

OPEN DOMESTIC TENDER NOTICE

Supply and Installation of Automated High Performance
Liquid Chromatography

Quantity: Two Units



**Instrumentation and Applied Physics,
Indian Institute of Science, Bangalore**

MAY 27, 2024

Bangalore 560012

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Section 1- Bid Schedule

1	Tender No	
2	Tender Date	27.05.2024
3	Item Description	Supply and Installation of Automated High Performance Liquid chromatography system for detection and quantification of Sickle cell anemia.
4	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	Chairperson Office Ground Floor Instrumentation and Applied Physics Indian Institute of Science, Bangalore 560012
6	Last Date & Time for submission of tender	17.06.2024
7	For further clarification	Prof. Sai Siva Gorthi IAP Annex Instrumentation and Applied Physics Indian Institute of Science, Bangalore 560012 Email: saisiva@iisc.ac.in Phone: +91-80-2293-3502

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The bidder must have an installation base of over 100 in India and at least one in Karnataka for doing Haemoglobinopathy (Sickle-Cell Anemia / Thalassemia) of which there should be at least 20 installations in NABL or CAP accredited Laboratories for screening of hemoglobinopathies. Should be able to provide the product and service support in Karnataka.
2. The Bidder should belong to either class 1 or class 2 supplier distinguished by their “local content” as defined by recent edits to GFR (please refer to annexure 1 attached). They should mention clearly which class they belong to in the cover letter.
 - a) Class 1 supplier: Goods and services should have local content of equal to or more than 50%.
 - b) Class 2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.
 - c) Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
3. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
4. 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 has to be given as per Annexure 3.
5. Original Invoice, Original Warranty Certificate, Original Test Reports should be produced for all imported items from OEM (Original Equipment Manufacturer) at the time of supply of the equipment.
6. System Catalogue should be produced with the Technical Bid.
7. Manufacturer should have ISO or equivalent international standard certificate. Please attach the required certificate with the bid.
8. Supplier will support the user with all the spares for a minimum period of 5 years.
9. Details of experienced service engineer including contact detail should be provided in tender document.
10. Bidder shall have to submit audited accounts (Balance sheet profit and loss account) of last three financial year 2020-21, 2021-22 and 2022-23. Audited statement must be signed and stamped by qualified chartered accounted.
11. Bidder must submit Income Tax return for assessment year – 2020-21, 2021-22 and 2022-23.
12. Bidder must submit up to date sales tax or GST clearance certificate.
13. The system should be US FDA / EU CE and ISO 13485 certified; certificate should be provided along with the instrument.
14. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to the Class-1 supplier.
15. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.

Section 3 – Terms and Conditions

A) Submission of Tender:

1. All documentations in the tender should be in English. However, if the documentation is any other language, the bidder should provide the translated version to English. If there is any discrepancy between both versions, the English version will be considered authentic and valid.
2. Tender should be submitted in two envelopes (two bid system).
 - a. Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications.

The technical proposal should contain a technical compliance table with 5 columns.

- i. The first column must list the technical requirements (as in Section-4 of this tender document), in the order that they are given in the technical requirement below.
 - ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible with technical details in annexure.
 - iii. The third column should describe your compliance with a “Yes” or “No” only. Ensure that the entries in column 2 and column 3 are consistent.
 - iv. The fourth column should state the reasons/explanations/context for deviations, if any.
 - v. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details.
- b. Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, **as per the format of quotation provided in tender**, and other commercial terms and conditions.

3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date; the sealed covers should be superscripted as “Technical Bid” or “Price Bid”. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach Chairperson Office, Instrumentation and Applied Physics, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
5. All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.

6. The price must be quoted in INR (Indian Rupee). Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. The quotations should be on FOR-IISc Bangalore basis in INR only.
7. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.
8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. Incomplete bids will be summarily rejected.

B) Cancellation of Tender:

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

C) Validity of the Offer:

The offer shall be valid at least 90 Days from the date of opening of the commercial bid.

D) Evaluation of Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre- qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:

- a. Non-submission of complete offers.
 - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall consider that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained. Further if the BIDDER is silent or does not give detail justification of their claim regarding those mentioned in technical specifications, IISc Bangalore reserves the full right to reject the tender due to non-compliance without any further discussion.
 7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
 8. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing and post processing, optional items, recommended spares, warranty, annual maintenance contract.

E) Pre-requisites:

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

F) Warranty:

The complete system is to be under warranty period of minimum 3 years (year wise breakup value should be shown in the commercial bid) including free supply of consumables, spare parts and data analysis software from the date of functional installation. If the instrument is found to be defective, it has to be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc, Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

G) Annual Maintenance Contract:

An annual maintenance contract for a period of at least 3 years post warranty should be provided on completion of warranty period. The AMC costs will not be considered towards classifying the domestic nature (class 1 or class 2) of the vendor (see eligibility criteria in section 2). In the bid AMC charge should also be provided.

H) Purchase Order:

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.

2. The quantity of the items in tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc Bangalore reserves the right to cancel or amend the contract.

I) Delivery, Installation and Training:

The bidder shall provide the lead time from the date of receipt of purchase order to delivery, installation and made functional at IISc Bangalore / District Health Centers of Chamarajanagar and/or Kodagu. The system should be delivered, installed and made functional **within 3 weeks** from the date of receipt of purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed.

The bidder should also arrange for technical training to the local facility technologists and users.

J) Payment Terms:

100% payments (except AMC) will be released after completion delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of warranty period) will be released on half-yearly basis at the end of each six months subject to satisfactory services. The AMC will be comprehensive. Price basis must be on FOR-IISc Bangalore basis only. As per GFR no advance payment can be made to domestic vendors, unless an equal amount of bank guarantee is provided.

K) Statutory Variation:

Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed onto IISc, Bangalore.

L) 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 Bangalore, India.

M) General:

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.

3. The bidder may visit the installation site before submission of tender, with prior intimation.
4. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

Section 4 – Technical Specifications

A. Technical Specifications of the Automated High Performance Liquid Chromatography

	Specifications
1	Automated HPLC system (with continues buffer gradient), must be dedicated to Thalassaemia and Haemoglobinopathy testing and screening.
2	The system should be able to screen and quantitate haemoglobins Hb A2, Hb A and Hb F and detect the most commonly occurring abnormal hemoglobins like Hb S, Hb D, Hb E, Hb C, Hb Q- India, Hb D-Iran, Hb Lepore, Hb Saurashtra and other rare abnormal hemoglobins in both homozygous and in single and double heterozygous conditions. Prior evidence in terms of scientific publications which demonstrates the system can detect rare hemoglobin variants should be attached.
3	The system should have the provision of presumptive identification of Hb Barts and Hb H and various alpha chain variants like Hb J Meerut, Constant Spring etc.
4	The company must have an installation base of over 100 in India and at least one in Karnataka for doing Thalassaemia and Haemoglobinopathy of which there should be atleast 20 installation in NABL or CAP accredited Laboratories for thalassemia and hemoglobinopathies screening. Should be able to provide the product and service support in Karnataka.
5	The company must have at least 20 years of presence in India with availability of system & reagents for thalassaemia and haemoglobinopathies testing. And must have users for Haemoglobinopathies for a minimum of last 10 years.
6	A minimum of 10 customer satisfaction certificates from Government as well as private labs should be provided along with their contact details.
7	The HPLC system should have a dual piston pump so that each elution buffer has a different pump and the buffers work efficiently to give a continuous and a precise buffer gradient.
8	The system should not take more than 5 to 10 mins for the screening of thalassemia and hemoglobinopathies.
9	The kit size should not be of more than 500 tests so that it can be consumed well within the expiry date and within 1 to 2 months.
10	The system should have spinning of vacutainer before aspiration to avoid improper sampling.

11	The system should have automatic barcode positioning and reading facility. The barcode should be able to auto align to the barcode reader. No manual intervention should be needed.
12	The system should have continuous or batch wise sample analysis with random access and sample bar code sensor
13	The system should have the facility of primary tube sampling and direct dilution of the samples without manual intervention.
14	The system should have Tube Venting Capabilities so that there is no resistance caused while pulling blood from the tube which can impact the repeatability of results.
15	Complete ready to use reagent kit must be provided with buffers in plastic or glass tanks to view the levels of buffers during the run. Columns, primers, calibrators with diluent, CD to upload reagent information (such as lot number, expiry date so that user don't do individual entry and avoid errors). Further, having sample vials within the kit as a single kit makes it easy to calculate cost per test.
16	All reagents required should be of the same lot for reliability of result and cost calculation per test.
17	The system should have an inbuilt system check facility which checks that all the system parameters (eg, cartridge, buffer, reagent, waste etc.) are ready before the sample analysis.
18	The buffers must be provided within plastic/glass tanks to view the levels of buffers during the run. Also there should be a system which monitors liquid volume by weight and an alarm is generated by software if the buffer reduces than the set volume.
19	The system should have automated sampler module which can accommodate about 10 sample racks together with each sample rack to be barcoded. Further the system should offer continuous loading facility during the run.
20	The system should have easy maintenance which should not incur additional cost of purchasing cleaning material or solutions.
21	The system should not require adjustment of flow rates for maintaining of Retention time by the user.
22	The system should have dedicated computer, laser printer and software, which enables the system for bidirectional interfacing. Moreover the software should have customized reporting format, giving info on the subtype and quantity of hemoglobin detected. Software should enable result storage of minimum 10000 chromatograms without any additional purchase. It should also have a facility to update kit parameters – calibrator values, integration parameter, lot number, expiry details of reagent etc. through a CD/harddisk.
23	It should have a sufficient data hard disk approx. 128GB and a remote data access feature when connected to LAN or Intranet.
24	The system must have a software for real-time viewing of the analysis of the samples.
25	It should have an offline hardcopy of library and an online chromatogram library which should be a searchable database with more than 400 chromatograms of fully classified abnormal hemoglobins and thalassemias along with their clinical and molecular classification. Also, a hard copy of most commonly occurring hemoglobin variants and thalassemias seen in India as a quick guide should be provided.

26	The HPLC system must have been used in govt. sickle-cell anemia or thalassaemia screening programs in India and a minimum of 10 Govt user list of the Sickle-cell Anemia / Thalassaemia kit should be provided. Need to have publications to understand that the system has been used in the screening programs in India.
27	The system should have an on board Quality Control (QC) Menu capable of storing the quality control data and printing the standard deviation, Coefficient of Variation values and Levey-Jennings (LJ) chart.
28	The company should provide normal and abnormal third party controls for Hb A2, Hb F and HbS and provide External Quality Assurance Scheme (EQAS) to help compare results with similar users worldwide.
29	The result from the machine should be presented in a symmetrical order (vertical chromatogram) with proper description of date, time of injection, sample ID, age, sex, total area count, different fractions of haemoglobins along with their quantity with flagging for out-of-range values and the chromatogram with each peak marked with their respective retention time for easy viewing of the results
30	It should have a built in vacuum-based degassing system, automatic equilibration and wash procedures and have built in column thermostat for reproducibility.
31	The system should be capable of holding about 10 racks at a time so that at least 100 samples can be loaded at a time.
32	The system should have in-kit external standards for instrument calibration ensuring accurate quantitation of results. The calibration should not be more than 1 point calibration. The system should also have in-kit primer to prime the column as and when needed.
33	The system should have a polyethylene waste tank, which has a sensor to detect a 95% full tank and gives an alarm when sensor is tripped, as well as built in alarms for calibration and control failures for equipment.
34	The software should automatically keep a cartridge/column count and no manual monitoring should be required.
35	The system should be US FDA / EU CE and ISO 13485 certified.
36	The waste tank should be sufficiently big (at least 10 liters) so that it reduces user interference with the machine and help in smooth running of large volume of samples without interruption.
37	The reagent containers should be large enough to run about 150 samples at a stretch without changing any buffers so that the user does not need to interact with the machine regularly. The reagents should be in transparent/semi-transparent containers to see through, so that the level of each buffer and wash solution can be seen during the run.
38	The product must have compatibility with the capillary collection kits for remote sample collection with sample stability at 2-8 C for 14 days. The company should provide such capillary collection kits.
39	The company must provide a support of factory trained engineers, application specialist and thalassemia expert for the technical and chromatogram interpretation related issues.
40	The HPLC system should have flexibility to use various samples tube sizes such as 13x75mm, 13x100 mm, different brands of micro capillary tubes such as Micro cuvette Sarstedt, and sample vials capacities (including 1.5ml).

B. Training and demonstration

- Complete installation of the system needs to be provided
- Training for users by the company personnel present 'on site' immediately after the installation.
- All pre-installation requirements to have the system installed in ideal room conditions should be included in the quote.

C. Others

- The system with similar specifications must submit references from previous installations.
- The names and contact addresses of the users/referees must be submitted with the proposal, so the purchase committee can contact them independently.
- The system should require minimal maintenance.
- Mention the recommended preventive maintenance schedule for the system. Any accessories needed for periodic preventive maintenance for 3 years, should be mentioned in separately the itemized quote.
- Can the preventive maintenance be done by a trained on-site engineer or requires a specialist from the OEM? If the latter, please provide cost of a 3 year AMC with required kit/consumables.
- **US FDA/ EU CE Certification must be provided for the proposed system. The certificates should be provided with the Unit.**
- Operation Manual to be given after installation and acceptance of equipment.
- The system should be supported by a trained local representative (contact details must be shared) and should have a minimum 72 hour window of response.

Section 5- Technical Bid

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

The Chairperson,
Attn: Prof. Sai Siva Gorthi
Instrumentation and Applied Physics,
Indian Institute of Science
Bangalore – 560012, India

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

Sl. No	Items	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License, (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name
Designation, Seal

Date:

Annexure-2:

Declaration regarding experience

To,
The Chairperson,
Instrumentation and Applied Physics,
Indian Institute of Science
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of Automated High Performance Liquid Chromatography

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing HPLC systems.

(Signature of the Bidder)

Printed Name

Designation, Seal Date:

Annexure-3:

Declaration regarding track record

To,
The Chairperson,
Instrumentation and Applied Physics,
Indian Institute of Science
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and installation of Automated High Performance Liquid Chromatography

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred /blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following.

Sl.No	Country in which the company is Debarred /blacklisted / case is Pending	Blacklisted / debarred by Government / Semi Government/Organizations /Institutions	Reason	Since when and for how long
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully
(Signature of the Bidder)

Name
Designation, Seal

Date:

Annexure – 4:

Declaration for acceptance of terms and conditions

To,
The Chairperson,
Instrumentation and Applied Physics,
Indian Institute of Science
Bangalore – 560012, India

Ref: Tender No: XXXXXX

Dated: XXXX

Supply and installation of Automated High Performance Liquid Chromatography

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name

Designation, Seal

Date:

Annexure – 5:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total
1.	Essential items noted in the technical specification				
1.a	... (details of essential items)				
1.b	...				
2.	Optional items noted in the technical specification				
2.a	... (details of optional items)				
2.b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (x years)				
6.	AMC 2 years beyond warranty				
7.	For IISc Bengaluru				

Any additional items

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total

Addressed to

The Chairperson,
 Attn: Prof. Sai Siva Gorthi
 Instrumentation and Applied Physics,
 Indian Institute of Science
 Bangalore – 560012, India

Section 7 – Checklist

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

1. Sealed Envelope “A”: Technical Bid

1. **Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:**
 - a. **Annexure 1: Bidders details**
 - b. **Annexure 2: Declaration regarding experience**
 - c. **Annexure 3: Declaration regarding clean track record**
 - d. **Annexure 4: Declaration for acceptance of terms and conditions**
 - e. **Annexure 5: Details of items quoted**
2. **Copy of this tender document duly signed by the authorized signatory on every page and sealed.**

2. Sealed Envelop “B”: Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.