



# गुरु घासीदासविश्वविद्यालय, बिलासपुर (छ0ग0)

A Central University established by the Central Universities Act, 2009 No. 25 of 2009  
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Ref: Pharm./LTI/2706/2014

Date: 11/09/2014

To,

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## Subject: Limited Tender Enquiry

Sir,

Please submit your competitive rates for supply & installation of the following article as mentioned below in the prescribed proforma Annexure-I to the office of Head, Attention Dr. K. P. Namdeo, Associate Prof., Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur – 495009 (C.G.) **on or before 01.10.2014 (3:00 p.m.)** through Speed post/Registered post only. Received tenders will be opened on **01.10.2014, 04:00 p.m.** at the above address. Tenders received after due date & time will not be considered. Any non compliance from prescribed specifications shall lead to cancellation of tenders. The basic model should be such that at any stage it can be upgraded to higher version in terms of use of detectors.

Item No.	Specification/ description of the instrument	Qty.
1.	<p>HPLC system (minimum mandatory specifications mentioned below) The HPLC system must be controllable, monitored, capable of performing system maintenance using Microsoft Internet Explorer web browser.</p> <p>1. Solvent Delivery System for Micro, Semi-Micro, Analytical, Semi-Prep flow rates QTY 2 No</p> <ul style="list-style-type: none"><li>• It must be a high speed double micro-plunger in-parallel pump with automatic pulsation correction mechanism achieving pulse-free solvent delivery.</li><li>• It should have a flow rate resolution of 3 nl/min</li><li>• The flow rate should be settable between 0.0001 to 10 ml/min from micro to semi-preparative flow rates without any hardware changes</li><li>• Flow rate accuracy should be <math>\pm 1\%</math> or <math>\pm 0.5 \mu\text{l}/\text{min}</math> of set value whichever is larger</li><li>• Flow rate precision must be less than <math>\pm 0.06\%</math> RSD</li><li>• Pressure setting range should be 1-40 MPa</li><li>• Pressure pulsation must not exceed 0.3 bar (0.03MPa)</li><li>• The gradient formation should be produced through quaternary low pressure gradient mixing.</li><li>• The precision of composition must be less than 0.1% RSD.</li><li>• It should employ active check valves that allow stable delivery of even non-polar organic solvents such as hexane</li><li>• Automatic rinsing of plunger must be available.</li><li>• Maintenance kit should be quoted.</li><li>• It should be capable of standalone operation</li><li>• It should have up to 20 storage files</li><li>• Maintenance kit, reservoir tray with 4 solvent bottles complete with fittings.</li><li>• It must have a leak sensor as safety feature.</li><li>• It should have functions for maintenance and validation which are accessible by a dedicated operation button</li></ul> <p>2. Mixture Dual Wavelength UV-Vis Detector: QTY 1 No</p> <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>• The Bandwidth should be 8nm</li><li>• Wavelength range must be from 190nm to 700nm</li><li>• The flow cell must be temperature controlled from ambient <math>\pm 5^\circ\text{C}</math> to <math>50^\circ\text{C}</math></li></ul>	01

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- Wavelength accuracy must be  $\pm 1$  nm maximum
  - Wavelength reproducibility must be  $\pm 0.1$  nm
  - Drift should be less than  $1 \times 10^{-4}$  AU/Hour
  - Noise level should be  $\pm 0.5 \times 10^{-5}$  AU
  - It should have 9 selectable response times from 0.05 to 10.0 seconds with a detection range of 0.0001 – 2.56 AUFS in 0.0001 AUFS steps
  - Must have time program capability in standalone (32 steps) mode
  - Ratio chromatogram display at 2 wavelengths must be possible
  - Wavelength scan should be possible in 1-5nm wavelength steps
  - It should be able to monitor and quantitate 2 wavelengths simultaneously
  - A Semi micro flow cell [2.5  $\mu$ L volume, 5 mm cell path length, 12 MPa pressure max.] with temperature control with should be available as standard
  - A Conventional flow cell [12  $\mu$ L volume, 10 mm cell path length, 12 MPa pressure max.] with temperature control should be available as an option
  - Linearity should be equal or more than 2.5AU (ASTM method)
  - It should have a self-aligning mechanism for the light sources and cell to allow alignment-free installation from the front
  - It should display sample and reference light intensity levels and accumulated lamp illuminated time
  - It should have self-diagnostics in standalone mode
  - A leak sensor and lamp replacement protection system (lamp automatically turned OFF) should be available.
3. System Controller
- It should function as a communication bus module with data buffering capability
  - It should acquire up to 24 hours for one analysis, at 500ms sampling rate
  - It must be controllable from a web-based interface via a network. It allows the system to be controlled, monitored and maintained via Internet Explorer Web browser
  - It must be compatible with wireless networking
  - It must come with Expert function in that if pressure falls below specified value, the expert function will automatically purge the mobile phase
  - It should store up to 20 analysis files with a total up to 400 steps of time programs
- Computer / Laptop and Printer
- Intel processor (i3 processor)
  - 2.0GB RAM or better
  - 500GB Hard Disk
  - HP Laserjet Printer
4. Chromatographic Software
- Operation of the system should be very easy and intuitive via a state-of-the-art 32 bit Windows 7 based software
  - It should cover full one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis
  - Sample schedule wizard function should be standard
  - There should be an on-line help function context sensitive
  - The reporting format should be flexible and easy to use in any desired format
  - The data can be converted to other formats. Spread Sheet software and word-processing software can be readily employed to provide data in tables or graphs through industry standard protocols
  - The software should allow automatic execution of system checks, auto-purge and baseline checks
  - Software must have its own log files for complete audit trails
  - An audio-visual multi-media CD-ROM for Maintenance and Troubleshooting must be provided
  - System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity.
  - Extra accessories: Sonicator (Bath type), Sample filtration kit(0.45  $\mu$ m membrane filter), One extra  $C_{18}$  HPLC column. Free one year service warranty and training should be provided.

*K. Reddy*

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## General terms & conditions of the supply

1. The tenders have been invited under two bid system i.e. Technical Bid and Financial Bid. The interested agencies/firms are advised to submit two separate sealed envelopes superscribing "Technical Bid" and "Financial Bid". Both sealed envelopes should be kept in a third big sealed envelope superscribing "Tender **FOR SUPPLY / INSTALLATION** ..... "Ref: ...../...../...../2014 Dated ....."
2. **Envelope I (Technical Bid):** The vendor must submit the following documents in Envelope-I (Technical Bid):
  - a. Detailed technical specifications and literature/ manuals of the goods /services to be supplied.
  - b. Technical compliance statement with deviation, if any
  - c. Authorized partner/dealer/distributor certificate from the original manufacturer.
  - d. Documentary proof in support of PAN , VAT/TIN No. and Service Tax No.

### **Envelope II (Price Bid):**

The vendor must submit the Price Bid information mentioning all taxes/duties FOR University campus, Bilaspur in the prescribed proforma **Annexure-I**. The price should be quoted in words and in figures, without any errors, erasures or alterations. Unit price of each product and accessories should be quoted separately. Maximum educational discount for University as could be offered should also be mentioned.

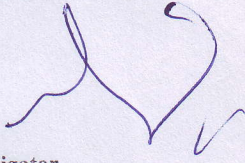
3. **Make/Brand:** The bidder should mention the make/brand of the quoted article for which he is OEM/authorized distributor/stockist/dealer. The authorization certificate, technical brochure/leaflet etc. should be submitted along with the quotation.
4. The Cost of the equipment/instrument/article should be inclusive of all taxes and statutory levies. Labour / installation charges, packing, insurance, freight etc. should be mentioned separately (inclusive of all taxes liveable on them). For imported goods price to be quoted CIP Kolkata and in case of local firms they should quote FOR Guru Ghasidas University Campus, Bilaspur. Unit price of each product and accessories should be quoted separately. Maximum educational discount for University as could be offered should also be mentioned. The University is **exempted from payment of custom and excise duty** on Scientific and technical equipment/instruments by DSIR, Govt. of India. Necessary certificate will be issued on demand.
5. **Custom Clearing:** Custom Clearing at Kolkata/New Delhi Airport will be carried out by the University authorized clearing agent.
6. If the items are under DGS&D rate contract, the quoted price should not be more than the DGS &D rate.
7. **Discount, if any:** Special concession/discount applicable for Educational Institutions, if any, must be clearly mentioned at the time of submission of quotation.
8. No packing/forwarding charges will be paid extra.
9. University will not be responsible for any postal delay or non-receipt of the tender.
10. The article must be delivered without any extra cost at the University Institute and will also have to be installed free of cost.
11. The University is **exempted from payment of custom and excise duty** on Scientific and technical equipment/instruments by DSIR, Govt. of India. Necessary certificate will be issued on demand.
12. **Validity of rate:** The quoted rate should be valid for a minimum period of 90 days.
13. **Delivery period:** The article to be delivered& installed within 30 days from the issue of P.O.
14. **Liquidated Damages:** Any delay in supplying the article from the stipulated date of delivery, will attract LD. Liquidated Damage will be applicable at the rate of 0.5% per week and limited to 10% maximum. The authority reserves the right to cancel the purchase order when LD accumulates to 10%.
15. **Warranty:** One year comprehensive on-site warranty shall be applicable to the supplied goods for all manufacturing defects from the date of satisfactory installation, commissioning, demonstration and acceptance.
16. **Performance Security:** The successful bidder must submit Performance Security of 5% of the ordered value, on the goods/services supplied irrespective of the origin, before the release of payment by Demand Draft or Bankers Cheque or Bank Guarantee from any Nationalized Bank. Otherwise, the **same amount will be deducted** from the billed amount. On satisfactory completion of the warranty period of 1 year (12 months), **Performance Security**

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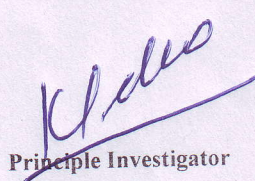
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- will be released free of any interest on demand.
17. **Payment:** 100% payment will be made after supply and installation of ordered quantity of article at our end in good condition. No advance payment request will be entertained.
  18. **CST/VAT** will be paid extra, if applicable provided it is made clear in the quotation.
  19. Unsealed quotations will be rejected and quotations must reach on or before the due date through Speed post/Registered post / courier only.
  20. University reserves the right to accept or reject any quotation without assigning any reason thereof.
  21. All disputes will be subject to Bilaspur jurisdiction only.

HOD



Co-Investigator



Principle Investigator

Ref No.

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Name of Firm- .....

Address. ....  
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Rate of Equipment

Item Number	Description of article	Quantity	Unit Prize	Tax, if any	Total prize

I ..... declare that the rates will be valid for 90 days from the closing date of the tender. We hereby agree to the terms and conditions of the tender and will abide by the same.

Seal and Signature of Tenderer