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## Section 1: Bid Schedule

1	Tender no.	
2	Tender date	5 <sup>th</sup> March 2021
3	Item description	High Performance Liquid Chromatography (HPLC)
4	Tender type	(i) Technical bid (part A) (ii) Commercial bid (part B)
5	Place of tender submission	Office of the Chairman, Center for Sustainable Technologies, Bangalore – 560012, India
6	Last date and time for submission of tender	March 26 <sup>th</sup> 2021
7	For further clarification	Dr. Yagnaseni Roy Room 209, Center for Sustainable Technologies, Bangalore – 560012, India Email: <a href="mailto:yroy@iisc.ac.in">yroy@iisc.ac.in</a> Ph: +91 90028 22708

## Section 2: Eligibility criteria

Prequalification criteria:

1. 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.
2. **The supplier must provide a demonstration of HPLC analysis for a sample containing 10% by mass DMSO (dimethyl sulfoxide), 10% by mass DMF (dimethylformamide), 10% by mass NMP (N-Methyl-2-Pyrrolidone), and 70% by mass water. High peak resolution among the peaks is desired, and numerical values of the peak resolutions as well as individual peak efficiencies, and tailing factors should be provided.**
3. The manufacturer should have existence for a minimum of 20 years. (Enclose Company Registration Certificate)
4. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
5. If the Bidder is a local distributor/dealer/agent, it is mandatory to attach authorization certificate along with the technical bid from the original equipment manufacturer.
6. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per - Annexure 4.
7. 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.

## Section 3: Terms and conditions

### A) Submission of Tender:

1. All documentations in the tender should be in English.
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 proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ below. The compliance table should include all the items in the same order and format. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of deviation. The “third” column should state the reasons 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 requirements table below. (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
  - 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. 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 the office of the Chairman, Centre for Sustainable Technologies, 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. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders 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 21 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 construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.

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 3 years or more (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 2 years post warranty should be provided on completion of warranty period.

**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 and Installation:**

The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The system should be delivered, installed and made functional within 90 days 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.

**J) Payment Terms:** The payment will be through FOR-IISc Bangalore in INR only.

**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 on to 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. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. 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 details

### 1. Quaternary Gradient Solvent Delivery Unit with Degassing Unit:

Sr. no	Specification	Essential/optional
1.	Flow rate range up to 10.000 ml/min	Essential
2.	Online, automatic and continuous compressibility compensation without user intervention to help in greater flow accuracy and hence better reproducibility of retention time and results.	Essential
3.	System delay volume for pump plus autosampler should be less at 600-1500 ul	Essential
4.	Plunger seal wash integral, active and programmable	Essential
5.	The system must have an in-built degasser	Essential
6.	Gradient curve 8 or more for easy method development.	Optional
7.	Range of maximum operating pressure 5000-6000 psi	Essential
8.	Composition range: 0.0% to 100.0% in 0.1% increments	Essential
9.	Composition accuracy : +/- 1% independent of back pressure	Essential
10.	Composition precision : $\leq 0.15\%$	Essential
11.	Flow accuracy : +/- 1%	Essential

### 2. Photodiode Array Detector (PDA):

Sr. no	Specification	Essential/optional
1.	Wavelength Range : 190 – 800 nm	Essential
2.	Noise specification : $10 \times 10^{-6}$ AU, 10mm cell at 254nm	Essential
3.	Drift specification : $1 \times 10^{-3}$ AU/hour	Essential
4.	Detector linearity = 5% at 2 AU	Essential

5.	Flow cell temperature setting range should be from 4-40°C.	Essential
6.	512 element photodiode array device	Essential
7.	Analytical flow cell	Essential
8.	Data acquisition rate 80 Hz and higher	Essential
9.	Operation in 3D or 2D mode, Operation as multi-wavelength detector, in 2D data in 2D mode, up to maximum of 8 chromatograms in 2D mode. Full spectral analysis and collection of 3D data in 3D mode.	Essential
10.	Detection of wavelengths 190-800 nm using 2 lamps or less, using 512 diodes or more.	Essential
11.	Should have peak purity algorithm for automatic correction for noise.	Essential

### 3. Auto-Sample Injector:

Sr. no	Specification	Essential/optional
1.	A total of 70 vials or more.	Essential
2.	Temperature setting range should be from 4-40°C.	Essential
3.	Advanced function like priority samples, auto additions, auto standards.	Essential
4.	The auto sampler should have flow through needle design with separate outer side needle wash system which should be integral, active and programmable, the external needle wash system to wash the outer side of the needle with fresh solvent, which reduce the carry over effects.	Essential

### 4. Column Oven:

Sr. no	Specification	Essential/optional
1.	Temperature range from to 4-65°C or above	Essential
2.	Forced air circulation to maintain uniform temperature in the entire column oven.	Essential

**5. Columns:**

<b>Sr. no</b>	<b>Specification</b>	<b>Essential/optional</b>
1.	2nos C-18 column 250*4.6, 5um	Essential
2.	1nos C-8 column 250*4.6, 5um	Essential

**6. Accessories should be supplied with HPLC instrument:**

<b>Sr. no</b>	<b>Specification</b>	<b>Essential/optional</b>
1.	The system must be able to work with the voltage available in Indian conditions (220-240 V) (50/60 Hz) without any major power conversion. If such power conversion is required, such a convertor must be provided along with the.	Essential
2.	The system must have a tray for holding the solvent bottles safely and securely minimizing the risk of spillage. Solvent bottles and appropriate suction tubes with inline metal/ceramic or equivalent filters must be provided for use with HPLC grade solvents	Essential
3.	Clear and easy valves and methods for purging must be available. The tools required for the purging must be provided along with the system.	Essential
4.	1000L capacity 5nos solvent bottles	Essential
5.	100nos 1.5ml sample vials	Essential
6.	Stainless steel solvent inlet filters 5nos	Essential
7.	Some spare consumables (such as inline filters, PEEK tubing, ferrules) must be provided for first 3-5 years.	Essential
8.	Sample and solvent filtration kit	Essential
9.	3L sonicator	Optional
10.	2 spare guard columns and 2 spare guard column holders	Essential
11.	1 spare photodiode array detector lamp	Essential



12.	1 spare photodiode array detector flowcell	Essential
13.	Proprietary integrated computer imported from the origin of the HPLC system, that can interface with the HPLC system.	Essential

## 7. Software

Sr. no	Specification	Essential/optional
1.	Software should control the HPLC system	Essential
2.	Software must be original license version from principal manufacturer	Essential
4.	Appropriate tools for maintenance must be provided.	Essential
5.	Chromatography software with integrated database SQL or Oracle.	Essential
6.	Custom field, Custom calculations	Essential
7.	Report publisher facility for customized reports.	Optional
8.	Truly complies with all CGMP/GLP and 21 CFR Part 11 rule.	Essential
9.	Peak purity calculation to distinguish closely related compounds	Essential

## Service and Training

Sr. no	Specification	Essential/optional
1.	The system should be accompanied with Conformity Certificate.	Essential
2.	Vendor to provide both on-site and operator training for users on the system start-up, usage, maintenance, quality control, trouble shooting.	Essential
3.	A declaration of Conformity certificate& System Validation Certificate must be provided.	Essential
4.	Suppliers should have Application lab and local office in Karnataka.	Essential

5.	Suppliers should have supplied 20 or more HPLCs with quaternary pump and photo-diode array detector in government-accredited institutes in Bangalore, and should be able to provide End User Certificates from at least 5 users.	Essential
6.	Must have a local dedicated team which consists of application engineers for during equipment breakdown.	Essential

## Section 5: Technical bid

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

Office of the Chairman,  
Attn: Dr. Yagnaseni Roy  
Center for Sustainable Technologies,  
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:

<b>Sr. no</b>	<b>Items</b>	<b>Details</b>
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 Chairman,  
Centre for Sustainable Technologies,  
Indian Institute of Science,  
Bangalore – 560012,  
India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of High Performance Liquid Chromatography (HPLC)

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 High Performance Liquid Chromatography systems.

(Signature of the Bidder)

Printed Name Designation, Seal

Date:

## Annexure 3

Declaration regarding track record

To,  
The Chairman,  
Centre for Sustainable Technologies,  
Indian Institute of Science,  
Bangalore – 560012,  
India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of High Performance Liquid Chromatography (HPLC)

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:

Sr. 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 Chairman,  
Centre for Sustainable Technologies,  
Indian Institute of Science,  
Bangalore – 560012,  
India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of High Performance Liquid Chromatography (HPLC)

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

S no.	Description	Cat. number	Quantity	Unit price	Subtotal
1.	Essential items noted in the technical specification				
1a.	... (details of essential items)				
1b.	...				
2.	Optional items noted in the technical specification				
2a.	... (details of essential items)				
2b.	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (5 years)				
6.	AMC 2 years beyond warranty				
7.	Cost of Insurance and Airfreight				

Any additional items

S No.	Description	Cat. number	Quantity	Unit price	Subtotal

Addressed to:

Office of the Chairman,  
 Attn: Dr. Yagnaseni Roy  
 Center for Sustainable Technologies,  
 Bangalore – 560012  
 India



## Section 7

(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 Envelope "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.