Cooling Temperature accuracy: ±2°C

4. **Gradient System:**
   - No. of solutions mixable: 4
   - Composition accuracy: ±0.5%

5. **Column Oven (with cooling facility):**
   - Temperature setting range: 4 to 85°C (in 1°C steps) or higher
   - Temperature accuracy: ≤1°C
   - Temperature precision: ≤0.1°C
   - Column accommodated: two or more
   - Preheating: Flow adjusted solvent pre-heating
   - It should have temperature control system

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### 6. Diode Array Detector:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty.</th>
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<tbody>
<tr>
<td>Detection type</td>
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<td>Lamp</td>
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<td>Wavelength Range</td>
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<td>Wavelength accuracy</td>
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<tr>
<td>Wavelength bunching</td>
<td>1 – 400 nm (programmable in steps of 1 nm)</td>
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<td>Diode width</td>
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<tr>
<td>Drift</td>
<td>0.9 x 10^{-3} AU/hr or less</td>
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<tr>
<td>Slit width</td>
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<td>Flow cell</td>
<td>Standard (13 μL volume, 12 MPa maximum pressure &amp; 10 mm cell path length)</td>
</tr>
<tr>
<td>Optional</td>
<td>Semi-Micro (500 nl volume, 5 MPa maximum pressure &amp; 10 mm cell path length)</td>
</tr>
</tbody>
</table>

### 7. Refractive Index (RI) Detector:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refractive index range</td>
<td>1 to 1.75 RIU</td>
</tr>
<tr>
<td>Noise</td>
<td>2.5 x 10^{-9} RIU or less</td>
</tr>
<tr>
<td>Drift</td>
<td>200 x 10^{-9} RIU/hr or less</td>
</tr>
<tr>
<td>Measurement range</td>
<td>up to 600 x 10^{-6} RIU or more</td>
</tr>
<tr>
<td>Temperature control range</td>
<td>5°C above ambient to 55°C</td>
</tr>
<tr>
<td>Valves</td>
<td>Automatic purge and automatic solvent recycle</td>
</tr>
<tr>
<td>Liquid contact materials</td>
<td>316 stainless steel, PTFE and quartz glass</td>
</tr>
<tr>
<td>Detector zero</td>
<td>automatic zero before analysis</td>
</tr>
<tr>
<td>Flow rate range</td>
<td>0.2 to 5 ml/min or above</td>
</tr>
<tr>
<td>Data rate</td>
<td>up to 74 Hz</td>
</tr>
<tr>
<td>Flow cell</td>
<td>8μL volume, 0.5 MPa maximum pressure &amp; 5 mL/min (100% water) maximum flow rate</td>
</tr>
</tbody>
</table>

### 8. Fluorescence Detector:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light source</td>
<td>Xenon lamp with a lifetime of 4000 h or more</td>
</tr>
<tr>
<td>Wavelength Range</td>
<td>Excitation (200-850 nm or more) &amp; Emission (250-730 nm or more)</td>
</tr>
<tr>
<td>Wavelength accuracy</td>
<td>± 3nm</td>
</tr>
<tr>
<td>Wavelength reproducibility</td>
<td>± 0.2nm</td>
</tr>
<tr>
<td>Spectrum acquisition</td>
<td>Scan speed: 28 ms per datapoint, Step size: 1 – 20 nm</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>S/N ratio at Raman peak of water: 900 or better</td>
</tr>
<tr>
<td>Data rate</td>
<td>up to 148 Hz</td>
</tr>
<tr>
<td>Flow cell</td>
<td>Standard (8 μL volume and 2 MPa maximum pressure)</td>
</tr>
<tr>
<td>Optional</td>
<td>Semi-Micro (4 μL volume and 2 MPa maximum pressure)</td>
</tr>
</tbody>
</table>
9. Data management System

**Hardware:**
- Intel Core i7 processor, 4.0GB RAM, 1 TB Hard Disk, 25” LED Monitor, DVD-RW, Pre-loaded with compatible operating system, Multifunction Laser jet Printer
- 1 TB portable hard disk for data storage
- Online UPS (6KVa)

**Software:**
- Suitable Software for controlling the HPLC and detector and for data processing.

10. Sample & solvent filtration kit with vacuum pump

**Solvent Filtration**
- Filtration Assembly with 2 ltr Bottom flask

**Vacuum Pump:**
- Vacuum Pump - 22" Hg (554mm Hg)

**Sample Filtration Kit**
- Filter Holder - Dia 47mm, S.S.
- Nylon 66 Membrane Filter (0.2 u), diam. 47mm

**Sample Filtration Kit**
- Filter Holder - Dia 13mm, S.S.
- 5ml Glass Tight Syringe
- Nylon 66 Membrane Filter (0.2 u), diam. 13mm

11. The instrument should be supplied with following accessories:
- Tool Kit for maintenance
- C-18 Column analytical
- Supply of at least 500 sample vials of 1.5ml capacity, complete with caps, septa and racks
- Spare lamps (2 no. each) of Xenon, Deuterium and Tungsten

12. The system should have leak sensors as safety feature

13. Compliance statement for specifications is a must

14. Warranty (minimum 1 year or more)
Chapter 5

BILL OF MATERIALS AND PRICE SCHEDULE

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Catalogue No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Unit Price</th>
<th>Duties + Taxes</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Installation charges if any: ________________________________

Packing & Forwarding charges if any: ________________________________

Insurance charges if any: ________________________________

Transport charges if any: ________________________________

Other charges if any (please specify): ________________________________

GRAND TOTAL: ________________________________

---

Buy Back Offer for existing HPLC System as follows:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Qty.</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Existing HPLC System (details as mentioned in the Annexure - I)</td>
<td>One No.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Add: Vat extra at actual</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Rs. in Words</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chapter 6

BID SECURITY FORM

Whereas …………………………….* (hereinafter called “the Bidder”) has submitted its bid dated ……………………………. (date of submission of bid) for the supply of ………………………………………………………………………………………………………….. (name and/or description of the goods) (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE …………………………………… (name of the bank) of ……………………………. (name of country), having our registered office at …………………………………… (address of bank) (hereinafter called “the Bank”), are bound unto ………………………………………. (name of Purchaser) (hereinafter called “the Purchaser”) in the sum of ……………………………………. for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this …………………. day of …………………. 20 …………………. THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
   a) fails or refuses to execute the Contract Form if required; or
   b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or condition.

This guarantee shall remain in force up to and including sixty (60) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

…………………………………..

* Name of Bidder

(Signature of the Bank)
Chapter 7

CHECK LIST: ELIGIBILITY CRITERIA FOR BIDDERS

The bidders are requested to complete the check list by striking out non-applicable options. The bidders are requested to confirm / ensure that the details of the same has been enclosed / included in the bid. Also please ensure that the written reply on bidder’s letter head with reference to below mentioned Sr. No. 3, 11 to 18 is enclosed.

1. Two separate bids dully filled in and signed in sealed envelopes YES/NO
   (a) Technical and (b) commercial

2. The Demand Draft/ BG for Rs. --------- towards EMD is enclosed YES/NO

3. Undertaking that successful bidder agrees to give a 10% security deposit/ Performance Bank guarantee YES/NO

4. Authorization letter from the Principals YES/NO

5. Self-attested Sales Tax Registration certificate (CST/VAT etc.) YES/NO

6. Solvency certificate issued by scheduled/nationalized bank with which The bidder holds the account YES/NO

7. Copy of PAN No. allotted by the relevant authorities YES/NO

8. A List of deliverables YES/NO

9. Copy of ISO 9002 or equivalent certificate YES/NO

10. Copy of DGS & D Registration, if any YES/NO

11. Compliance sheet with deviations with respect to the terms YES/NO

12. Acceptance of our Cargo Agent YES/NO

13. Bank charges outside India to the vendors account YES/NO

14. LD Clause agreeable YES/NO

15. Supply of spares for 10 years YES/NO

16. Free replacement during the warranty period YES/NO

17. Amalgamations/agreements: Successor agreeable to fulfill all contractual obligations YES/NO

18. History of Service and Support to MACS-Agharkar Research Institute given by the bidder in the past purchases. YES/NO

Place : Signature of Authorized signatory & Seal

Date :
Annexure – I

The details of existing HPLC System are as follows:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Date of Purchase</th>
<th>Purchase Value</th>
</tr>
</thead>
</table>
| 1       | HPLC System:  
Make – Dionex  
Model – HPG P680A  
(Location: Bioenergy Unit)  
ARI ID No.: ARI/APEQ/579/HPLC-04 | One No. | 15.07.2002 | US$ 39605.00 (INR. 2137536.15) |