

### Guru Ghasidas Vishwavidyalaya,

#### (A central University)

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

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Ref. No. 72/\_JS\_005709/DST CRG-PHYSICS/GGV/2022,

Bilaspur, Dated 14/03/2022

#### **E-Tender**

Purchase of Microwave synthesis instrument and UV-Visible spectrophotometer under DST-CRG project (DST-CRG/2020/005709).

Guru Ghasidas Vishwavidyalaya, Bilaspur (A Central University) invites E-tender/Expression of Interest cum tender from reputed firms to supply Microwave synthesis instrument and UVvisible spectrophotometer with following specifications under DST-CRG project (DST-CRG/2020/005709) to Dr. Jai Singh, Department of Pure and Applied Physics, GGV, for supply, installation & commissioning:

#### **SPECIFICATION FOR INSTRUMENT**

To guarantee compliance with minimum laboratory safety requirements, and to ensure that

**Microwave synthesis instrument** with power units meets internationally-recognized safety norms and accessories.

First Instrument Name: Microwave synthesis instrument

#### **Technical Specifications of Microwave Synthesis Instrument**

Item	INSTRUMENTS	QTY
NO.		
01	Micro Wave Reactor System / Microwave Synthesis System	01
	The microwave system including refluxing and dry media synthesis capability is intended for organic /inorganic metal, ceramic and semiconductor nanomaterials synthesis at medium/ elevated pressure and temperature.	
S.N.	Specifications	
1.	The System must feature a power delivery system that is capable of providing conti microwave power in programmable 1-watt increments throughout a range from watts. The power delivery system must feature a switching power system that de continuous power that is duty cycle independent.	0 -300

2.	Custom must have a modular design composed of a Easured Missource Desitor Madula
2.	System must have a modular design composed of a Focused Microwave Reactor Module able to ensure efficient operation for the synthesis of compounds 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.
3.	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.
4.	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.
5.	<ul> <li>Standard features:</li> <li>Pressure: Reactions up to 280 psi</li> <li>Temperature: Up to 300° C control range optionally upgradable -80 °C</li> <li>Stirring: In-situ magnetic variable speed</li> <li>Microwave applicator: Single-mode self-tuning</li> <li>The System must incorporate an <i>in situ</i> stirring system to affect the stirring of the reaction contents of both the atmospheric and sealed vials using off-the-shelf magnetic stir bars.</li> <li>The System must incorporate the ability to simultaneously apply microwave energy while cooling the reaction environment. This capability is needed to perform high energy, low temperature synthesis.</li> <li>The System must incorporate the ability for Temperature Measurement and Feedback Control. This temperature control system must be non-invasive and have a working range of 0 °C to 300 °C.</li> <li>It must feature a sensor positioned under the cavity floor so that temperature measurement is independent of sample volume and reaction container size.</li> <li>System must allow the user to change all operating parameters in the midst of the run.</li> <li>The System must incorporate based on directly-entered parameters from an onboard keypad.</li> <li>System should be offered with 100nos 10ml vials, caps and septa.</li> </ul>
6.	Important Upgradable Options:         1. Should be upgradable to perform 80 ml Pressurized Reactions.         2. Upgradable to add the Caceous Reagent (such as Inert Cas) while performing the
	<ol> <li>Upgradable to add the Gaseous Reagent (such as Inert Gas) while performing the Pressurized Reaction.</li> <li>System must be upgradable to perform sub-ambient temperature reactions up to -80°C.</li> <li>Suitable Voltage Stabilizer should be offered for the instrument.</li> </ol>

Note
The instrument should be offered with minimum 24 months warranty from date of installation.
The bidder should arrange the supply of instrument up to Department Laboratory in Guru Ghasidas University; Bilaspur, however, purchaser will provide al necessary documents including DSIR certificate towards Customs clearance, concessional GST.
Point to point compliance sheet along-with 05 installation certificate in IIT/NIT/Govt. University/PSU/Govt. Research Institute must be submitted along with Bid
Offer should be in INR, FOR GGU. Multi Currency will be allowed for BOQ.

#### Second Instrument Name: UV-visible Spectrophotometer

#### **Technical Specifications of Instruments of UV-visible Spectrophotometer**

S. No	Parameter	Specification
1.	Optical design	Double beam with Czerny-Turner monochromator
2.	Spectral Bandwidth	Variable up to 2.0 nm or better
3.	Light Source	Entire UV and Visible range covering Xenon flash lamp with 3-year warranty or more
4.	Monochromator	Czerny-Turner
<del>5.</del>	Beam splitting system Scan Speed	Beam splitter 6000 nm/min or better
6.	Detectors	Silicon photodiode detectors for simultaneous sample beam and reference beam measurements
7.	Scan mode	Absorbance, % Transmittance, % Reflectance
8.	Resolution (nm)	1.0 nm or better
9.	Wavelength range	190–1100 nm
10.	Wavelength accuracy	/ 0.5 nm or better
11.	Wavelength reproducibility	$\pm 0.1$ nm or better
12.	Photometric range	$\pm$ 3.5 Abs or better
13.	Data interval	0.1 nm – 5.0 nm or better
14.	Baseline flatness	200 to 850 nm, 0.001 Abs or better
15.	Cuvette	Suitable quartz cuvette () must be provided with the main system
16.	Micro volume analysis (Optional)	Compatibility to upgrade the accessories for micro volume analysis up to 0.5 millimetre
17.	Software	Microsoft Windows operating system based genuine software must be provided with main system
18.	Computer	Branded PC or Laptop must be offered with main system which is compatible with system software
19.	Warranty	2 years from the date of installation or more

#### 1. Submission and Opening of Tenders: -

#### Important:

1.1 The tender document can be downloaded from the websites www.ggu.ac.in or www.eprocure.gov.in. "Corrigendum, if any, would appear only on the above web sites and not be published anywhere else".

1.2 Tender must be duly signed by an authorized signatory, of the tendering firm.

#### 1.3 Mode of Submission of Tenders: Online (soft copy)

- i. The tender document consisting of Specification of instruments and the set of terms and conditions for the supply of instruments to be complied with and other necessary documents can be seen and downloaded from websites www.ggu.ac.in or www.eprocure.gov.in
- ii. Tenderer must be registered on the website www.eprocure.gov.in for uploading the soft copy of the tender.
- iii. The intending tenderer (s) must read the terms and conditions of this tender carefully. Only the tender if eligible and in possession of all the documents required should submit the tender.
- iv. The intending tenderer (s) must have valid digital signature to submit the tender. Tenderer should upload documents in the form of PDF format or the format available on the website <u>www.eprocure.gov.in</u>
- v. Tenderer must upload on the E-Tendering website www.eprocure.gov.in the scanned copy of demand draft for Tender Cost Rs. 1500 (Non-refundable) and demand draft of Earnest Money Deposit (EMD) Rs.10000 in pdf format. All two files should be uploaded in one file named "Tender Cost EMD E-Tender Fee Name of Tenderer.pdf" within the period of tender submission.
- vi. Tenderers must upload on the E-Tendering website www.eprocure.gov.in the scanned copy of the tender documents and other desired documents, Technical (in pdf format) and Financial Tenders (as per format available on the website www.eprocure.gov.in) within the period of tender submission.
- vii. First pdf file titled "Technical Tender \_Name of Tenderer must have all required documents related to Technical Tender.
- viii. Second file (as per the format available on the website www.eprocure.gov.in) titled "Financial Tender Name of Tenderer" must have the Financial Tender.
  - ix. The Technical tender file must contain the scanned copies of duly signed tender document, certified copies of documents related to Eligibility Criteria, all relevant information and relevant for evaluating the tenderer technically, Corrigendum / Addendum / Other documents, if any, etc. as per the attached annexure (except annexure –III i.e., financial bid/BoQ).
  - x. Only those technical tenders whose Tender cost and EMD are found valid will be opened.

- xi. The tenderers are required to upload and submit page of (Audited) summarized Balance Sheet /summarized Profit & Loss Account for last 03 years (as given under Annexure I)
- xii. Tenderer must ensure to quote rate in the Financial Tender as per Annexure-III i.e. finance bid format in prescribed BoQ in e-tender softcopy. The rate shall be quoted up to 2 Decimals.
- xiii. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as "0" (ZERO).
- xiv. Information and Instructions for tenderers posted on websites shall form part of tender document.
- xv. The tenderers are advised to submit complete details with their tenders. The Technical Tender Evaluation will be done on the basis of documents uploaded on e-tendering web site(s) by the tenderers with the tenders. The information should be submitted in the prescribed proforma. Tenders with Incomplete/Ambiguous information may be rejected.
- Xvi. Online technical tender documents submitted by intending tenderers shall be opened only of those tenderers, whose Earnest Money Deposit (Rs. 10000), Cost of Tender Document (Non-refundable: Rs. 1500) and other documents placed in the envelope are found in order.
- xvii. Before the scheduled last date and time of submission of tender as notified, the tenderer can submit revised tender any number of times with clear note on the envelope.
- xviii. On opening date, the tenderer can login and see the tender opening process. After opening of tenders, they will receive the competitor tender sheets.
  - xix. The tenderer (s) if required, may submit queries, if any, through E-mail (Email of Assistant Registrar (Store): arstore@ggu.ac.in) to seek clarifications within 15 days from the date of uploading of Tender on website. Reply will be made for only those queries which are essentially required for submission of tenders. Queries received after 15 days from the date of uploading of Tender on website, extension of time for opening of technical tenders, etc. Technical Tenders are to be opened on the scheduled dates. Requests for extension of opening of Technical Tenders will not be entertained.
  - xx. It is mandatory that the original Demand Draft in favour of "Registrar, Guru Ghasidas Vishwavidyalaya" drawn on any scheduled bank payable at Bilaspur (CG) for the tender cost Rs. 1500 /- and EMD Rs. 10000 /- must reach to the "Assistant Registrar (store), Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur-495009, India" on or before the scheduled last

date of receiving the E-tender. The E-tender cell not be opened if the above demand draft are not received before the scheduled opening date of the tender.

- xxi. The tenderer is required to quote the rate strictly as per the term and conditions, specifications, standards given in the tender documents and not to stipulate any deviations.
- xxii. The quoted rate must be inclusive of all taxes including service tax/GST/etc.
- xxiii. Notwithstanding anything stated above, GGV reserves the right to assess the capabilities and capacity of the tenderer to supply instruments in the overall interest of GGV.
- xxiv. Financial tender of only technically qualified tenderers fulfilling the criteria laid down in this tender shall be opened subsequently. A tenderer may be called for presentation of the instruments before opening of the financial tender. Relevant information in this regard can be seen in subsequent part of the tender.
- 1.4 Last date for receipt of tenders online and original copy of DDs for the tender cost and EMD to Assistant Registrar (store), Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur-495009 is 03:30 PM on 23/03/2022.
- 1.5 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.
- 1.6 Date and Time of opening of the online E-tenders at 04:00 PM on 24/03/2022. (Venue: Conference Hall in Administrative Block, GGV).
- 1.7 Any addition/deletion/modification of this tender made before the due date of the tender will be displayed in the university website www.ggu.ac.in or <u>www.eprocure.gov.in</u> only.
- 1.8 Please visit university website for any information/updates.
- 2. Evaluation of the Tender:

For evaluation of Technical tenders, assessment towards eligibility criteria and other information as per Technical Tender of the tenderer shall be conducted. Those tenderers who are found technically qualified shall be considered for Financial Tender opening.

- 3. **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.
- 4. The tenders will be opened on due date and time indicated in the tender. If the date of opening is declared holiday the tenders will be opened on next working day.
- 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.

- 6. Al least two details of reputed organization (preferably Govt.) where the vendor has executed/running similar type of instruments are to be supplied.
- 7. **Performance Guarantee:** Performance Security for an amount of 5% of the order valuemay 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 tenderer. 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. Maximum educational discount for University as could be offered should also be mentioned. The University is **exempted from payment of custom etc.** on Scientific and technical equipment/instruments by DSIR, Govt. of India. Necessary certificate will be issued on demand.
- 9. 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.
- Unit price of each product and accessories should be quoted separately as per the financial bid (BoQ) Annexure-III in E-tender format.
- 11. The specifications and quantity indicated in the scheduled I. University reserve 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.
- 12. The Cost of the equipment should be inclusive of all taxes and statutory levies. Labour / installation charges, packing, transporting, forwarding, transit insurance, loading, unloading, commissioning, demonstration (at Dept. Pure And Applied Physics, GGV), freight etc. However, the tenderer may submit the details of the rates included in a separate sheet.
- 13. For imported goods price to be quoted "FOR Guru Ghasidas University Campus, Bilaspur (CG)". The tenderer has to arrange for clearance of the supplied goods from Indian ports through their own agents.
- 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.

- 15. Under any circumstances. No advance payment will be payable for custom clearance/ freight / insurance etc.
- 16. 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 %.
- 17. No commitment to accept lowest or any tender: 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 tender in favour of the University. University will not be obliged to meet and have discussion with any vendor, and or to listen to any representations.
- 18. Short listing of Vendors: University will create a shortlist of technically qualifying vendors and the financial tender 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 tenders of the short-listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.
- 19. University reserves the rights of accepting in full or part/not accepting the tenders without assigning any reason.
- 20. **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.
- 21. **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.

- 22. **Resolution of disputes (Arbitration and laws)**: In case of any dispute or difference arising out of or in connection with the EOI conditions/order and contract, the GGV and the tenderer will address the dispute/difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole arbitrator to be appointed by GGV. The arbitration shall be held in accordance with the provisions of the arbitration and conciliation act 1996 and the venue of arbitration shall be at Bilaspur only. The resolution of the arbitrator shall be final and binding on both the parties.
- 23. Jurisdiction: the courts at Bilaspur (C.G.) alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this EOI/contract. It is specifically agreed that no Court outside and other than Bilaspur (CG) court shall have jurisdiction in the matter.
- 24. Please feel free to contact Assistant Registrar (store), Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur (CG) for any clarification or any other information, with regard to this tender. E-Mail: <a href="mailto:arstore@ggu.ac.in">arstore@ggu.ac.in</a>

**DST-CRG Project, Principal Investigator** 

#### Dept. Of Pure and Applied Physics, GGV, Bilaspur

#### TECHNICAL INFORMATION OF THE TENDERER

#### Tenderer Profile Annexure I

Sr No	Desired Details	Information Furnished
1.	Name of the Firm	
2.	Registered Office address Telephone No Fax No E-mail	
3.	Correspondence/ contact address	
4.	Details of Contact person (Name, designation, address etc.) Telephone No Fax No E-mail	
5.	Is the firm a registered company? If yes, submit Documentary proof Year and Place of the establishment of the Company	
6.	Tenderer Bank Details Name of Bank IFCS Code Branch	
7.	Is the firm Government/ Public Sector Undertaking/ propriety firm/ partnership firm (if yes, give partnership/ 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 companyhave in the project.	
8.	Is the firm registered for service tax with ServiceTax department? If yes, <b>Submit valid</b> service tax registration certificate	
9.	What type best describes your firm? · Manufacturer · Supplier · System Integrator	

	<ul> <li>Consultant</li> <li>Service Provider (pl. specify details)</li> <li>Others</li> </ul>	
10.	Is the firm registered with sales tax department? If yes, submit valid sales tax registration Certificate.	
11.	<ul> <li>What type best describes your firm?</li> <li>Manufacturer</li> <li>Supplier</li> <li>System Integrator</li> <li>Consultant</li> <li>Service Provider (pl. specify details)</li> <li>Others</li> </ul>	
12.	Details of reputed Organizations where the vendor has executed similar type of supplies. If Yes, Submit Certificate/Purchase Order of any 3 PSUs / Govt. Institutions. enclosed PO and completion certificate 1)	
	2)	
	3)	
13.	Have you ever been denied tendering facilities by any Government/Department/ Public sector Undertaking? (If yes, Give details)	
14.	PAN Card No	
15	GST Reg. No	
16.	EMD details Name of Bank Amount DD No and Date	
17.	<b>Tender Fee Details</b> Name of Bank Amount DD No and Date	

Dated: .....

Signature of Tenderer..... Name..... Designation.....

Firm's seal		
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#### **Financial Details (last Three years)**

		,	Turn Ove	r ( Rs. in 1	Lakhs) To Years	otal of 3 Finan	cial		rage Over
Sr	Name of the	2018	-19	20	19-20	2020-2	1	For Thr	ee Years
Sr. NO	Tenderer	T	Duefet	T	Duefet	T	Dueffe	T	Durafit
		Turnover	Profit	Turnover	Profit	Turnover	Profit	Turnover	Profit

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

Validity : The tenders should be valid for at least for Three months period from the date of opening of the financial tender.

Dated: .....

Signature of Tenderer
Name
Designation
Firm's seal

# Declaration certificate must be submitted only on non-judicial stamp paper of Rs. 100/-

#### Annexure-II

#### DECLARATION

1. I, ------ Son /Daughter of Shri ------

----- Proprietor/ Partner/ Director/ Authorised Signatory of M/s. ------

------ --- sign this declaration and execute this tender document.

2. I have carefully read and understood all the terms and conditions of the tender 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 tender 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 : The above declaration, duly signed and sealed by the authorised signatory of the firm/company, should be enclosed with the tender document.

#### Annexure-III

### Financial Tender

- i. Please quote rates for Instruments as per detail specifications given in schedule-1 of this tender, for two instruments/equipments.
- ii. Rates are to be quoted only in the prescribed BoQ annexed (Annexure III) on-line. Multi Currency will be allowed for BOQ.
- iii. Quoted rates should be inclusive of all as detailed in the terms and conditions of this tender.
- iv. The Cost of the equipment should be inclusive of all taxes and statutory levies. Labour installation charges, packing, transporting, forwarding, transit insurance, loading, unloading commissioning, demonstration, freight etc. However, the detail of the rates included is to be submitted in a separate sheet for purpose of clarification (if required).
- v. For imported goods price to be quoted "FOR Guru Ghasidas University Campus, Bilaspur (C.G.)". The tenderer has to peruse the terms and condition of this tender in this regard.

# CHECK – LIST This checklist will be helpful to the tenderer for submitting their offer

S. No.	Details	Complied/ attached Yes/ No	Page Number
1.	1. Tender Cost Rs 1500/- (Non-refundable		
1.	2. Earnest Money Deposit (EMD). EMD of amount Rs. 10,000/-		
	TECHNICAL TENDER		
	1) Tenderer Profile(Annexure I)		
	2) Declaration (Annexure II)		
2.	3) Detailed technical specifications and literature/manuals of the goods/services to be supplied.		
	4) Technical compliance statement with deviation, if any.		
	5) Authorized partner/dealer/distributor certificate from the original manufacturer (If any).		
	<ul><li>6) Signed copy of E-tender document along with the attested copies of the support of information furnished by the tenderer.</li></ul>		
	7) Check list		
3.	Financial Tender (As per BoQ of the E-tender) Annexure-III .( Multi Currency Allowed For BOQ)		
4.	PAN with ownership proof attached		
5.	Valid TIN No. attached		
6.	CST No. attached		
7.	Valid GST Reg. No. attached		
8.	Details of reputed Organizations where the vendor has executed similar type of supplies (PO and Completion certificate attached).		
9.	Current valid Authorization Letter from OEM. (If tenderer is not an OEM)		