

BHARATHIAR UNIVERSITY : COIMBATORE 641 046

TENDER NOTICE

Ref.No. C7/DST-PURSE-PHASE-II / 11397 /2020

Date. 14.08.2020

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 up to 3.00 P.M on 11.09.2020 (Separate Technical bid and Commercial bid) from the **ISO Certified firms for the supply and installation of Confocal Microscope for the DST-PURSE (Phase-II) Program.**

<p>TENDER COST: Rs. 15,750/- EMD: Rs.1,65,000/- LAST DATE FOR SUBMISSION OF TENDERS: 11.09.2020 up to 3.00P.M. TECHNICAL BIDS OPENING DATE : 11.09.2020 at 4.00 P.M.</p>

For Tender document and details of Terms & Conditions can be downloaded from our website www.b-u.ac.in and www.tenders.tn.gov.in from **17.08.2020 to 11.09.2020 .**

NOTE: This tender will be governed by the Tamil Nadu Transparency in Tenders Act 1998 and Rules 2000 as amended from time to time

**REGISTRAR i/c
BHARATHIAR UNIVERSITY**

BHARATHIAR UNIVERSITY –COIMBATORE 641 046

TENDER TERMS AND CONDITIONS

1. Sealed Tenders will be received by the **Registrar, Bharathiar University from the ISO Certified firms up to 3.00 p.m. on 11.09.2020** for the **supply and installation of Confocal Microscope to be purchased under DST-PURSE (Phase-II) Program as specified in the schedule (Appendix)**.
2. Tender should be addressed to the Registrar, Bharathiar University and should be only in sealed covers by Registered post/ or in person. Tenders received in ordinary covers without seal will not be considered.
3. The tender cover with **Ref.No. should be superscribed as “Tender for the supply and installation of Confocal Microscope under DST-PURSE (Phase-II) Program**. The covers received without such superscription will be rejected summarily. All covers containing the tender should be sealed. Separate sealed covers should be used for technical and price bid and please be superscribed on the cover
4. **Technical Bids will be opened on 11.09.2020 at 4.00 p.m. by the Registrar or his/her nominee in the presence of the tenderers** or their representatives may be present at the time of opening. The representatives of the tendering firms who are attends during opening of the tenders must produce their identification proof and authorization letter from the tendering firms

Price bids will be opened after technical evaluation of bids which will be informed later.

5. Each tender shall be accompanied with the requisite Tender Cost of **Rs.15,750/- and EMD of Rs.1,65,000/-** in the form of DD drawn in one of the Nationalized Banks in the name of “Registrar, Bharathiar University” payable at Coimbatore. Bank Guarantees will not be accepted.
6. Tenders without EMD shall be summarily rejected. EMD will not carry any interest. If tenderers specifically exempted by the Government from the payment of earnest money deposit /tender cost necessary certificate (SSI, NSIC) in respect of the item for which the registration certificate has been obtained
7. **The University is not be responsible for any postal delay in receipt of tender. Delayed/Late bids will not be accepted at any circumstances. Any tender received after the due date will be returned to the tenderer**
8. The tender shall be valid for a **maximum period of 180 days** from the date of opening of the tender in acceptance. If the tender validity is less than **180 days** the tender will be rejected as non-responsive tender. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it opened, the EMD will be forfeited and black listed.
9. **Faxed bids will be rejected.**
- 10 **The initial examination shall consider the following factors, namely:-**
 - (a) Whether the tenderer meets the eligibility criteria laid down in the tender documents;
 - (b) Whether the tender documents each page have been duly signed;
 - (c) Whether the requisite Earnest Money Deposit (EMD) with appropriate validity has been furnished;

- (d) Whether the tender is substantially responsive to the technical specifications and commercial conditions set out in the tender documents.
- e) Tenders which on initial examination are found not to be substantially responsive under any of the above clauses shall be rejected for further scrutiny.

11..TECHNICAL BID –Evaluation - Eligibility Criteria

The bidders must fulfil the following eligibility conditions and also submit the documentary evidence in support of fulfilling these conditions while submitting the technical bid

- a. The brief description of the equipment with make and model
- b. A tenderer should be a manufacturer possessing a valid manufacturing license from the competent authority for manufacturing the items. (Documentary evidence to be furnished)
- c. The manufacturer should be an ISO:9001/Equivalent certified company.
- d. Documentary evidence should be enclosed.
- e. Authorized Dealer can also bid with authorization letter from the Principal Manufacturer of OEM for the proposed equipment who has supplied in India over the past three years. (Documentary evidence to be furnished).
- f. **A manufacturer shall not authorize more than one dealer / distributor** for participating in this tender.
- g. In case a tenderer is participating as an authorized Dealer/Distributor the manufacturer of the item should satisfy the conditions mentioned at (b) and (c) above
- h. The Copy of the GST Registration Certificate and Copy of PAN
- i. The annual turnover of the bidder for the last three financial years
- j. The tenderer submitting their offer must have supplied and installed of similar nature of the item most preferably orders received for previous two/three years from Govt department/Institutions/University/Govt undertaking/ organizations(documentary evidence to be enclosed)
- k. The tenderer should not have been blacklisted or debarred from participating in tenders by any Central/State Government agencies or autonomous bodies or universities/ institutions. (An undertaking to this effect should be furnished)

12) The bidders who fulfil the eligibility criteria laid down will be considered for technical evaluation. The price bid of the technically qualified bidders will be opened for negotiation

13)PRICE BID: Price shall be quoted as per the format given in Appendix-.

The tenderer shall not carry out any alteration in the format prescribed for Price Bid. The tenderer shall not enclose any other document or statement that will influence the price. In such an event, the tender inviting authority shall summarily reject the tender.

Imported : The tenderer shall quote the price in currency for **CIP Chennai /FOR Coimbatore inclusive of all other charges** (break up details necessary) up to the destination and should be indicated clearly both in words and figures.

Indigenous: The tenderer shall quote the basic price, inc of GST and warranty. No separate charges for warranty period will be considered

Any scoring or overwriting in the price bid should be attested by the bidder with full signature. The rate quoted should be firm and should not be subject to any variation clauses.

The university shall not pay any increase in duties, taxes and surcharges on account of any revision by the Govt after allotment /issue of work order / at the time of supply.

14) Price bid evaluation will be done for imported inclusive of the customs duty. For indigenous inclusive of GST.

15)THE EMD IS LIABLE TO BE FORFEITED :

- i) If the Tenderer withdraws his tender after the tenders are opened., the EMD will be forfeited and black listed.
- ii) If the successful tenderer fails to furnish the required security deposit or the agreement, within the stipulated time limit
- iii) The EMD of the unsuccessful tenders will be refunded immediately after the tenders are disposed of by the competent authority.

16) PERFORMANCE SECURITY :

- i. Successful tenderer has to furnish Security Deposit equivalent to 6.5% of the ordered value either in form of Demand Draft drawn in favour of “The Registrar” Bharathiar University payable at Coimbatore or in the form of irrevocable bank guarantee obtained from any Nationalized/Scheduled bank.
- ii. The EMD of the Successful Bidder will be adjusted towards Security Deposit (SD). (Security Deposit will be released only after the expiry of the warranty period .

17)PAYMENT

Imported: 100% payment will be made through irrevocable letter of credit in favour of the Principal Supplier (OR) Currency wire transfer after supply in favour of the Principal supplier. Advance payment is not applicable

Indigenous:The payment will be made only after supply and installation of the equipment either by Cheque or RTGs

The commissioning and installation should be completed within the stipulated period mentioned in the supply order. If the supply is not made within the period, the supply order will be cancelled and the EMD & Security deposit will be forfeited.

18) CUSTOMS DUTY & TAXES :

Imported :

The equipment purchased is for Research and Development activities. University is registered with DSIR and exempted from customs duty for all research equipments as per the Government Notification No: 51/ 96 Customs Dt.23.7.1996.and Government Notification No.10/97 Central Excise Dt: 1.3.1997. If the equipment has Customs Duty as per Customs Tariff of India, **the tenderer should mention HS Code for the said equipment.**

The University shall provide all the documents under this notification to enable the supplier to clear the goods whenever required after receipt of invoice, airway bill /shipping notice from the principal supplier .

Indigenous :

The GST and IGST will be paid as per Govt Notification No.45/2017 –Central Tax (Rate) & 47/2017-Integrated Tax(Rate) dated 14.11.2017 : NO. 9/2018-Central Tax(Rate), No.09/2018-Union Territory Tax(Rate) & No.10/2018 – Integrated Tax(Rate) dated 25.01.2018: and State Tax(Rate).

- 19) Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.
- 20) The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.
- 21). Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.

22) **Agreement :**

For the fulfilment of the order, Successful tenderer shall execute an agreement for the fulfilment of contract in Rs.100.00 Non judicial stamp paper of Tamil Nadu Government . If failed to execute the agreement, the EMD will be forfeited. The conditions stipulated in the form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to be right of the University and to recover any consequential loss from the successful tenderer.

- 23). **Loss or Damage:** External damages or shortages that are prima facie the results of rough handling in transit or due to defective packing will be intimated within a fortnight from the date of receipt of the material, Internal defects, damages of any internal parts that cannot ordinary be exhibited on superficial inspection though due to bad handling in transit or defective packing will be intimated within two months from the date of receipt of the stores. In either case the damaged or defective stores will have to be taken back at supplier's cost and risk.
- 24) **Guarantee:** The Supplier shall undertake to repair free of charge or replace any defective part of the equipment supplied due to defective or faulty design or bad workmanship during a period of three years from the date of commissioning of the equipment.
- 25) **Leaflets and Descriptive Literature:** Full descriptive particulars and manuals of the equipment offered should accompany the tender. Information regarding the country of manufacturer or origin of materials in the manufacture of articles should be furnished.
- 26) **Tests:** Manufacturer's certificate for the routine tests specified in the BSS of the test issue or as per manufacturer's standard practice should be forwarded in duplicate. The materials will be rejected, if the test results are not satisfactory.
- 27) **Penalty Clause:** The delivery should be guaranteed by you under the penalty clause mentioned hereunder:

“Should delivery be delayed by strike, lockouts, fire accidents or any cause whatsoever, beyond the reasonable control of the contractor and whether such delay or impediment occurs before or after the time or extended time for dispatch or completion, a reasonable extension time shall be granted.

If the contractor fails in due performance of this contract, within the time fixed by the contractor the extension thereof, the contractor is liable at discretion of the purchaser to a penalty of 4% per month of the contract value of such portion only of materials as cannot, in consequence of the delay, be used during each month between the appointed or extended time as the case may be and the actual time of acceptance, and such penalty shall be in full satisfaction of the contractor's liability for the delay but shall no in any case exceed 25 % of the contract value of such portion of the materials.

28). If the successful tenderer failed to act up to the tender or backs out when his tender accepted, Security deposit will also be forfeited .

29)The material should be supplied strictly in accordance with the specifications given in the Appendix and should fulfil the successful tests carried out by the Competent Authority of the University. The supply and installation should be made as per the delivery schedule The guarantee period shall take effect from the date of installation. Successful tenderer shall be liable to change any defective part during the warranty period. In either case the damaged or defective items will have to be taken back at supplier's cost and risk.

30)Training at University Campus at free of charge.

31)No communications from any tenderer adding to/adhering or explaining any terms of the tender will be considered prior to the submission or after opening of the tenders by the competent authority

32) Amendment

Tender Inviting Authority may amend the tender wherever it is felt that such an amendment is absolutely necessary.

In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be uploaded in the website only and bidders are requested to verify the amendments before the submission of the tender provided **no such change could be effected 48 hours prior to the time fixed for opening of the tender**

32) The tender shall be submitted subject to and agreeing the above terms and conditions duly attested and certified.

TO BE FILLED IN BY THE TENDERER:

Tender Cost		EMD	
DD No /Date	Amount	DD No/Date	Amount

SIGNATURE OF THE TENDERER

Live Cell Confocal system containing high sensitivity detectors” Qty Req-1No.**Detailed specifications:****A. Motorized Inverted Fluorescence Research Microscope:**

- a) Fully Motorized Inverted Fluorescence Microscope for BF/DIC/Fluorescence preferably with touch pad for controlling motorized components of the microscope.
- b) Tilttable binocular/trinocular eyepiece
- c) Programmable fast motorized X-Y scanning stage including sample holders for slides, 35/60 mm Petri dish, Labtek chambers and multi well dishes with multipoint, tile and mosaic imaging software (capable of fast 6D imaging).
- d) Fast stage insert for z stack imaging with travel range of 100 microns or better.
- e) Hardware Based Focus Drift compensation for long term live cell imaging application is mandatory.
- f) LED illuminator for fluorescence catering to the following fluorophores to be included.
- g) Band pass fluorescent filters for DAPI, GFP, Cy3, CFP, YFP, RFP/mCherry and Cy5
- h) Motorized 6 position DIC nosepiece, Motorized Condenser NA 0.55 or better with modules for DIC, minimum 6 position fluorescence turret for accommodating fluorescent filters for sample visualization and camera-based imaging.
- i) High precision Z-focus drive with step size of 25 nm or better.
- j) Plan super apochromat objectives - 40x/1.40oil, 60/63x/1.40oil, 100x/1.40 oil immersion, and confocal compatible lenses for 10x/0.40, Long Distance 20X/0.40 (WD 8 mm or better), 20x/0.80.
- k) Automated shift free DIC accessories for all objectives.
- l) Setup for long term live cell imaging including Incubation system with Temperature, CO₂, humidity control. The parameters for Incubation system should be controlled by a software preferably with ability to record the temperature, CO₂ level, RH at periodic intervals of ~10 min or lesser.
- m) Full color cooled CCD camera, 2/3” Chip with minimum 1.4 million net effective pixel resolution controlled by the same confocal software for multichannel, z stack, time lapse wide field imaging for epifluorescence and DIC imaging. Pixel size 6.45 μm x 6.45 μm or better. Dark current : < 0.7 e/p/s ; Integration Time : 1 ms to 60 s or more.
- n) An active anti-vibration table with compressed air damping, bread board table top with M-6 threading for the complete microscope system.

B. Confocal imaging unit with high sensitivity detectors.

- a) Laser point scanning confocal system with 4 high sensitive spectral detectors. Detection unit should work in Intensity and Spectral mode.
- b) Detectors should be capable of simultaneous detection of minimum 4 fluorophores or more based on high sensitive GaAsP/HyD or equivalent detectors with QE 45% or more.
- c) The scanner should have real"ROI" scan capability for fast scan. Maximum scan resolution should be at least 4Kx4K or better per channel and should reduce to 64x64 resolution.
- d) Scan speed should be 8-12 fps or better @ 512x512.
- e) Transmitted PMT for laser based DIC imaging.

C. Laser modules with AOTF control. All solid state lasers only. Minimum requirements:

405 nm

488 nm

565 nm

590 nm and

633 nm (or equivalent).

All visible & UV lasers should be connected to the scan head and should be controlled for fast laser switching and attenuation. Real ROI scan for FRAP, PA/conversion experiments. Laser lines should be 20mW for better

D. System control and Imaging Software:

- a) Software should be capable of controlling every component of the system including microscope, confocal setup, super resolution module,. Should be compatible for 3D, 4D, 5D and 6D imaging (X,Y,Z,t,multicolor, multipoint). Image stitching in co-ordination with XYZ stage.
- b) Real ROI for FRAP, Photo-activation/conversion experiments.
- c) FRET imaging as well as Quantitative data analysis capability.
- d) Advanced 3D image reconstruction with rendering from a Z-stack image series including 3D Blind deconvolution capability in widefield, confocal and super resolution deconvolution modalities (for all the three PSFs)
- e) Co-localization and histogram analysis with individual parameters.
- f) Spectral un-mixing with fingerprinting for separation of overlapping excitation/emission spectra of fluorophores.
- g) Image acquisition and processing tools for SR, VP images with various modes of visualization tools.

E. Computer and Monitor:

- a) Suitable configured branded computer with licensed software's for acquisition and analysis of imaging samples.(State of the art 64-bit control computer with minimum Intel Xeon 6 Core Processor, DDR RAM 48 GB or more; primary HDD – 512 GB SSD or better; secondary HDD: 4 TB SATA upgradable to 8 TB or better, DVD, SuperMulti SATA +R/RW, Graphics: dedicated dual display with minimum 2 GB internal RAM, Gigabit Ethernet, Win 7 Ultimate 64 bit or better, USB 2.0/ 3.0, Fire wire. Large 30" LED monitor. OR equivalent for controlling the entire system)
- b) Suitable secondary analysis computer and complete analysis license package to be included.

F. Accessories, installation and Service Support:

- (a) 5-year warranty on complete system
- (b) Suitable vibration isolation table with silent automated compressor pump
- (c) Appropriate Online UPS system for the entire system with minimum 1 hour backup,
- (d) 100% CO2 Cylinders (2 nos) with regulators and automaticcylinder switching module

G. Optional:

- (a) Possible up gradation option for Super resolution imaging capability
- (b) On campus technical support for 2 years

The above mentioned technical specifications are highly desirable. However, lower technical specifications may be considered if the above mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into considerations its financial constraints and technical preferences.

H. Terms and Conditions:

- The Vendor should have a good track record of having previously supplied similar equipment in India (please furnish details)
- The vendor should have qualified technical service personnel for the equipment based close to Coimbatore to provide prompt service as and when required
- The payment will be through a Letter of Credit.
- The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of purchase order or 2 months from the date of receipt of Letter of Credit details (whichever is earlier)
- The validity period of the quotation should be 180 days

SIGNATURE OF THE TENDERER

ANNEXURE – I

TECHNICAL BID

Tender reference No: _____

1. Name and address of Bidder
2. The details of EMD
Amount of EMD Rs. _____, DD No. _____ dt

Bank: _____

3. Due Date of bid :
4. The bid shall remain valid for acceptance for 180 days, from the date of tender opening.
5. Schedule of Requirements:

Sl.No	Brief description of stores			Qty Required	Qty Offered	Delivery	Unit price (Rs)	Total Cost (Rs)
						At Bharathiar University Coimbatore	To be filled in Annex:II	
(i)	GST		%		-	-		
(ii)	Wararanty5years-							
(ii)	Other charges, if any				-	-		
Grand total cost in Rs.								
Total cost (in words) Rupees.								

Note: (1) All columns must be filled up.

(2) Adhering to the format given above is a pre- requisite for considering your bid.

(3) Please indicate applicability.

I/certify that I/We have completely read and understood and agree to all the terms & conditions given in Part II.

Date : Signature of Bidder :

Office Stamp Signing as :

Name in block letters :

:Mobile No.

Fax No.

e mail

PRICE BID

Tender reference No: _____

1. Name and address of Bidder
2. The details of EMD
Amount of EMD Rs. _____, DD No. _____ dt

Bank: _____

3. Due Date of bid :
4. The bid shall remain valid for acceptance for 180 days, from the date of tender opening.
5. Rates for items given in Techno-commercial offer at Schedule of requirements are as follows:

SlNo	Brief description of stores				Qty. Offered	Delivery	Unit price	Total Cost
						At Bharathiar University Coimbatore		
(i)	GST		%		-	-		
(ii)	Other charges, if any				-	-		
Grand total								
Total cost (in words) Rupees.								

NOTE :(1) All columns must be filled up.**(2) Adhering to the format given above is a pre- requisite for considering your bid.****(3) Please indicate applicability.**

Date : Signature of Bidder :

Office Stamp : Signing as :

Name in block letters :

Tele No. Fax No. e mail

LETTER OF ACCEPTANCE

To

**THE REGISTRAR
BHARATHIARUNIVERSITY
COIMBATORE – 641 046**

I/We agree to furnish required supplies /services as detailed in the Tender schedule or such portions thereof as you may specify in the Acceptance of Tender in accordance with the General Terms and Conditions governing the contract / supply order enclosed hereto duly accepted on receipt of the order for the same.

I /We agree to hold this offer open until and shall be bound to supply / omission /erect the equipment and dispatch the same within the specified period.

I/ We agree to supply and commission /erect the equipment and complete the whole of the work and hand over to the purchaser within the period of weeks. From the date of receipt of intimation from you regarding acceptance of this tender / receipt of supply order.

**Signature of the bidder
With office stamp**

Name & Address

Station

Date:

