जम्मू केंद्रीय विश्वविद्यालय

Central University of Jammu

Rahya-Suchani (Bagla), District Samba-181143, Jammu (J&K) Ph: 01923-249 657 & Website: www.cujammu.ac.in

No: CUJ//Proc/Equip-Purchase/2017/05

Date: 04-08-2017

Cost of tender documents: Rs. 1,000/-

Issued to: M/s.

TENDER DOCUMENTS CUM RATE Contract And Registration Of Firms To Supply And Install Equipments / Instruments (Heating-Magnetic Stirrer, Combined Electroluminescence And Photoluminescence System, Double Beam Uv-Visible Spectrophotometer, Rotary Evaporator & Uv Vis Spectrophotometer)For The Central Univeristy Of Jammu



Last date and time to submit the bids

28.08.2017 by 03.00 p.m.

Date and time of opening of bids at University : 28.08.2017 by 03.30 p.m. Campus, Rahya-Suchani (Bagla), District

Samba-181143, Jammu (J&K), Tel: 01923 -

249657 ext 206



Instructions to the bidders

Preface: The Central University of Jammu is presently functioning from two campuses, Administrative Block at Rahya-Suchani (Bagla), District Samba, Jammu and Temporary Academic Block & Hostels at Sainik Colony, Jammu. The University intends to purchase equipments / instruments viz Heating-Magnetic Stirrer, Combined Electroluminescence and Photoluminescence System, Double Beam UV-Visible Spectrophotometer, Rotary Evaporator & UV Vis Spectrophotometer from OEM / authorized dealers for the University, likely to be installed at both the campuses.

- 1. Submission of tender: The sealed tenders are invited for supply and installation of equipments for the CUJ under two bid system viz. Technical bid: consisting of all technical details along with commercial terms and conditions [filled in Annexure-I duly signed and stamp, EMD, relevant technical documents & D.D. of Rs.1,000/- (if downloaded tender form is used)] and Financial bid [indicating item wise price for the items mentioned in the technical bid (Annexure-II)], in two separate sealed envelopes and should be super scribed as technical and financial bids accordingly. Both the sealed envelopes should be kept in a third envelope on which it should be super scribed 'Tender for scientific equipments for CUJ'.
- 2. Quotation of equipments / instruments: The Bidder may quote for all equipments/ instruments or part of it as mentioned at Annexure-I and should agree to accept the part supply order as per the criteria of lowest quoted bid for each item. Unit prices are to be quoted both in figures and in words. In case of a discrepancy, that quoted in words / least will be taken as valid.
- 3. **Opening of bids:** Initially the technical bids will be opened and scrutinized. The firm, who meets the basic requirement as per documents furnished, may be invited for full fledged display / demonstration / to present the samples before opening of financial bid. The University will not bear any cost for presentation of samples. The committee of the University will inspect the samples, may visit the show room / items supplied at other organizations to ascertain the quality. The University may shortlist three to four best quality firms. The financial bid will be opened for those firms who qualify technically and whose sample(s) has been agreed to the satisfaction level of the University. The decision of the University will be final in this regard.
- 4. **Selection of firm:** The firm will be selected amongst the shortlisted firm only and the equipments / instruments will be considered on lowest quoted basis item wise. Further, if the committee found that the quality of lowest quoted firm is not satisfactory, the committee may recommend and consider next lowest quoted firm. The decision of the committee will be final in this regard. The short listed tender along with the documents will be submitted to the competent authority and upon approval; the successful bidders will be issued purchase order.
- 5. Alteration in the bid: The bidder will not be permitted to alter or modify their bids after receipt by the University; however, the firm can withdraw the bid before the closing last date and time of the tender.
- 6. Availability and submission of tender form: The tender documents can be obtained in person from Procurement Branch, Rahya-Suchani (Bagla), District Samba-181143, Jammu (J&K) (Tel: 01923-249657) on payment of Rs. 1,000/- through DD favouring "Finance Officer, Central University of Jammu" payable at Jammu during working hours (10:00 to 17:00 hrs). The tender form can be downloaded from University website (www.cujammu.ac.in) and must be submitted along with the cost of tender form of Rs. 1,000/- and EMD. The downloaded tender form without cost of tender form will not be accepted. Last date to submit the tender is 28.08.2017 by 3:00 p.m. The filled in tender form can be dropped in tender box at the above



address or can be sent through post. The bids will be opened on the same day in presence of the bidders at 3:30 p.m. or any other date convenient to the University authorities, which shall be intimated separately. Hence, the firm should write their phone numbers and email ID on outside the sealed envelope to pass the information, if required.

- 7. **Registration:** The firm should be registered with the competent authority to manufacture and supply of equipments / instruments, GST no, Tax clearance cettificate and also furnish self attested copies of the following documents:
 - (a) Certificate of registration with competent authorities to manufacture and supply of equipments / instruments
 - (b) Valid registration with sale tax and service tax authority, if applicable.
 - (c) TIN / PAN/GST No
 - (d) Valid quality certificate from competent authority (i.e. ISO, ISI etc).
 - (e) Tax clearance certificate for the period ending 31.03.2017
 - (f) Experience certificate(s)/ Purchase Orders from Govt Organisations & User List
 - (g) Annual turnover with CA audited balance sheet for last three financial years (2014-15, 2015-16 & 2016-17) the Firm should not have incurred losses in any of the last three financial years
- 8. All the columns in financial bid are to be filled in words and figures. The variation in words and figures, if any, the lowest shall be taken into account.
- 9. In case the successful bidder declines the offer of contract, for whatsoever reason(s), his EMD will be forfeited.
- 10. The University reserves the right to reject all or any tender in whole, or in part, without assigning any reason thereof.
- 11. **Cost:** The rates quoted should be inclusive of all taxes, levies, freight, insurance, transportation, installation including accessories etc at the destination. Rates and make of the equipments are to be quoted in the financial bid as per tender document (Annexure-II), else it may not be considered. All the above stated elements of taxes and others are required to be shown separately and distinctly. The University will provide *Custom duty* and *Central Excise duty exemption certificate* in terms of Government notification No 51/96-Customs dated 23-07-1996 and 10/97-Central Excise dated 1-03-1997 respectively. Further, the University will also provide Certificate under SRO 129 of 2012, if applicable, for exemption of *State Entry tax* on scientific instruments.
- 12. Office: The firm should have its office / authorized dealer / workshop / representative within Municipal limit of Jammu / Samba to provide service after sale and to furnish the addresses of service centre with telephone number along with technical bid. The firm not having authorized office / service centre at Jammu will be required to arrange the service / repair after sale and furnish the certificate to this effect.
- 13. **Supply:** The firm selected will be required to supply the equipments within the six weeks from the date of issue of purchase order.

- 14. **Validity of quotation:** All entries in the tender form should be legible and filled clearly. Any overwriting or cutting which is unavoidable shall be signed by the authorized signatory. The bid shall be valid for 90 (ninety) days from the date of opening.
- 15. Taxes deduction at source as per provision will be made by the University.

Terms and conditions

- 16. In case the firm fails to supply the desired specification of equipments as per terms and conditions, the University reserves the right to place the order to the next higher bidder or outside agency and the difference of price will be recovered from the defaulter agency who has been awarded the initial order and this will be binding on the bidder.
- 17. The University does not pledge himself to accept the lowest quoted or any tender and reserve the right to accept the whole or any part of the tender or portion of the quantity offered and bidders shall supply the same / execute the order at the rate quoted by them.
- 18. **Rejection of tender:** The conditional tender, incomplete in any form, unfilled / unsigned bids, without required documents, EMD and cost of tender form (if downloaded form is used) shall not be accepted and on such bids any query / intimation will not be entertained. The tender documents are not transferable.
- 19. The committee may consider any bid, if feels that inadvertently certain required documents are not enclosed by the firm and the firm promises that the required documents obtained before the closing date of the tender will be furnished within stipulated time. The decision of the committee will be final in this regard.
- 20. **Specification:** The desired specifications and allied technical details are placed at Annexure-I, if required the same may be amended / up graded at the time of placing purchase order without increase in the quoted price. These are basic specifications; the firm may quote the same or higher specification as per enclosed annexure format only, without changing the specification and serial number. The committee may amend the specification or add higher specifications of equipment and their decision will be final in this regard.
- 21. Bid security / EMD: The filled in tender form without requisite security bid / EMD and cost of tender form Rs. 1,000/- (if the downloaded tender form is used) will not be considered. Both the DD (cost of Tender Form)/FDR (for EMDs) are to be drawn separately favouring "Finance Officer, Central University of Jammu" payable at Jammu. The EMD of bidders will be returned without interest after finalization of the tender. EMD of Successful Bidder(s) will be returned after receipt of Performance Security. 10% of the cost of Purchase order will be Performance Security and will be either submitted by the L-1 in the form of Bank Guarantee or deducted by the University from the payment of Bill, in case bank guarantee is not supplied. The security bid / EMD amount is as follows:

Item No	EQUIPMENT / INSTRUMENTS	QTY	EMD/ BID SECURITY
1.	Double Beam UV Vis Spectrophotometer	1	Rs 30,000/-
2.	UV-Visible Spectrophotometer	1	Rs 30,000
3.	Combined Electroluminescence and Photoluminescence System	1	Rs 30,000
4.	Rotary Evaporator	1	Rs 10,000
5.	Heating-Magnetic Stirrer	3	Rs 2,000

Note: EMD for each equipment mentioned above is to be paid collectively (in case a bidder desires to bid for all items) or separately (in case a bidder desires to bid for few or any of the items).

- 22. **Company profile:** The bidders must submit their company profile and must mention their make/model of the equipments which are offered to be supplied. A list of organizations / agencies to which equipments have been supplied may be furnished along with copies of supply order, with the technical bid.
- 23. **Experience:** Bidder should be original manufacturer / authorized dealer and should have minimum three years of experience in supply of similar equipments to Govt. / semi Govt. / PSU / reputed organization. A certified copy of the same should be attached with the technical bid.
- 24. **Warranty:** All the equipments should be with onsite comprehensive warranty for minimum period of two years (or as per OEM warranty period, whichever is later) after satisfactory installation and agreed by the University. The firm should repair / replace the faulty items free of cost during the warranty period.
- 25. Payment terms: No advance payment will be considered. The payment will be release in Indian rupees in the following orders:
 - (i) 90% payment of purchase order: After 100% supply & installation of equipments, subject to certification by the University.
 - (ii) 10% payment of purchase order / security deposit: After availing the warranty period plus one month or on receipt of Bank Guarantee of any nationalized bank of equal amount for a period of warranty plus one month.
 - (iii) The purchase order may be placed in phase manner and the payment may be considered phase wise.
- 26. Quantity: The quantity mentioned in the tender document can increase or decrease without changing the quoted price at the discretion of the University and the decision of the University shall be final in all respect. This is a tender cum rate contract and registration of suppliers initially for a period of one year and the item offered in the tender can be reordered at the same rate, terms & conditions within a period of twelve (12) months extendable by next year mutually agreed by both the parties.
- 27. **Management services:** The firm would be required to provide the management / consultation services etc. in respect of the equipments to establish any labs / hall, free of cost as and when required. The firm would provide consultancy to CUJ on Products & technologies that



would provide more efficiency in working. The firm should also share best practices adopted in the industry free of cost.

- 28. **Rights of the University:** The University reserves all the rights to reject or accept any tender without assigning any reason or cancel or withdraw the tender notice in part of full. The University reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time, without thereby incurring any liability to the affected bidder or bidders of the ground for such action.
- 29. Late submission of tenders shall not be accepted. If the tenders are sent by post / courier, it should be ensured that cover should be intact at the time of reaching destination without any damage or loss. The University is not responsible for any delay on account of postal / courier services.
- 30. Acceptance of terms and conditions: The bidder shall sign and stamp each page of this tender document and all other enclosures appended to it as a token of having read and understood the terms and conditions contained therein and submit the same along with the bid. The bidder would fill up the information in the Annexure enclosed at the end of this document at Chapter–III in clear and legible terms. Annexure shall also have to be signed and stamped by the bidder or its authorized signatory.
- 31. **Termination of contract:** If supply of equipments / instruments is not found satisfactory, the purchase order will be cancelled by the University at any stage. The University reserves the right to decrease or increase the quantity at the time of placing the work order; the firm will undertake the same at the quoted rates.
- 32. The firm should attend all the calls in respects of the fault, efforts should be made to rectify the major fault within 48 hours. The firm is to provide one single point of contact for effective communication to book the fault for users to seek timely support.
- 33. The University may procure certain equipments offered under DGS&D/GeM rate contract/rate(s), the firm may quote for both DGS&D and Non DGS&D rates, if available. The University will procure the equipments on lowest quoted (L-1) basis from the shortlisted firms on item wise and the firm can quote for any items or all the items, the University decision will be final in this regard. If the University procures certain items under DGS&D/GeM rate contract, the firm will be required to set / configure the supplied equipments technically on other equipments.
- 34. **Penalty clause:** The supply and installation of equipments / instruments has to be completed within stipulated time period, in case of delay and the University is not satisfied with the stated reason, the University reserves the right to impose the penalty equivalent to 0.5% per week of the value of undelivered goods or unperformed services limited to a maximum of 10% value of the purchase order / left over cost. Once the maximum is reached, the University may consider termination of the contract / order without any notice and further serious action may be initiated.
- 35. Settlement of dispute: In case of any dispute, University Headquarter (Samba) will be the jurisdiction and the Registrar, Central University of Jammu, shall decide the issue and his decision will be final and shall be the binding on both the parties.
- 36. In case of any disagreement or dispute between the first party (i.e. Central University of Jammu) and the second party (i.e. agency) arising out of or due to the terms and conditions of contact agreement, the Central University of Jammu shall have the discretion for settlement of

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such disputes by appointing a sole arbitrator and the award so made by the arbitrator shall be final and binding on both the parties. Jurisdiction shall be Jammu courts only, for any dispute.

(Procurement)

Central University of Jammu,

Place: Samba (J&K) Date: 04-08-2017

Encl: i) Annexure-I

: Technical bid (**8** pages)

ii) Annexure-II : Financial bid (8 pages)

TECHNICAL BID

(To be filled by the firm and to be submitted to CUJ in Technical Bid)

Sl. No.	Particulars of the Company/Firm	Details (if yes, furnish certificate No.)	Appendix No. (attached in bid)
1	Name of the OEM/Firm / Agency:	M/s.	
2	Status of the Firm / Agency: (Proprietorship / Partnership / Joint Stock Co. etc)		
3	Name of the Proprietor / Partner / Director		·
4	Address:		
	a) Head Office		
	b) Office at Jammu:		
5	Phone, Mobile No., E-mail & website		
6	Documentary proofs of:		
	a) Valid Registration with competent authority, certificate No.	Yes / No	
	b) Proof of incorporation	Yes / No	
	c) TIN / PAN No./GST No	Yes / No	
	d) Tax Clearance Certificate	Yes / No	
	e) Valid Registration no.	Yes / No	
	f) Registration with Sale Tax and Service tax no	Yes / No	
	g) Number of Years Experience		
	h) Experience certificate, where the agency has supplied, installed, tested and commissioned similar Scientific/Lab equipments to other govt /reputed organizations.	Yes / No	
7	Earnest Money deposit details:		
	a) Amount	Rs.	
	b) Name of the drawer and issuing bank		
	c) No. and date of bank draft/FDR/etc	v.	
9	Details of demand draft/ FDR etc &	Rs.	
10	Any other Information		



Annexure-I (contd..)

TECHNICAL BID

Chapter–III: Technical bid (Items with specification): To be filled by the firm and to submit to CUJ along with the technical bid.

	eed specifications to be demonstrated at the time of installation: QUANTITY: 01	Compliance with specifications Yes/No Please specify
Photometric System	Double beam optics	
Wavelength Range	190 to 900 nm or better	
Wavelength Accuracy	+/- 0.15 nm or better	
Wavelength Repeatability	+/- 0.06 nm or better	
Photometric range	Up to 5/6 Abs or better, Transmittance, Reflectance or better	
Spectral Bandwidth	Variable from 0.2 to 5 nm or better	
Resolution	0.17 nm or better	-
Wavelength Scan Speed	Up to 3000 nm/min or better	
Noise level	0.00005 Abs RMS (500nm) or better	
Stray light	0.005% at 220 nm, 340 nm & 370 nm or lesser	
Monochromator	Blazed Holographic grating Litrrow/Czerny-Turner mounting	
Detector	Photomultiplier	
Light source	Tungsten and Deuterium lamp with automatic switching	
Baseline stability	0.0003 Abs/h or lesser	
Baseline flatness	+/- 0.0008 Abs or lesser	
Quartz Cuvette	3 ml capacity 10mm path length (02 pair)	
Automatic Linear Cell Changer	Atleast Six Sample and one reference cell holder	
Optional (System should be upgradable)	Integrating sphere with inner diameter of 60mm or better for diffuse reflectance of direct powder/turbid sample analysis. Wavelength range upto 850nm or more with built in PMT detector.	
Software	Original licensed Windows 7/8 based Operating software with GLP/GMP compliant and built in features such as real time display of concentration Time scan, Photometric mode, Single/multiwavelength, capability for event recording (e.g. addition of reagent) and calculation of Enzyma	1 , -



	Kinetics, DNA/protein quantification etc. Validation Software Should also be supplied along with the instrument to check the performance parameters like Stray Light, Resolution, Noise Level, Drift, Baseline flatness etc. to support GLP/GMP compliant	
PC, Printer	Branded PC I3, 2GB RAM, 500GB HDD with Laserjet Printer, Online UPS with 30 minutes back up (please quote make and model)	
Installation and	Installation and Training to be provided at installation	
Training	site	
Warranty		
	Two Years	
Make/Model Please specify		
Agreed by firm (Yes/ No), If yes, Sl. No. of technical broacher/details enclosed)		



UV Vis SPECTROPHOTOMETER Specifications	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/ No), If yes, SI. No. of technical broacher/de tails enclosed)	Compliance with specifications Yes/No Please specify
PC controlled, scanning type (max range1900 nm/min or better) for UV Vis spectrometer with below specifications: Optics: True Double beam Source: D2 and Tungsten lamp Detector: High sensitivity & High Resolution PMT Measurable range: 190 -900 nm or better Spectral Bandwidth: 0.30-4.00 nm with 0.1/0.01 nm steps, motor driven or variable 0.1, 0.2, 0.5, 1,2, 4/5nm Spectral Resolution: ≤ 0.20 nm or better Stay Light: ≤ 0.0014 % T at 370 nm (50mg/L, NaNO₃) Photometric Linear Range: 4 Abs or better Wavelength Accuracy: ± 0.0.02 nm or better Wavelength Reproducibility: ± 0.009nm (Peak separation) or better Photometric Accuracy: ± 0.00016 Abs or better Baseline Flatness: ± 0.0002 Abs RMS Photometric stability (2 hour warm up, 2nm SBW, 1s AT or better): ≤0.0003 Abs @ 0 Abs or better Photometric noise (500nm, 2nm SBW, 1s): ≤0.00003 Abs @ 0 Abs or better Accessories: Peltier accessories for sample and reference temperature controller (0-100° C) and Temperature probe, Quartz cuvettes (3.5ml - 10ml path length (02 pair) or better & PC.			
Diffuse reflectance accessories 60 mm or more with powder cell holder, transmission holder, 10mm cuvettes holder, OEM supplied PC or i7 PC configuration, Laser printer, 3 KVA online UPS with minimum 30 min backup or better Warranty: System warranty of 3 years including UPS batteries Suitable: PC, Laser printer, 3 KVA online UPS with minimum 30 min backup		•	



(Combined Electroluminescence and		Qty	Make & Model	Compliance with
		ninescence System		Agreed by	specifications
A 00:	mbined electrolumin	escence and photoluminescence system		firm (Yes/ No),	Yes/No
hoa t	he assembled with	the following components. The system		If yes, Sl. No. of	Please
nas u	he assembled with	that electroluminescence measurement		technical broacher/detail	specify
musi	be assembled such	the semiconductor films deposited on		s enclosed)	
can	be carried out for	as semiconductor heterostructure films			
	sited on ITO/FTO co		1		
1	HC1-QE grating (starting at 250	Engineering Specifications QE Pro-FL Dimensions: (L x W x H) mm and inches 182	1		
	nm)	mm (7.17 in.) x 110 mm (4.33 in.) x 47 mm			
	OFLV-QE-350	(1.85 in.)			
	order sorting filter	Weight: kg and lb Spectrometer: 1.15 kg (2.6)			
	200 µm entrance	lbs.); power supply: 0.45 kg (1 lb.)			
	slit, 25 µm	Detector Type: Hamamatsu scientific grade,			
	entrance slit	back-thinned, TE Cooled, 1044 x 64 element			
		CCD array			
		Detector Range: 185 – 1100 nm			
		Detector Quantum efficiency: 90% (peak)		1	
		Spectroscopic Wavelength range: 350 – 1100			
		nm Spectroscopic Integration time: 8 ms to 60			
		minutes			
		Spectroscopic Signal-to-noise ratio: System:			
		1000:1 (single acquisition)			
		Grating: 14 gratings available (H1-H14),		,	g e comme e
	·	HC1 grating			
		Slit: 5, 10, 25, 50, 100 or 200 µm wide slits	•		
		(or SMA/FC bulkhead with no slit)			
		Optical resolution: 0.14 – 7.7 nm (Depende	·		
	*.	on grating and size of entrance aperture	,		
	1	Diode Laser (5mW) for calibration excitation			
		405nm, 532nm, 635nm, 650nm, 780 nm, and	1		
		840nm, Power supply for laser			
2	Replacable SLIT 100		1		
3	Replacable SLIT 100)um	1		
4	Replacable SLIT 200)um	1		
5	UV/VIS Collimating		1		
6	1000 um Premium F		1		
7	400 um Premium Fil		1		
8	HL-3 plus Vis-NIR	Engineering Specifications HL-3plus-INT	`- 1		
	Calibrated Light	CAL			
	Source for	Source: Tungsten halogen			
	Integrating Spheres	Wavelength range: 350-1050 nm			
L		Nominal bulb power: 5 W			



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	Warm-up time:* 15 minutes			
	Calibrated for: Absolute irradiance			
	$(\mu W/nm/cm2)$			
	Maximum uncertainty level: 3% (HL-3plus-			
	CAL) 7% (HL-3plus-INT-CAL)			
	Power requirements: 85-264 V, 50/60 Hz		,	
	Power Consumption: 1.2 A @ 12 VDC			
	Dimensions: 14 x 6 x 6 cm		, , , , , , , , , , , , , , , , , , ,	
9	Integrating Sphere, 50 mm, for irradiance	1		
10	Custom sample port for ISP with 12mm diameter	1		
11	I-VSource Meter	1		
12	Custom EL Box with Probe holders, with PL Provision and	1		
12	millipositioners	1		
13	Computer with Operating System, Necessary softwares, Interface	1		
13	with system	-		
14	405nm Diode Laser with Fiber Coupler	1		
- :	Output Power from MM Fiber100mW			
	Divergence (Full-Angle): <1 mrad			
	Beam Asymmetry: ≤1:1.2			
	Beam Diameter @ at $1/e 2: 0.8 \pm 0.1$ mm			
	RMS Noise: ≤0.1% (20Hz to 20MHz)			
1	Power stability: <±3% (4hr ±3°C)			
	Fiber Coupled to200μm			
	Fiber NA 0.22			
	Fiber Connector FC/PC			
	Fiber Length: 1m			
	Warm Up Time:<5 minutes			
	Cooling: Forced-air cooled			
	Operating Temperature, Case $0 \square \sim 40 \square$			
	Storage Temperature $-20 \square \sim 60 \square$			
	Operation Lifetime: 10000 hours			

Rotary Evaporator Specifications	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/ No), If yes, Sl. No. of technical broacher/de tails enclosed)	Compliance with specifications Yes/No Please specify
	01		
Rotary evaporator			
DC brushless motor drive with speed range of 5-300 rpm or better			
Manual control of heating bath, vacuum pump, chiller and drive			
rotation speed	-		
Digital displays for rotation speed and heating bath temperature			
1500cm ² or larger cooling surface area for better recovery rate			
Manual lift with integrated safety "lift- out-function			·
Provision to connect vertical, diagonal, reflux and dry ice			
condenser on same drive			
Heating temperature range of RT to 180°C for water and oil bath	ŀ		
application			
Bath capacity of 3 liters or more (bath with lower volume heat			
faster, saves time and energy)			
Heating bath can accommodated up to 3 liters of evaporation and			
receiving flak			
Heating bath should have heat control accuracy of ±1 K or less			
Safety temperature circuit and dry run protection of heating bath Locking function of heating bath for avoiding accidental changes	-		
of settings			
Heating bath can be used as standalone unit for different			
applications.			
Vacuum pump			
Two stage diaphragm pumps made of PTFE for protection against			
aggressive solvents			
Transparent front cover for detection of solvent build up			
Suction capacity or flow rate of 1.7 m ³ /h or more			
Ultimate vacuum level should be equal or less than 8 mBar			
Vacuum controller			
Modular digital Vacuum controller with ceramic pressure sensor			
for protection against chemicals			
Measuring range if 1-1100 mBar and accuracy of ±1 mBar or	•		
better			
Controller should be compatible with valve controlled and speed			
controlled pump			
Inbuilt solvent library which can store 11 programs or more			·
Provision to connect temperature sensor			



Auto cleaning option for large valve cycles	 	
USB AND RS232 interface for remote control data acquisitions		
and storage		
Warranty: 2 years or as per OEM (whichever is more)		
Installation and Training at Installation site (inclusive)		

Item No 5

Heating- Magnetic Stirrer Specifications	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/ No), If yes, Sl. No. of technical broacher/details enclosed)	Compliance with specifications Yes/No Please specify
Temperature controller: Microprocessor	01		
Accuracy: ±1 °C			
Display: Digital			·
Hot Plate: Ceramic			
Set safety temperature limit displayed digitally			
Hot Top indicator			
Hot surface warning to prevent burns			
Digital error code display			
Max. Stirring quantity: 3-4lit.			
Speed range: 50 - 1500 rpm			
Temperature range: RT - 350 °C			
Low power consumption			
Warranty: 2 years or as per OEM (whichever is more)			
Installation and Training at Installation site (inclusive)			

- 1. I have carefully read and understood all the terms and conditions of the tender and here by convey my acceptance of the same.
- 2. The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. 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.
- 3. **Declaration:** I hereby certify that the information furnished above is true and correct to the best of my / our knowledge. I understand that in case any deviation is found in the above statement at any stage, I / we will be blacklisted and will not have any dealing with the University in future
- 4. The firm is not a black listed firm, if found at later date, my tender can be rejected, even after awarded.

Signature with date & Seal of the agency	•	
Name of the applicant	:	
Designation	:	



Annexure-II

FINANCIAL BID

Chapter–IV: Financial bid: To be utilized by the bidders for quoting their prices of equipment/instruments items wise along with specification and to submit to Central University Jammu along in separate sealed envelope.

ITEM No 1

with following	High Resolution PC based VIS SPECTROPHOTOMETER guaranteed specifications to be demonstrated at e time of installation: QUANTITY: 01	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/No), If yes, SI. No. of technical broacher/de tails enclosed)	Basic Cost* (per Unit) INR	Total Cost** (INR) (Inclusiv e of all taxes, charges etc FOR)
Photometric System	Double beam optics	01			
Wavelength Range	190 to 900 nm or better				
Wavelength Accuracy	+/- 0.15 nm or better				
Wavelength Repeatability	+/- 0.06 nm or better				
Photometric range	Up to 5/6 Abs or better, Transmittance, Reflectance or better				
Spectral Bandwidth	Variable from 0.2 to 5 nm or better				
Resolution	0.17 nm or better				
Wavelength Scan Speed	Up to 3000 nm/min or better				
Noise level	0.00005 Abs RMS (500nm) or better				
Stray light	0.005% at 220 nm, 340 nm & 370 nm or lesser				
Monochromat or	Blazed Holographic grating Litrrow/Czerny- Turner mounting				
Detector	Photomultiplier				
Light source	Tungsten and Deuterium lamp with automatic switching				
Baseline stability	0.0003 Abs/h or lesser				
Baseline flatness	+/- 0.0008 Abs or lesser				
Quartz Cuvette	3 ml capacity 10mm path length (02 pair)				

Automatic Linear Cell Changer	Atleast Six Sample and one reference cell holder			
Optional (System should be upgradable)	Integrating sphere with inner diameter of 60mm or better for diffuse reflectance of direct powder/turbid sample analysis. Wavelength range upto 850nm or more with built in PMT detector.			
Software	Original licensed Windows 7/8 based Operating software with GLP/GMP compliant and built in features such as real time display of concentration, Time scan, Photometric mode, Single/multi-wavelength, capability for event recording (e.g. addition of reagent) and calculation of Enzyme Kinetics, DNA/protein quantification etc. Validation Software Should also be supplied along with the instrument to check the performance parameters like Stray Light, Resolution, Noise Level, Drift, Baseline flatness etc. to support GLP/GMP compliant			
PC, Printer	Branded PC I3, 2GB RAM, 500GB HDD with Laserjet Printer, Online UPS with 30 minutes back up (please quote make and model)			
Installation and Training	Installation and Training to be provided at installation site			
Warranty	Two Years or as per OEM (whichever is more)	•••		
Add Tax (es)*	GST @			
	Any other tax @			
4 11	TOTAL COST (in rupees)	In words: In figure:		

^{*} University will pay taxes as per actual.

** Basic Cost and Tax component(s) must be quoted separately

PC controlled, scanning type (max range1900 nm/min or better) for UV Vis spectrometer with below specifications: Optics: True Double beam Source: D2 and Tungsten lamp Detector: High sensitivity & High Resolution PMT Measurable range: 190 -900 nm or better Spectral Bandwidth: 0.30-4.00 nm with 0.1/0.01 nm steps, motor driven or variable 0.1, 0.2, 0.5, 1, 2, 4/5nm Spectral Resolution: ≤ 0.20 nm or better Stay Light: ≤ 0.0014 % T at 370 nm (50mg/L, NaNO₃) Photometric Linear Range: 4 Abs or better Wavelength Accuracy: ± 0.002 nm or better Wavelength Reproducibility: ± 0.009nm (Peak separation) or better Photometric Accuracy: ± 0.00016 Abs or better Baseline Flatness: ± 0.0002 Abs RMS Photometric stability (2 hour warm up, 2nm SBW, 1s AT or better): ≤0.0003 Abs @ 0 Abs or better Photometric noise (500nm, 2nm SBW, 1s): ≤0.00003 Abs @ 0 Abs or better Accessories: Peltier accessories for sample and reference temperature controller (0-100° C) and Temperature probe, Quartz cuvettes (3.5ml - 10ml path length (02 pair) or better & PC. Diffuse reflectance accessories 60 mm or more with powder cell holder, transmission holder, 10mm cuvettes holder, OEM supplied PC or 17 PC configuration, Laser printer, 3 KVA online UPS with minimum 30 min backup or better Warranty: System warranty of 3 years including UPS batteries Suitable: PC, Laser printer, 3 KVA online UPS with minimum 30 min backup Installation and Training at Installation site (inclusive) Add: Tax(es)* GST @ Any other tax @	UV \	/isSPECTROPHOTOMETER	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/ No), If yes, SI. No. of technical broacher/details enclosed)	Basic Cost* (per Unit) INR
Photometric Accuracy: ± 0.00016 Abs or better Baseline Flatness: ± 0.0002 Abs RMS Photometric stability (2 hour warm up, 2nm SBW, 1s AT or better): ≤0.0003 Abs @ 0 Abs or better Photometric noise (500nm, 2nm SBW, 1s): ≤0.00003 Abs @ 0 Abs or better Accessories: Peltier accessories for sample and reference temperature controller (0-100° C) and Temperature probe, Quartz cuvettes (3.5ml - 10ml path length (02 pair) or better & PC. Diffuse reflectance accessories 60 mm or more with powder cell holder, transmission holder, 10mm cuvettes holder, OEM supplied PC or i7 PC configuration, Laser printer, 3 KVA online UPS with minimum 30 min backup or better Warranty: System warranty of 3 years including UPS batteries Suitable: PC, Laser printer, 3 KVA online UPS with minimum 30 min backup Installation and Training at Installation site (inclusive) Add: Tax(es)* GST @	for UV Vis spect Optics: True Don Source: D2 and Detector: High s Measurable rang Spectral Bandwid driven or variabl Spectral Resolut Stay Light: ≤ 0.0 Photometric Lin Wavelength Re	rometer with below specifications: able beam Tungsten lamp ensitivity & High Resolution PMT e: 190 -900 nm or better dth: 0.30-4.00 nm with 0.1/0.01 nm steps, motor e 0.1, 0.2, 0.5, 1,2, 4/5nm ion: ≤ 0.20 nm or better 0014 % T at 370 nm (50mg/L, NaNO ₃) ear Range: 4 Abs or better curacy: ± 0.0.02 nm or better			
temperature controller (0-100° C) and Temperature probe, Quartz cuvettes (3.5ml - 10ml path length (02 pair) or better & PC. Diffuse reflectance accessories 60 mm or more with powder cell holder, transmission holder, 10mm cuvettes holder, OEM supplied PC or i7 PC configuration, Laser printer, 3 KVA online UPS with minimum 30 min backup or better Warranty: System warranty of 3 years including UPS batteries Suitable: PC, Laser printer, 3 KVA online UPS with minimum 30 min backup Installation and Training at Installation site (inclusive) Add: Tax(es)* GST @	Photometric Acc Baseline Flatnes Photometric sta better): ≤0.0003 Photometric no	ss: ± 0.0002 Abs RMS bility (2 hour warm up, 2nm SBW, 1s AT o Abs @ 0 Abs or better			
	temperature cor cuvettes (3.5ml Diffuse reflecta holder, transm supplied PC or UPS with minin Warranty: Sys Suitable: PC, L min backup	troller (0-100° C) and Temperature probe, Quart - 10ml path length (02 pair) or better & PC nce accessories 60 mm or more with powder ce ission holder, 10mm cuvettes holder, OEN i7 PC configuration, Laser printer, 3 KVA onlin num 30 min backup or better tem warranty of 3 years including UPS batteries aser printer, 3 KVA online UPS with minimum 3	z		
	Add: Tax(es)*				

* University will pay taxes as per actual.

** Basic Cost and Tax component(s) must be quoted separately

	Combined El	Qty	Make &	Basic	
	Photolun		Model Agreed by	Cost*	
A co		nescence and photoluminescence system		firm (Yes/ No), If	
			yes, Sl. No. of		
		the following components. The system that electroluminescence measurement		technical broacher/details	
		the semiconductor films deposited on		enclosed)	
		as semiconductor heterostructure films			
	sited on ITO/FTO co				
1	HC1-QE grating	Engineering Specifications QE Pro-FL	1		
	(starting at 250	Dimensions: (L x W x H) mm and inches 182	1		
	nm)	mm (7.17 in.) x 110 mm (4.33 in.) x 47 mm			
	OFLV-QE-350	(1.85 in.)			
	order sorting filter 200 µm entrance	Weight: kg and lb Spectrometer: 1.15 kg (2.6			
	slit, 25 µm	lbs.); power supply: 0.45 kg (1 lb.)			
	entrance slit	Detector Type: Hamamatsu scientific grade, back-thinned, TE Cooled, 1044 x 64 element			
		CCD array			
		Detector Range: 185 – 1100 nm			
		Detector Quantum efficiency: 90% (peak)			
		Spectroscopic Wavelength range: 350 – 1100			
	yl- Jea	nm			
	1500 300 m	Spectroscopic Integration time: 8 ms to 60			
		minutes Spectroscopic Signal-to-noise ratio: System:			
		1000:1 (single acquisition)			
		Grating: 14 gratings available (H1–H14),			
		HC1 grating			
		Slit: 5, 10, 25, 50, 100 or 200 μm wide slits			
		(or SMA/FC bulkhead with no slit)			
		Optical resolution: 0.14 – 7.7 nm (Depends			
		on grating and size of entrance aperture Diode Laser (5mW) for calibration /		·	
		excitation			
		405nm, 532nm, 635nm, 650nm, 780 nm, and			
		840nm, Power supply for laser			
2	Replacable SLIT 10u	1			
3	Replacable SLIT 100	1			
4	Replacable SLIT 200	1			
5	UV/VIS Collimating	1			
6	1000 um Premium Fi	1			
7	400 um Premium Fib		1		
8	HL-3 plus Vis-NIR Calibrated Light	Engineering Specifications HL-3plus-INT-CAL	1		

•	Source for	Source: Tungsten halogen			П	
	Integrating Sph					
		Nominal bulb power: 5 W				
-		Warm-up time:* 15 minutes				
		Calibrated for: Absolute irradiance				
		(μW/nm/cm2)		.*		
		Maximum uncertainty level: 3% (HL-3plus-				
		CAL) 7% (HL-3plus-INT-CAL)	-			
		Power requirements: 85-264 V, 50/60 Hz				
		Power Consumption: 1.2 A @ 12 VDC			* .	-
	Into quotin a Cul	Dimensions: 14 x 6 x 6 cm here, 50 mm, for irradiance	1			
9			1			
10		e port for ISP with 12mm diameter	1			
11	I-VSource Met	·	1			
12		Box with Probe holders, with PL Provision and	1			
	millipositioner		1			
13	with system	h Operating System, Necessary softwares, Interface	1			
		Laser with Fiber Coupler	1			
14		from MM Fiber 100mW	1			
		ull-Angle): <1 mrad				
	Beam Asymm		į.			
		er (a) at $1/e 2 : 0.8 \pm 0.1$ mm				
		0.1% (20Hz to 20MHz)				
		y: <±3% (4hr ±3°C)				
	Fiber Coupled					
	Fiber NA 0.22					
	Fiber Connect	or FC/PC		i		
	Fiber Length:					
	Warm Up Tin		}			
	Cooling: Force					
		nperature, Case $0\Box \sim 40\Box$				
	Storage Temp					
	, .	etime: 10000 hours				
		eyears or as per OEM (whichever is more)				
		and Training at Installation site (inclusive)	-			
15	Add Tay(as)*	GST@	-			
	Tax(es)*	Any other tax(es)please specify				
.16		TOTAL COST** (INR including taxes)				

^{*} University will pay taxes as per actual.

** Basic Cost and Tax component(s) must be quoted separately

Item No 4

Rotary Evaporator Specifications	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/No), If yes, SI. No. of technical broacher/details enclosed)	Basic Cost*
	01	i	
Rotary evaporator DC brushless motor drive with speed range of 5-300 rpm or better Manual control of heating bath, vacuum pump, chiller and drive rotation speed Digital displays for rotation speed and heating bath temperature 1500cm ² or larger cooling surface area for better recovery rate Manual lift with integrated safety "lift- out-function Provision to connect vertical, diagonal, reflux and dry ice condenser on same drive			
Heating temperature range of RT to 180°C for water and oil bath application Bath capacity of 3 liters or more (bath with lower volume heat faster, saves time and energy) Heating bath can accommodatedup to 3 liters of evaporation and receiving flak Heating bath should have heat control accuracy of ±1 K or less Safety temperature circuit and dry run protection of heating bath Locking function of heating bath for avoiding accidental changes of settings			
Heating bath can be used as standalone unit for different applications. Vacuum pump Two stage diaphragm pumps made of PTFE for protection against aggressive solvents Transparent front cover for detection of solvent build up Suction capacity or flow rate of 1.7 m³/h or more Ultimate vacuum level should be equal or less than 8 mBar Vacuum controller			
Modular digital Vacuum controller with ceramic pressure sensor for protection against chemicals Measuring range if 1-1100 mBar and accuracy of ±1 mBar or better Controller should be compatible with valve controlled and speed controlled pump Inbuilt solvent library which can store 11 programs or more Provision to connect temperature sensor			

	on for large valve cycles		
USB AND RS232	interface for remote control data acquisitions		
and storage			
	or as per OEM (whichever is more)		
Installation and Tra	ining at Installation site (inclusive)		
	GST @		
Add: Tax(es)*		 	
TO			

^{*} University will pay taxes as per actual.

Item No 5

Heating	g- Magnetic Stirrer Specifications	Qty Reqd (Approx)	Make & Model Agreed by firm (Yes/ No), If yes, Sl. No. of technical broacher/details enclosed)	Basic Cost*
Temperature control	ler: Microprocessor	01		,
Accuracy: ±1 °C				
Display: Digital				• '
Hot Plate: Ceramic				
Set safety temperatu	re limit displayed digitally			
Hot Top indicator				
Hot surface warning	•			
Digital error code d	* ·		4	
Max. Stirring quant	~ ~			
Speed range: 50 - 1				
Temperature range:	RT - 350 °C			
Low power consum	•			
	r as per OEM (whichever is more)	·		
Installation and Tra	ining at Installation site (inclusive)			
	GST @			
Add: Tax(es)*	Any other Tax, charge etc @			
TOTAL (COST** (INR including taxes)			

^{*} University will pay taxes as per actual.

^{**} Basic Cost and Tax component(s) must be quoted separately

^{**} Basic Cost and Tax component(s) must be quoted separately

^{*} The University will provide **Custom duty** and **Central Excise duty exemption certificate** in terms of Government notification No 51/96-Customs dated 23-07-1996 and 10/97-Central Excise dated 1-03-1997 respectively. Further, the University will also provide Certificate under SRO 129 of 2012, if applicable, for exemption of **State Entry tax** on scientific instruments.

- 1. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.
- 2. The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. 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.
- 3. **Declaration:** I hereby certify that the information furnished above is true and correct to the best of my / our knowledge. I understand that in case any deviation is found in the above statement at any stage, I / we will be blacklisted and will not have any dealing with the University in future.

4.	The firm	is not	a black	listed	firm,	if found	at	later	date,	my	tender	can	be	rejected,	even
after a	warded.														

Signature with date & Seal of the agency	:	
Name of the applicant	:	
Designation	:	

