

**Global Tender Notification for the Purchase of  
a Binary Gradient HPLC system with PDA Detector**

Summary

1.	Tender Number	OC/UM/2021/HPLC-Global
2.	Tender Date	2 <sup>nd</sup> June 2021
3.	Item Description	Binary gradient HPLC system with PDA detector
4.	Tender Type	Two bid system: (a) Technical Bid (Part A) (b) Commercial Bid (Part B)
5.	Place of tender submission	Department Office, room 44 Department of Organic Chemistry Indian Institute of Science Bengaluru 560012
6.	Last Date & Time for submission of tender	23 <sup>rd</sup> June, 2021, 5:00 PM

## To whom it may concern

This is a Global Tender Notification for procurement of **Binary gradient HPLC system with PDA detector** at the department of Organic Chemistry (OC), Indian Institute of Science, Bangalore.

All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact listed below.

The deadline for submission of proposals is 23<sup>rd</sup> June 2021 by 5:00 PM. Proposals should arrive at the Department office, room 44, Department of Organic Chemistry, Indian Institute of Science, Bangalore, Karnataka 560012, India.

Direct all questions concerning the acquisition to Prof. Uday Maitra by email only at: [maitra@iisc.ac.in](mailto:maitra@iisc.ac.in)

### General Terms and Conditions

1. The bid should be submitted in the two-cover system, i.e. technical bid and commercial bid separately in sealed covers. The technical bid should contain all commercial terms and conditions, except the price. The bids should be valid for at least 90 days from the last date of submission of the quotation.
2. The technical bid must contain a point-by-point technical compliance document. The technical proposal should contain a compliance table that should describe your compliance in a "yes" or "no" response against each of the items in the table listed in this RFQ. If the response is "no", the second column should state the extent of deviation. The third column should state the reason for the deviation, if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirement table below.
3. The commercial bid must include the price of the instrument (CIF, Bangalore, applicable Custom Duty will be borne by the Institute) and all components including controller accessories indicating component-wise and itemized breakup. Provide certificates for country origin of manufacturing for each line items. Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (installed and ready to use) in our facility.
4. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
5. The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order. It should be clearly mentioned in the technical and commercial bids.
6. All the quotations must be valid for at least 90 days from the last date of tender submission.
7. List of customers and references: The Bidder should have supplied similar equipment in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISC, IISER, NIT). Please provide the details and contact information.
8. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect should be provided.

9. Items in addition to that listed in the technical table that you would like to bring to our attention, such as data sheets, technical plots etc. can be listed at the end of the compliance table.
10. Vendors are encouraged to highlight the advantage of their tools over comparable tools from the competitors.
11. Mode of Shipment: the equipment must be shipped via air only, insured and transported to the installation site at IISc by the supplier.
12. If needed, a meeting for any technical clarifications can be scheduled with the undersigned by sending an email.
13. Warranty terms and additional warranty options is a must for all the components. Please specify the service plan like whether the local distributor will address the issue or the parent company.
14. Terms and conditions for the annual maintenance contract beyond the warranty period should be mentioned.
15. After the award of purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order.
16. Tender documents that do not satisfy the “Terms and Conditions” listed herein will be disqualified.
17. The Institute reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids, at any time prior to the award of contract without thereby incurring any liability of the affected bidder or bidders.

Technical requirements: Please note that the requirements listed below are only guidelines. Vendors are requested to quote for equipment that meet the criteria to the best extent possible and list deviations, if any. Deviations are NOT an automatic reason for disqualification. They will be discussed by a technical group prior to making an informed decision.

## Binary gradient HPLC system with PDA detector – technical specifications

High pressure pumps	<ul style="list-style-type: none"> <li>• Two high pressure binary gradient enabled pumps with high pressure mixing</li> <li>• <math>\geq 40</math> MPa pressure capability</li> <li>• 0.01-10 mL/min flow range</li> <li>• Gradient step: <math>\leq 0.1\%</math></li> <li>• Leakage sensor</li> </ul>
Pump spares (in addition to standard spares)	<ul style="list-style-type: none"> <li>• One set of plunger seals</li> <li>• One set of check valves</li> </ul>
Industry standard injector	<ul style="list-style-type: none"> <li>• 5 - 100 <math>\mu</math>L injection capability with 20 <math>\mu</math>L and 100 <math>\mu</math>L injection loops</li> <li>• Auto-start capability upon injection</li> </ul>
PDA Detector	<ul style="list-style-type: none"> <li>• Photodiode array UV-VIS detector with 8 <math>\mu</math>L cell</li> <li>• Wavelength range: 190-800 nm</li> <li>• Wavelength accuracy: <math>\leq \pm 1</math> nm</li> <li>• Simultaneous monitoring at multiple wavelengths</li> <li>• Sensitivity <math>&lt; 3</math> <math>\mu</math>AU</li> <li>• Spectral resolution: <math>&lt; \pm 2</math> nm</li> </ul>
Software	<ul style="list-style-type: none"> <li>• Appropriate software for the control of equipment and analysis of chromatograms</li> <li>• Software to be installed on another PC</li> </ul>
Integrated System controller	<ul style="list-style-type: none"> <li>• To control the operation of the entire system</li> </ul>
Columns	<ul style="list-style-type: none"> <li>• 250 mm x 4.6 mm 5-micron C-18 column (2)</li> <li>• 150 mm x 4.6 mm 3-micron C-18 column (1)</li> <li>• C-18 guard columns for above mentioned items– cartridge type (2 packs of 4) with a spare cartridge.</li> </ul>
HPLC microliter syringe	<ul style="list-style-type: none"> <li>• 25 <math>\mu</math>L (2)</li> <li>• 100 <math>\mu</math>L (1)</li> </ul>
Reservoir tray	
Solvent bottles with cap	5
Branded PC with HDD and 22" monitor; brand(s) to be specified for PC/monitor	
All connectors and essential accessories for the full installation and working of the HPLC system	
Standard accessories with additional SS/plastic tubing, ferrules, wrenches etc.	
<b>Optional items</b>	
Extended warranty for 2 years and 2+2 years; AMC options	
250 mm x 10 mm ID C-18 Semi preparative column (1)	
Monochrome laser printer (1)	

### Other requirements:

1.	Compatible operating system(s) for the interface software should be specified. Suitable software drivers available should be specified.
2.	Please include other options currently available which can be added in the future.
3.	Installation and Training: should be provided free of cost.
4.	The cost of shipping to IISc should be included.
5.	List of acceptance tests for on-site (vendor) inspection and after installation at IISc.
6.	A set of basic experiments for performing routine checks of acceptable operation with clear instructions to be provided. A standard sample to estimate column efficiency should be included.
7.	The payment terms should be specified in the commercial proposal which should be consistent with IISc's domestic purchase policies.
8.	Please provide details of the number of trained personnel in India, number in southern region or in Bangalore who can service the instrument.

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