



No. CUK/TENDER/2016-17/RP-HPLC/28

Date: 14-12-2016

**NOTICE INVITING TENDER (RETENDER - 2) FOR SUPPLY AND  
INSTALLATION OF REVERSED PHASE- HIGH PERFORMANCE LIQUID  
CHROMATOGRAPHY (RP- HPLC) AND MODULAR-DETACHABLE-  
AUTOSAMPLER (THROUGH E-PROCUREMENT MODE)**

Online electronic bids are hereby invited for and on behalf of Central University of Karnataka, for supply, delivery, installation, and testing of **RP-HPLC and Modular-Detachable-Autosampler** for Central University of Karnataka (as per Annexure-1) as briefly described hereunder:

1.	Name of the Equipment	Supply and installation of RP-HPLC AND MODULAR-DETACHABLE-AUTOSAMPLER (as per Annexure-1).
2.	Quantity	01 (one)
3.	Bid submission mode	Through e-Procurement mode on Central Public Procurement Portal ( <a href="http://www.eprocure.gov.in/eprocure/app">www.eprocure.gov.in/eprocure/app</a> ) Two packet system: Packet 1 -Techno-Commercial Bid; and Packet 2 -Price Bid.
4.	i) Tender processing Fees Rs. 500/- ii) Earnest Money Deposit Rs. 50,000/-	Payable through Demand Draft drawn on any nationalized bank in favour of "Central University of Karnataka" payable at Kalaburagi. The DDs should be sent to "The Registrar, Central University of Karnataka, Kadaganchi -585367, Kalaburagi District, Karnataka" in sealed envelope by super scribing as "DDs for RP-HPLC and modular detachable autosampler tender". The DDs shall reach on or before the date and time of bid opening.
5.	Date and time of availability of bid document in the portal.	From 13.30 Hrs. of 15.12.2016 to 15.00 Hrs. of 05.01.2017
6.	Last date and time for submission of bids through portal.	15.00 Hrs. of 05.01.2017
7.	Date and time of opening technical bids.	16.00 Hrs. of 06.01.2017

### **A. Instructions to Bidders**

1. Bids are to be submitted online through e-Procurement portal of the Central Public Procurement Portal (CPP portal; <https://eprocure.gov.in/eprocure/app>).
2. Bids submitted offline will not be considered.
3. Bidders are instructed to read and understand the eligibility criteria and terms and conditions.
4. Tender processing fee and EMD is Payable through Demand Draft drawn on any nationalized bank in favour of “Central University of Karnataka” payable at Kalaburagi. The DDs should be sent to “The Registrar, Central University of Karnataka, Kadaganchi-585367, Kalaburagi District” in sealed envelope by super scribing as “DDs for RP- HPLC (REVERSED PHASE- HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) AND MODULAR-DETACHABLE-AUTOSAMPLER TENDER”. The DDs shall reach on or before the date and time of bid opening.
5. EMD of the unsuccessful bidders will be refunded / returned after opening the price bids and EMD of the successful bidder will be refunded after successful installation and testing.
6. To avail the concessions available to MSEs, such bidders are required to upload, the registration certificate issued by NSIC.
7. Bidders are advised to submit the tender strictly based on the terms and conditions and specification contained in the Tender Document. Conditional bids will be summarily rejected.
8. Price bids of the only responsive bidders will be opened.

### **B. Eligibility of the bidders**

1. The bidder shall be registered firm / company.
2. Bids can be submitted by the Original Equipment Manufacturers (OEM) or Authorized Dealers of RP-HPLC and Modular-Detachable-Autosampler.
3. The bidders shall not be black listed by any Govt./Semi Govt./Private Institution.
4. The bidder shall be free from the encumbrance and there shall not be any vigilance case/ CBI case/ Court Case pending against the bidder.
5. The firm should be registered with the Income Tax, Sales Tax and other required statutory registrations.
6. The firm should have an experience of at least 3 years in supplying equipment put for tender or any similar equipment.
7. Annual turnover during the past three financial years (2013-14 to 2015-16) should be at least Rs.70,00,000/.

8. The bidder should enclose audited financial statements for the three financial years from 2013-14 to 2015-16 and ITR acknowledgement for the assessment years 2014-15 to 2016-2017.
9. List of clients served highlighting Government organizations along with contact numbers and work order copies to be furnished.
10. The bidder should produce the evidence of supplying at least one RP-HPLC and Modular-Detachable-Autosampler to any of the Government organization during the last two years (2014-15 and 2015-16).

**C. Each Bidder shall upload the following self-attested documents**

**Packet I**

1. Scanned copy of duly filled Annexure I and II.
2. Firm registration certificate, Authorized Dealership/OEM Certificate from principal, VAT, Registration Certificate, PAN Card NSIC certificate if necessary.
3. Audited Profit and Loss Account and Balance Sheet for last 3 financial years from 2013-14 to 2015-16.
4. Auditors certificate indicating the turnover for last 3 financial years from 2013-14 to 2015-16.
5. Acknowledgement of ITRs for the last three years from the Assessment Years for 2014-15 to 2016-17.
6. Work orders/purchase orders to meet the eligibility requirements.
7. Brochure/leaflet of the RP-HPLC and Modular-Detachable-Autosampler (optional)

**Packet II**

1. Scanned copy of duly filled Annexure III – Price Bid

#### **D. Terms and conditions**

1. Bids can be submitted by the original equipment manufacturers (OEM) /authorized dealers of the items given in Annexure-I.
2. Bidders shall furnish valid registration certificates pertaining to income tax, sales tax etc.
3. Incomplete bids will be summarily rejected.
4. Technical literature/brochures of the quoted model explaining all specifications including pump system, mixer, injector should be enclosed with the quotation should be uploaded. Detailed operational manual (both electronic and printed versions) should be provided with the equipment. All the documents should be in English.
5. The supplier must provide guarantee that all the specifications being offered shall be demonstrated to conformity with the values in quotation while installation. **The supplier must submit a table indicating the compliance of the features of the quoted model with against the specification given in Annexure-I.** If any feature not matching, should be mentioned and explained.
6. Minimum **two years warranty** is required on the main equipment and accessories from the date of installation.
7. Spare parts should be supplied with the instrument.
8. Details of installation, commissioning and training of the equipment must be specified. (Attach separate sheet for these details with signature and seal)
9. Installation and commissioning should be made by the manufacturer or its Indian representative. The Indian representative should have well proven service capability on similar systems and should have service engineers trained by manufacturer for after sale support. Details of the service support in terms of service centres with address and telephone number, service engineers with names and experiences, response time during warranty and afterwards should be provided with the offer.
10. Proper user training for operation and maintenance of the equipment should be imparted at the time of installation.
11. Utility and installation requirements (Electrical power, cooling water, compressed air, etc.) should be clearly mentioned in quotation.
12. Price quoted should inclusive of all taxes, transportation, installation and on-site

training charges.

13. Documentary evidences of system performance should be provided along with the submitted technical bid.
14. The supplier should provide the list of users from Government institutions in India as well as from abroad. Confirmation of the claim should be supported by at least three users of specified model.
15. Validity of quotation should be at least for 90 days.
16. Time required for delivery should be within 3 months from the date of issue of purchase order.
17. EMD of the unsuccessful bidders will be refunded after opening the price bids.
18. The supplier shall provide security deposit of 10 percent of the total value of the either in cash or bank guaranty for the warranty period.
19. The University reserves the right to postpone and/or extend the date of receipt or to withdraw the tender notice or not to place the order or to place order for part or full quantities without assigning any reason thereof at any stage of the tender. In such an event, bidders shall not be entitled to any compensation, in any form whatsoever.
20. Canvassing in connection with the tender is strictly prohibited and the bids submitted by such bidders indulging in such practices are liable to be rejected. Also CUK reserves the right to debar the firm for minimum one year as per the Company policy.
21. Any legal action taken or proceeding initiated on any of the terms of the agreement shall be only in Kalaburagi jurisdiction.
22. If tender opening day happens to be holiday, the next working day will be treated as tender opening.
23. Payment will be released within one month after delivery and installation of equipment.

**Registrar**

**Central University of Karnataka**

## **Annexure I –Technical Specifications for Reversed Phase- High Performance Liquid**

### **Chromatography (RP-HPLC) and Modular-Detachable Autosampler**

Technical specifications for supply, delivery, installation, testing and commissioning of RP-HPLC and Modular-Detachable Autosampler (as per specifications below) with a list of other accessories required for complete and smooth operation of the equipment. The technical offer should clearly include make and model number of the offered equipment.

#### **Specifications for RP HPLC**

**Basic System:** Binary solvent delivery system with manual sample injection unit. The system should also be compatible with coupling to autosampler. System running software should be functional in both manual mode as well as autosample mode.

Sl.no	Items	Descriptions	Bidder's specification for the quoted equipment
<b>Mandatory specifications</b>			
1	<b><u>Solvent Delivery System for binary gradient:</u></b>	<ul style="list-style-type: none"> <li>• Gradient formation: High pressure binary mixing</li> <li>• Solvent delivery unit with two individual pumps is preferred</li> <li>• Should have high precision dual plunger design</li> <li>• Pump flow rate range: 0.001mL to 10.0 mL or better</li> <li>• Maximum operating pressure up to 40 MPa, 5000 psi or higher</li> <li>• Flow rate accuracy: ±1% or better</li> <li>• Pulsation: 0.5 MPa or better</li> <li>• Flow rate precision: 0.06% RSD or better</li> </ul>	
2	<b><u>Degassing unit and Mixer</u></b>	<ul style="list-style-type: none"> <li>• Should have self diagnostic and auto purge feature</li> <li>• Should have automatic plunger rinsing kit</li> <li>• Must have leak sensor as safety feature</li> <li>• Should have gradient mixing for analytical, semi-micro &amp; semi-prep modes</li> </ul>	
3	<b><u>Dual Wavelength UV-VIS Detector</u></b>	<ul style="list-style-type: none"> <li>• Standard degasser</li> <li>• Mixing volume should be adjustable <ul style="list-style-type: none"> <li>• Degasser should have two or more channel membrane degassing and Ghost peak reduction capability.</li> </ul> </li> <li>• Any Error status should be transferrable to</li> </ul>	

4	<b><u>System Controller</u></b>	<ul style="list-style-type: none"> <li>• Both sensitivity and resolution must be optimized with a fixed slit width design and available simultaneously without sacrificing one for the other</li> <li>• Wavelength range 190 nm - 600 nm</li> <li>• Wavelength accuracy <math>\pm 1</math> nm</li> <li>• Wavelength precision <math>\pm 0.1</math> nm</li> <li>• Drift Less than <math>1 \times 10^{-4}</math> AU/Hour</li> <li>• Noise Level <math>\pm 0.25 \times 10^{-5}</math> AU</li> <li>• A standard cell : should be available as standard.</li> <li>• It should have automatic wavelength accuracy check at 4 wavelengths (UV &amp; VIS) &amp; wavelength correction</li> </ul>	
5	<b><u>Data management System (Software)</u></b>	<ul style="list-style-type: none"> <li>• Number of different wavelengths to be monitored &amp; quantitated simultaneously: 2</li> <li>• It should have a self-aligning mechanism for the light sources and cell to allow alignment-free installation from the front</li> <li>• A leak sensor and lamp replacement protection system</li> <li>• Analytical cell to be supplied.</li> <li>• It should store more than 10 analysis files with a total up to 400 steps of time programs.</li> <li>• The controller must be equipped with a big, clear LCD display for control parameters and time programs as well as spectrum display of scanned data and chromatogram display.</li> <li>• It must have the capability of data buffering to protect collected chromatography data from PC failure</li> </ul> <p>Software should be compatible with WINDOWS platform on 32 bit technology and to be offered directly from the manufacturer of the</p>	



		<ul style="list-style-type: none"><li>• The digital acquisition &amp; processing system should ensure speed &amp; stability of data.</li><li>• Should have single access point for system administration, data acquisition, post run analysis and long-term data management.</li><li>• Monitoring of all the two HPLC systems simultaneously should be possible</li><li>• Method file capability should include LC analysis parameters, data processing parameters, report format, etc.</li><li>• Quantitation software should include, internal standard, external standard, normalization and corrected normalization for accurate and reproducible quantitation</li><li>• Calibration curves obtained with weighted regression should be possible</li><li>• The reporting format should be flexible and easy to use in any desired format</li><li>• The data should be convertible to other formats. Spread Sheet software and word-processing software should be available to provide data in tables or graphs through industry standard protocols</li></ul>	
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<b>Optional</b>		
6	<b><u>Column Oven</u></b>	<ul style="list-style-type: none"> <li>• Should have forced air circulation for uniform temperature distribution.</li> </ul>
		<ul style="list-style-type: none"> <li>• It should accommodate upto 2 columns of 30 cm length and post column reaction coils.</li> <li>• The temperature regulation from ambient plus 10 o C to 80 o C or better.</li> <li>• Temperature control precision should be <math>\pm 0.1^{\circ}\text{C}</math></li> <li>• The oven should have temperature limit device and temperature fuse and a solvent leak sensor</li> <li>• Column management device should be available as an option.</li> </ul>
7	<b><u>Warranty</u></b>	<ul style="list-style-type: none"> <li>• Minimum two years</li> </ul>
8	Make and model number of the offered equipment.	

### **Specifications for Modular-Detachable-Autosampler**

The system should also be compatible with coupling to binary solvent delivery system that have manual sample injection unit. Autosampler should be compatible with available software.

- Auto sampler should be able to do Full volume injection and variable injection without any sample loss
- Sample injection volume should be variable between 0.1  $\mu\text{l}$  to 100  $\mu\text{l}$  [0.1  $\mu\text{l}$  step] or better
- Injection volume of 1-2000  $\mu\text{l}$  [1  $\mu\text{l}$  step] should be available as an option
- Number of samples to be processed automatically, random access up to 350
- It must perform customized, continuous analyses according to the conditions specified for each sample, including pre-treatment, injection and analysis conditions. Priority samples may be inserted in the queue during automated run.
- Flow line rinse capability both before and after sampling should be possible
- Needle wash must be standard
- Needle aspiration speed should be variable
- Carry over must be within 0.01 % or better
- The injection reproducibility should be less than 0.3% RSD
- Injection volume accuracy  $\pm 1\%$
- Reaction time setting before injection should be 0.1-120 min.
- Should be capable of accommodating microtiter plates of 96 or 384 wells as well
- A direct cooling mechanism with Peltier elements for temperature setting from 4 - 40°C or better
- It must have a leak sensor, automatic rack and vial recognition as safety feature.
- Preferred operating pH range is 1-10 or better.

## **General features for RP-HPLC and Modular-Detachable- Autosampler**

1. Modular independent unit is preferred over integrated unit.
2. Columns: C18 column 250 x 4.6 mm x 5 micron-1no.with Guard column.
3. HPLC Start-up kit with 4 no's of solvent bottles should be supplied.
4. Reservoir tray should be provided.
5. 1000 Pieces of 1/1.5 mL sample vials with cap and septum should be provided.
6. PC with LCD monitor, PRINTER & UPS 2KVA with 45 mins backup should be supplied.
7. Installation, demo of Instrument and all related expenses to supply instrument up to the Lab has to be borne by the supplier.
8. Quote should be given to C.I.F Gulbarga.
9. Warranty of minimum two year or more is better
10. The equipment should be provided with all necessary accessories and spare parts for a fully functional unit.
11. Installation should be free of cost.
12. Availability of services and spare parts will be considered while finalizing the tender.
13. **Power and cable requirements:** All power and cable requirements and accessories must be suitable for use in India.
14. **Installation and training :**The equipment must be installed at Central University of Karnataka, Kadagasnchi-585367, Kalaburagi Dist., Karnataka and on sight training to use it must be provided.

**Annexure II**  
**Tender Application and Declaration**

1. Name of the Firm: .....
2. Full Postal Address:.....  
.....
3. Contact No. ....
4. Fax No.....
5. Email Id:.....
6. Date of Establishment of firm.....
7. Tender processing fee and EMD

	Processing fee	EMD
Amount	Rs. 500	Rs. 50,000
DD No.		
Date		
Bank and Branch		

8. Are you claiming Exemption for processing fee and EMD through NSIC certificate ?  
**Yes/No**
9. Is your firm participating as Original Equipment Manufacturer (OEM) / Authorized dealer? (strike out which is irrelevant)
10. Give details of any Government contracts executed during the last twelve months (attach separate sheet, if necessary):.....

**Declaration**

**I the undersigned hereby declare on behalf of my/our firm that:**

- a) I have gone through the terms and conditions mentioned in the tender document and undertake to comply with all the terms and conditions mentioned in the tender document.
- b) the price quoted will be valid and binding for the entire period of contract.
- c) supply the items as per specifications given in the tender document/supply order within stipulated period, if contract is awarded.
- d) I/we give the rights to the Central University of Karnataka to forfeit the EMD paid by me if any delay occurs on my part or if I fail to comply with the terms and conditions mentioned in the tender document.
- e) there is no vigilance/CBI case or court case pending against my firm **nor** is my firm blacklisted by any agency/department.

Date: \_\_\_\_\_

Signature : \_\_\_\_\_

Place: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Seal of the firm

**Note:** To be submitted by the bidder in the letter head and to be signed by the authorized signatory with name and designation. Affix the seal of the firm.

### Annexure III – Price Bid

Sl.no	Description	Amount in INR/ FC
1	Price exclusive of taxes and duties for Supply of the RP-HPLC and Modular-Detachable-Autosampler as specified in Annexure I	
2	Excise duty	
3	Customs duty	
4	CST/VAT	
5	Transportation	
6	Installation, demonstration and training	
7	Total Price	
Total price in words		

Date: \_\_\_\_\_

Signature : \_\_\_\_\_

Place: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Seal of the firm

**\* If the price is quoted in foreign currency, the exchange rate prevailing on bid opening day will be considered to compare the price.**

**Note:** To be submitted by the bidder in the letter head and to be signed by the authorized signatory with name and designation. Affix the seal of the firm.

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