



**GURU GHASIDAS VISHWAVIDYALAYA**  
**KONI, BILASPUR-495 009 (C.G.) INDIA**

A Central University established by the Central Universities Act, 2009, No.25 of 2009)  
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Ref. No 06/FIST-Chem./2017

Bilaspur, Date-22-02-2017

**EOI cum Tender bid**

Guru Ghasidas Vishwavidyalaya invites EOI cum tender bid (under two bid system) from the reputed Original Equipment Manufacturing Companies their authorized partners/agents/distributors to supply following four laboratory equipments, a)Spectrofluorometer, b)FT-IR Spectrometer, c) Cyclic Voltammeter and d) Microwave synthesizer under the FIST programme approved by DST, GOI, for supply, installation & commissioning. EOI cum tender bid fee of Rs.2,000/- (Non-refundable) and EMD of Rs. 1.35 Lakh, is to be submitted along with EOI cum tender bid. Sealed Envelope should be addressed to the Head, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur (C.G.) - 495009, India, should reach on or before **3.00 PM**, on **20/03/2017**, through speed/Registered post only. For Tender details, documents and any other information/updates please visit our website [www.ggu.ac.in](http://www.ggu.ac.in).

**Registrar**

## **Guru Ghasidas Vishwavidyalaya,**

**(A central University)**

**Koni, Bilaspur, 495009 (C.G.) India**

Website: [www.ggu.ac.in](http://www.ggu.ac.in) Phone: 07752-, 260381, 9433378801 FAX: 07752-260154, 260148

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Ref. No. 06 /FIST-Chem./GGV/2017

Bilaspur, Date: 22-02-2017

### **EOI cum Tender bid** **(Under two bid system)**

**For equipments approved under Fund for improvement of S&T infrastructure (FIST) by the Department of Science & Technology, Govt. of India, New Delhi for Dept. of Chemistry, GGV, Bilaspur.**

Guru Ghasidas Vishwavidyalaya, Bilaspur (A Central University) invites Expression of Interest cum tender bid from reputed Original Equipment Manufacturing Companies or their authorized partners/agents/distributors to supply following four laboratory equipments, a) Spectrofluorometer, b) FT-IR Spectrometer, c) Cyclic Voltammeter and d) Microwave synthesizer under the FIST programme approved by DST, GOI, for supply, installation & commissioning. The interested bidder should submit bids in two parts (Part A – Technical and Part B – Financial) for supply, installation & commissioning of the items listed in Schedule-I in EOI cum TENDER bid document. EOI cum tender bid fee of Rs.2,000/- ( non-refundable) and Earnest Money Deposit (EMD) Rs 1.35 Lakh, by Demand Draft/ FDR drawn in favour of “Registrar, Guru Ghasidas Vishwavidyalaya” payable at Bilaspur (C.G.) to be submitted along with EOI cum tender bid.

1. Bids in two parts (Part A – Technical and Part B – Financial) for supply, installation & commissioning of the items listed in **Schedule-I** in EOI cum tender bid notice can be submitted by Speed post/Registered post only by super scribed the envelope “BID FOR SUPPLY OF INSTRUMENTS UNDER FIST vide Ref. No. 06 /FIST-Chem./GGV/2017, Bilaspur, Dtd: 22-02-2017” to the Head, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur-495 009 (C.G.) India and should reach on or before **3.00 PM on 20/03/2017.**

2. Technical Bids will be opened on the same day i.e 20.03.2017 at 4.00 PM in the office of Head, Department of Chemistry, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
3. Date of opening of financial bids will be intimated later on through the university website [www.ggu.ac.in](http://www.ggu.ac.in)
4. **Two Bid System** (GFR 152):

Vendors are required to submit the “Technical Bid” and “Financial Bid” in two separate sealed **envelopes**. Thereafter, both the envelopes should be placed in a big outer envelope duly sealed and super scribed as “BID FOR SUPPLY OF INSTRUMENTS UNDER FIST vide Ref. No. 06 /FIST-Chem./GGV/2017, Bilaspur, Dtd: 22-02-2017”

**Envelope I (Technical Bid):** The vendor must submit the following documents in

Envelope-I (Technical Bid):

- a) Bidder Profile
- b) Detailed technical specifications and literature/manuals of the goods/services to be supplied.
- c) Technical compliance statement with deviation, if any
- d) Authorized partner/dealer/distributor certificate from the original manufacturer.
- e) EOI cum tender bid fee of Rs.2,000/- by Demand Draft drawn in favour of “Registrar, Guru Ghasidas Vishwavidyalaya” payable at Bilaspur (C.G.)

**Envelope II (Financial Bid):**

The vendor must submit the financial Bid information in the prescribed format mentioning all taxes/duties for University campus, Bilaspur. 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. However Taxes /duties included in the quoted rate must be mentioned separately. In case of any change in tax/duty by GOI, the same shall be considered by the university.

5. The University is not responsible for non receipt of tenders within the specified date and time due to any reason including postal holidays or delays.

6. **Offer validity period:** The offer should hold good for a period of 120 days from the closing date of the tender. Any offer falling short of the validity period is liable for rejection.
7. **Performance Guarantee:** Performance Security for an amount of 5% of the order value may be furnished in the form of an Account payee Demand Draft, Fixed Deposit Receipt from a Commercial bank or Bank Guarantee from a Commercial bank in an acceptable form by the successful bidder. Performance Guarantee is to be furnished within 21 days after notification of the award and it should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the vendor, including warranty obligations.
8. The Cost of the equipment 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 CIF Kolkata/Delhi/Mumbai 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.
8. University reserves the right to carry out a technical inspection and performance evaluation (benchmarking) of the offers made by shortlisted vendors. The shortlisted vendors may be asked to come and give out presentation / demonstration.
9. **No commitment to accept lowest or any bid:** University shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers including those received late or incomplete offers without assigning any reason what so ever. University reserves the right to make any changes in the terms and conditions of the bid. University will not be obliged to meet and have discussion with any vendor, and or to listen to any representations.
10. **Shortlisting of Vendors:** University will create a shortlist of technically qualifying vendors and the financial bid of only these vendors will be opened. University reserves

the right to decide whether the items being quoted are as per the requirement of the University and are of standard/leading brands in the market. University reserves the right to decide which offer best suits the requirement of the university. Further, after opening financial bids of the short listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.

11. **Warranty:** The vendor shall provide comprehensive on-site Warranty for the system/equipment supplied against the work order for a min. period of 1 year from the date of installation and commissioning of the system/equipment. This would cover the hardware, hardware components, system software, equipment and accessories supplied by the vendor at the place of installation.
12. **Delivery period:** For imported goods the complete delivery, installation & commissioning of both the equipments/instruments should be made within 12 weeks from the date of issue of order. For indigenous goods it is 8 weeks.
13. **Resolution of disputes:** University and the vendor shall make every effort to resolve amicably, by direct informal negotiations, any disagreement or dispute arising between them under or in connection with the contract. If after thirty days from the commencement of such informal negotiations, University and the vendor have been unable to resolve amicably a resolution by formal arbitration the Vice-Chancellor of University shall appoint a sole Arbitrator of the dispute who will not be related to the vendor and whose decision shall be final and binding.
14. **Custom Clearing:** After arrival of the goods at Airport/Seaport, Indian agent or Indian subsidiary of the principal firm is solely responsible for getting the material clearance from customs. University will provide all custom documents for custom clearance on the demand of agent. Transportation from airport to Guru Ghasidas University, Bilaspur campus is also the responsibility of authorized agent. All charges/ expenses incurred in this process will be reimbursed to firm after submitting the bill along with documentary proof in original. Please note that the freight forwarder or clearing agent should be approved from IATA. **NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE UNIVERSITY UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLERANCE/ FREIGHT / INSURANCE ETC.** However the University can also appoint Custom

Clearing Agent if required.

15. The vendor should adhere with all seriousness to the time schedule provided by the University. The **Liquidated Damage** will be applicable at the rate of **0.5%** per week. The purchaser has the right to cancel the purchase order when LD accumulates to 10 %.
16. The specification & quantity indicated in the **Schedule-I**. University reserves the right to increase or decrease the quantity or delete some or all of items depending on the needs of the University without assigning any reasons.
17. The bids will be opened on due date and time indicated in presence of the bidders if any present on the occasion, if the date of the opening is declared holiday the bids will be opened on next working day.
18. For imported goods, the payment will be made through Letter of Credit. No advance payment will be made. Payment will be made after the receipt, inspection and installation/testing of the goods.
19. At least two Details of reputed Organizations (preferably govt.) where the vendor has executed/running similar type of rate contract are to be supplied.
20. University reserves the rights of accepting in full or part/not accepting the tenders without assigning any reason.
21. Any addition/deletion/modification of this tender made before the due date of the tender will be displayed in university website only.
22. Please visit university website regularly for any information/updates.

Registrar (Acting)

**Bidder profile (Technical)****Annexure-I**

Sr. No	Desired Details	
1.	Name of the Firm	
2.	EOI cum tender bid Fee Details Name of Bank Amount Date	
3	Registered Office address Telephone Number Fax Number e-mail	
4.	Correspondence/ contact address	
5.	Details of Contact person (Name, designation, address etc.) Telephone Number Fax Number e-mail	
6.	Is the firm a registered company? If yes, submit Documentary proof. Year and Place of the establishment of the Company	
7.	Bidder's Bank Details Name of Bank A/c No. IFS Code	
8.	Is the firm Government/ Public Sector Undertaking propriety firm partnership firm (if yes, give partnership deed) limited company or limited corporation member of a group of companies (if yes, give name and address, and description of other companies) subsidiary of a large corporation (if yes give the name and address of the parent organization) If the company is subsidiary, state what involvement if any, will the parent company have in the project.	

9.	Is the firm registered with sales tax department? If yes, submit valid sales tax registration certificate.	
10.	Is the firm registered for service tax with Service Tax department? If yes, Submit valid service tax registration certificate.	
11.	What type best describes your firm? · Manufacturer · Supplier · System Integrator · Consultant · Service Provider (pl. specify details) others	
12.	Details of Empanelment Certificate/Purchase Order of any 3 PSUs / Govt. institutions, enclosed 1)	
	2)	
	3)	
13.	Have you ever been denied tendering facilities by any Government/ Department/ Public sector Undertaking? (Give details)	

**Financial Information Summary**

S. NO	Name of the Bidder	Turn Over ( Rs. Crores) Total of 3 Financial Years			Average Turn Over for three years
		2013-14	2014-15	2015-16	

**Note : Please enclose certificate issued by CA in this regard.**



## DECLARATION

1. I, ----- Son /Daughter of Shri -----  
----- Proprietor/ Partner/ Director/ Authorised Signatory of M/s. -----  
----- am competent to sign this declaration and execute this  
EOI cum tender bid document.
2. I have carefully read and understood all the terms and conditions of the EOI cum tender bid and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my bid at any stage besides liabilities towards prosecution under appropriate law.
5. Our firm is neither blacklisted by any Government Department nor is any Criminal Case registered against the firm or its owner or partners or directors anywhere in India.

Date : -----

Place : -----

Signature of the Authorised Person

Full Name : -----

Company Seal : -----

Mobile No.- -----

Note : 1. The above declaration, duly signed and sealed by the authorised signatory of the firm/company, should be enclosed with the EOI cum tender bid document.

**2. Certificate as per above must be submitted only on non-judicial stamp paper of Rs. 100/-**

**Annexure-II**

Please quote rates for apparatus separately or in a list for the items in Schedule -I

**Financial Bid**

For Indigenous Items

Item No.	Name of Instruments & Specification	Unit Price (inclusive all except tax)	CST/VAT/Tax if any,	Total Unit Price

For Foreign Items, If quoted

Item No.	Name of Instruments & Specification	Name of Manufacturer	Unit Price	CST/VAT/Tax if any,	Total Unit Price CIP/DDU/CIF/FOR Kolkata/Mumbai/Delhi/Bilaspur Price

Other terms & Conditions required should also be enclosed with the bid.

**Schedule: I****Technical Specifications of Instruments under DST-FIST Programme****Item no. -1****Detailed Technical Specifications of “Spectrofluorometer”- Qty-01**

Measurements modes	:	PC Controlled system with measuring fluorescence, phosphorescence or chemiluminescence, bioluminescence, etc; for liquid, solid, thin films samples analysis, having sample compartment of 10 cm (diameter) integrating sphere, one set cell for liquid samples
Source	:	Xenon arc lamp, 150 W having lifespan of 2000 hrs or better
Excitation/Emission Monochromator range	:	200 – 900 nm or better, with Grating having 1200 lines/mm or better
Detectors		Photomultiplier tube (PMT)
Wavelength Accuracy	:	+/- 1.0 nm or better
Wavelength Reproducibility	:	+/- 1.0 nm or better
Resolution	:	1.0 nm or better
Spectral band width	:	1 to 20 nm or better (excitation and emission)
Sensitivity	:	S/N of Raman lines of distilled water is 350 or more
Wavelength scanning rate	:	10 – 60,000 nm/min
Software operating system/ Data Analysis	:	Luminescence intensity, excitation and the emission wavelength display in real time. Software include a spectrum mode, 3D spectrum mode, photometric mode, quantitation mode, time-course mode, peak, normalization, merge, difference, interpolate and least squares fit.

**Item no. -2****Detailed Technical Specifications of “FT-IR Spectrometer” -Qty- 01**

<b>Parameters</b>	<b>Specifications</b>
<b>1. Spectral range</b>	Should be 6000- 500 $\text{cm}^{-1}$ or better
<b>2. Spectral resolution</b>	Should be better than $2\text{cm}^{-1}$
<b>3.Signal to noise ratio</b>	Should be better than 50000:1 for 1 minute peak to peak
<b>4. Detector</b>	Should be room temperature DTGS/DLATGS or better
<b>5. Optical design</b>	Should have gold coated mirrors permanently aligned and optics with capability to withstand high humidity having ZnSe beam splitter and ZnSe windows
<b>6. Accessory recognition</b>	Should have continuous monitoring of spectrophotometer components like source, laser, detector, interferometer, sampling modules must be automatically identified and spectral test routines must automatically start to verify accessory performance
<b>7. Accessory</b>	Universal ZnSe ATR for analysis of solid, liquid, paste, powder and gel samples
<b>8. Software specifications</b>	Software for data measurement, manipulation and evaluation with a step by step assistance. Should include search capabilities as well as the possibility to create user own libraries
<b>9. Applications</b>	Should be able to test solid, liquid, paste, powder and gel samples without sample preparation
<b>10. Other Optional Accessories to be offered</b>	<p>All necessary sample preparation accessories are to be offered under separate head for Transmission unit such as 15 Ton Hydraulic Press, Agate Mortar Pestle, KBr Die set, Liquid demountable cell with KBr windows, IR grade KBr Powder etc.</p> <p>All necessary installation pre-requisites are to be offered under separate head to make the system functional.</p> <p>The equipment has to be provided with a computer system (i3 or better processor) of standard configuration along with B/W laser printer</p>

**Item no. -3**

**Detailed Technical Specification of Electrochemical System (Cyclic Voltammeter) Qty – 01**

**Potentiostat:**

No. of channels: Minimum 1 channel and expandable to more.

Compliance voltage:  $\pm 10$  Volts or more

Potential range:  $\pm 10$ V or more

Maximum current: 100 mA

Input impedance:  $> 10^{12}$

Bandwidth:  $> 100$  kHz

Current resolution: 10 fA or less

Full scale sensitivity: 1 nA to 100 mA

Lowest current range: 1nA

High resolution 20bit data is needed for, DC Potential Amperometry, Chronopotentiometry Controlled Potential Electrolysis, Open Circuit Potential vs. Time.

**Galvanostat:**

Voltage Range:  $\pm 10$  V,  $\pm 1$ V

Applied current: 50 pA - 50 mA

Measured potential resolution: 0.02 mV

**Automatic Input output controls:**

Power Requirements: 220/240 V; 50Hz

Input / output ports: Voltage out, Current out and Voltage in

Cell port Control: Automatic purge gas control, stir speed control, Trigger control for Spectroelectrochemistry:

### **Techniques:**

(i) Cyclic voltammetry, Scan rate: 1 mV/s - 10 V/s (ii) Linear sweep voltammetry, (iii) Normal pulse voltammetry, (iv) Differential pulse voltammetry, (v) Square wave voltammetry, (vi) Linear sweep stripping voltammetry, (vii) Differential pulse stripping voltammetry, (viii) Square wave stripping voltammetry (ix) Controlled potential electrolysis, (x) Chronoamperometry, (xi) Chronopotentiometry (xii) Chrono coulometry, (xiii) Open circuit potential vs. time, (xiv) Constant potential amperometry, (xv)  $Q$  vs.  $t^{1/2}$  plot, (xvi)  $I$  vs.  $t^{-1/2}$  plot, (xvii) Double step chronopotentiometry,

### **CELL STAND consists of:-**

- Cell stand base unit with Magnetic Stirrer
- Faraday cage
- Gas purging assembly
- Lead clips
- Ag/AgCl reference electrode – 3 nos (For aqueous and non-aqueous solvent)
- Platinum Wire auxiliary electrode – 2 No.
- Glassy carbon working electrode – 2 No.
- Platinum working electrode – 2 No.
- Low volume cell vials – 2 Nos.
- Polishing kit – 2 No.
- Reference electrode storage vial – 2 No.
- Cell top plug – 2 No.
- Standard cell vials – 12 Nos.

### **Separate quotation for the following accessories**

- Au working electrode
- Pt wire gauge electrode for coulometry
- SCE reference electrode

**Item no. -4**

**Detailed Technical Specification of Microwave Synthesizer: Qty – 01**

- The Microwave synthesizer should have a power delivery system capable of providing continuous microwave power in programmable 1-watt increments throughout a range from 0 - 300 watts. The System must incorporate a modular design composed of a Focused Microwave Reactor Module.
- The System must be operated in sealed vials up to 10 mL in size or under atmospheric conditions in flasks up to 125 mL in size with a ground glass joint size of up to 24/40 in size with complete user-assured safety.
- It must automatically System must feature a microwave applicator that automatically adjusts during the synthesis procedure for changes in the polar and/or ionic properties of the reaction mixture.
- The Attenuator should Seal the Microwave and never allow the Microwaves to escape out of the cavity and ensures the Microwaves to focus on to the reaction vessel.
- The System must incorporate the ability to simultaneously apply microwave energy while cooling the reaction environment to perform high energy, low temperature synthesis.
- The working range of temperature should be 0 to 300 °C.
- System must allow the user to change all operating parameters in the midst of the run.
- The System must incorporate an in situ stirring system to affect the stirring of the reaction contents of both the atmospheric and sealed vials using off-the-shelf magnetic stir bars.
- The System must incorporate an automated vent and re-seal mechanism
- System should be offered with 100 nos 10ml vials, caps and septa.

**Following upgradable options to be quoted separately:**

- System should be upgradable to perform Pressurized Reactions.
- System should be upgradable adding the Gaseous Reagent while Performing the Pressurized Reaction.
- System should upgradable to perform sub-ambient temperature reactions up to -80°C.

Head Dept. of Chemistry, GGV, Bilaspur

## CHECK – LIST

S.No.	Details	Complied/ attached Yes/ No	Page Number
1.	Bidders profile is duly filled as per annexure Relevant attested documents in support are attached		
3.	Pan No. with ownership proof attached		
4.	Latest IT return attached		
5.	Valid TIN No. attached		
6.	CST No. attached		
7.	Annexure-I (in desired format) is attached by the bidder.		
8.	Annexure-II (in desired format) is attached by the bidder.		
9.	Annexure-III (in desired format) is attached by the bidder.		
10.	Annexure-IV (in desired format) is attached by the bidder.		
11	Declaration certificate (in desired format) is attached by the bidder.		
13	Details of reputed Organizations where the vendor has executed similar type of supplies		
14	Authorization Letter, from original manufacturer		

Dated: .....

Signature of Bidder.....

Name.....

Designation.....

Firm's seal.....