भारतीय प्रौद्योगिकी संस्थान, गोवा
गोवा अभियांत्रिकी महाविद्यालय परिसर, फारमागुडी, फोण्डा - ४०३४०१, गोवा
Indian Institute of Technology Goa
Goa College of Engineering Campus, Farmagudi, Ponda - 403401, Goa

Date: 19/02/2021

INVITATION OF BIDS FOR LASER SCANNING CONFOCAL MICROSCOPE

ENQUIRY NO: IITGOA/2020-21/027 DTD 19/02/2021

1. Quotations are invited in two bid system for the procurement of Laser Scanning Confocal Microscope in separate envelopes. Please mention the above-mentioned title, enquiry number and due date for submission of bids on the sealed cover to avoid the bid being declared invalid.

2. The address and contact numbers for sending bids or seeking clarifications regarding this RFP are given below –

Assistant Registrar
(Stores & Purchase)
IIT GOA, At GEC Campus,
Farmagudi, Ponda – Goa.
403401
ar_sp@iitgoa.ac.in

3. This bid enquiry is divided into three parts as follows:

   a. Part I – Contains General Information such as the time, place of submission and opening of tenders, Validity period of tenders, etc.

   b. Part II – Contains Instructions for the Bidders and essential details of the items/services required, such as the Schedule of Requirements (SOR), Technical Specifications, Delivery Period, Place of Delivery and Consignee details.

   c. Part III – Contains Price Bid format, other details etc.

4. This bid enquiry is being issued with no financial commitment and the Institute reserves the right to change or vary any part thereof at any stage and to withdraw it at any stage.

Part I – General information

Tender No.		IITGOA/2020-21/027	
Tender Date		19.02.2021	
Tender Category		Goods	
Tender Type		Open	
No. of Envelopes		2	
Covers Information / Submission of Bids			
Cover No.	Cover Type	Description	Document Type
1	Technical	Technical Specification, Tender Document, Schedule of Requirement and Compliance, Bidders Information/Indian Agent Information, PAC, Declaration of Local Content etc.	.pdf
2	Financial	Financial Bid	.pdf

Two Bid System:
- ❖ The two-bid system will be followed for this tender. In this system bidder must submit their offer in separate sealed envelopes as – Technical Bid and Financial Bid.
- ❖ Separate technical bid and financial bid envelopes should be clearly marked as "Envelope No. 1 - Technical Bid" and "Envelope No. 2 - Financial Bid".
- ❖ Both these sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed with our Tender No. & Due Date and to be submitted to the concern department/section mentioned in tender document.
- ❖ Bids should be forwarded by Bidders under their original memo / letter head inter alia furnishing details like GST number, Bank Details etc. and complete postal & e-mail address of their office.

Note:
- The technical offer should not contain any price information. If the price quoted is submitted in technical bid the tender will be rejected at the sole discretion of IIT Goa.
- Initially Technical Bids will be opened and evaluated by the purchase committee. Financial Bid of only Technically qualified bidders will be opened later.
- Contract/ Purchase Order will be awarded to the lowest bidder(L1) of Financial Bid among them.

Form of Contract	Supply
Bid Validity (Days):	120 days
Period of Work/Delivery Period (Days):	45 days

Pre-Bid Meeting Date & Time:	Will be decided on request
Pre-Bid Meeting Place & Address:	N/A
Modification and Withdrawal of Bids:	A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarifications sought not later than 7 (Seven) days prior to the date of opening of the Bids. Copies of the query and clarification by the purchaser will be sent to all prospective bidders who have participated the bidding documents.
Clarification regarding contents of the tender document/RFP:	A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be sent by email but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security.
Rejection of bids:	Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected.
Unwillingness to quote:	Bidders unwilling to quote should ensure that intimation to this effect reaches before the due date and time of opening of the Bid, failing which the defaulting Bidder may be delisted for the given range of items as mentioned in this RFP.
Contract Type:	Tender
Delivery Location:	Indian Institute of Technology Goa Goa Engineering College Campus, BhausahebBandodkar Technical Education Complex, Veling, Farmagudi, Ponda, Goa
Pin Code:	403401
Bid Submission End Date/Date & Time Submission:	12.03.2021 at 17:00hrs
Place of Submission of Bid:	Stores & Purchase Department, IIT Goa, Admin Block, At GEC Campus, Farmagudi, Ponda, Goa-403401
Bid Opening Date & Time:	15.03.2021 at 15:00 hrs
Bid Opening Place:	IIT Goa, Admin Block, At GEC Campus, Farmagudi, Ponda, Goa-403401
Other Terms & Conditions:	As mentioned in technical specification

Technical Clarification:	Name:Dr. Sreenath Balakrishnan School of Mechanical Sciences IIT Goa Email: sreenath@iitgoa.ac.in
Tender Inviting Authority:	Name: Assistant Registrar (S&P) Address: Stores& Purchase Department, Email: ar_sp@iitgoa.ac.in IIT Goa, Admin Block, At GEC Campus, Farmagudi, Ponda, Goa - 403401
Signing Authority:	Assistant Registrar (S&P)

Part II: Instructions to Bidders

1. **Schedule of Requirements** – List of items are attached as **Annexure 'A'**

2. **Technical Details**: Technical details are attached in **Annexure 'B'**

3. **Two-Bid System:** In respect of Two-bid system, Bidders are required to furnish clause by clause compliance of specifications bringing out clearly the deviations from specification, if any.

i) The Bidders are advised to submit the following documents along with Technical Bid–

a) Compliance certificate in the following format;

Para of tender enquiry specification item-wise (As per annexure B)	Specification of Item offered	Compliance – whether YES/NO	In case of non-compliance, deviation to be specified in unambiguous terms

The offers must strictly be as per the specifications given in Annexure-A. At the same time, it must be kept in mind that mere copying of our specifications in the quotation shall not make the technical bid eligible for consideration. **A bid has to be supported with original catalogue (not of photo copy) of the quoted model duly signed by the OEM and the same must be sent along with the technical bid.** The quoted model should not become obsolete for a minimum period of 5 years (This is for the availability of spares). Therefore, the model quoted should invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance with above shall be treated as incomplete/ambiguous and the bid may be ignored without giving an opportunity to the bidder for further clarification/negotiation etc.

b) Bidders Information **(Annexure C).**

c) A copy of Indian Agent Agreement / Authorization letter from OEM / OEMs along with tender to be submitted by All Indian Agents, if the manufacturer/supplier is based in abroad.

d) GST and PAN details

e) The Bidder should provide a list of customers of previous supply of a similar/ same range of equipment to IIT's/ NIT's/Universities with contact details.

f) It is mandatory for bidders to quote items having Local Content more than 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. II dated 04.06.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. **(Annexure F)**

ii) The following documents should be submitted along with Financial Bid–

a)Price Bid. **(Annexure D)**

b)Previous order of supplies/Justification of quoted rates. **(Annexure E)**

4. **Delivery Period** – supply to be made within **45 days** from the effective date of issuance of Purchase Order. Please note that P.O. can be cancelled unilaterally by the Institute in case items are not received within the delivery period. Extension of delivery period will be at the sole discretion of the Institute, with applicability of LD clause.

5. **Delivery and Transportation** - Place for supply / installation is **'Indian Institute of Technology Goa, Ponda – Goa'.** The transportation cost & Insurance charges up to the destination is to be borne by the bidder.

Part III: Conditions of Contract

1. Award of Contract:
   i. IIT Goa shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated financial bid.
   ii. If more than one BIDDER happens to quote the same lowest price, IIT Goa reserves the right to award the contract to more than one BIDDER or any BIDDER.

2. Prices:

   a) It is mandatory to quote prices in INR – F.O.R., IIT Goa basis only.
   b) In case of Multiple options of the same product, bidders are requested to quote only one best option and not multiple options.
   c) The supplier shall pay and bear all other liabilities, taxes and duties not specifically agreed by the Purchaser in the contract.

3. Pre-installation:
   i. Please also mention the pre-installation requirements for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When items are provided full performance satisfaction should be demonstrated.

4. Installation:
   i. Supplier shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty period and thereafter as mentioned in the contract.
   ii. Installation / demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

5. Training:
   i. The supplier shall submit training proposal for the operation and maintenance to the personnel of IIT Goa on the offered equipment/machinery.
   ii. Wherever needed, our technical persons should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

6. Terms of Payment:
   i. 100% within30 days after the successful delivery and installation of items at IIT Goa

7. Legal Matter:
   i. All disputes are subject to Goa jurisdiction only.

8. Rights to Accept, Reject, Amend, Modify:
   i. The basic eligibility conditions and conditions of contract are broad guidelines for pre-qualification and the Director, IIT Goa hereby reserves the right to relax / alter / modify / add/delete any or all the conditions without notice.

9. Rights to Accept, Reject Bids:
   i. The Director, IIT Goa reserves the right to accept or reject any or all bids without assigning any reason in public interest.

10. Penalty/ Liquidated Damages:
    i. Timely delivery is essence of the contract and hence if any consignment be delayed, liquidated damages at the rate 0.5% of the price of the delayed consignment, for each week or part whereof shall be levied and recovered subject to maximum of 10% of total purchase order value.
    ii. IIT Goa reserves the right to cancel the order in case the delay is more than 6 weeks. Penalties if any will be recovered by forfeiting PBG at vendor's cost and risks.

11. Supervision of Erection and Commissioning:

i. Successful BIDDER shall depute concerned specialist, for supervision of erection & commissioning of the machine to be carried out. The successful BIDDER shall make necessary arrangement at their own expenses for stay, transport and other expenses of their Specialist during their stay in Goa which also includes imparting free of cost training to IIT Goa personnel.

12. **Performance Guarantee (GFR 2017 Rule 171):**

i. Performance Guarantee Bond is mandatory.
ii. Successful tenderer/ bidder should submit performance guarantee as prescribed above to be sent to The Assistant Registrar, Stores & Purchase Department, IIT Goa on or before 15 days from the due date of issue of order acknowledgement. The PBG to be furnished in the form of bank guarantee as per proforma or annexure of the tender documents, for an amount covering 3 % of the purchase order value.
iii. The Performance Guarantee should be established in favour of "The Registrar, IIT Goa".
iv. PBG to be established through any of the National Banks (whether situated at Goa or outstation) with a clause to enforced the same on their local branch of Goa or any scheduled bank (other than national bank) situated at Goa. Bonds issued by co-operative banks will not be accepted.
v. Performance Guarantee Bond shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful tenderer and the purchaser under the terms & conditions of acceptance to the tender.
vi. The successful tenderer is entirely responsible for due performance of the contract in letter and spirit and all other documents referred to in the acceptance of tenders.
vii. The PBG shall be kept valid during the period of contract and shall continue to be enforceable for a period of one year/two years (as mentioned in the tender document) or up to warranty period, plus 60 days whichever is later from the date of order acknowledge. In case PBG needs extensions up to warranty period then supplier shall initiate extensions to PBG one month prior to expiry of PBG.
viii. For successful suppliers, if PBG is not submitted within 15 days from the date of Order Acknowledgement, then the Purchase Order will be cancelled with forfeiting of EMD.
ix. <u>No interest shall be payable by the buyer to the Bidder on PBG.</u>

Annexure - A

List of items required

Sl. No.	Description of Items	Qty
1	**Laser Scanning Confocal Microscope**	01

Annexure – B

Specifications for spectral confocal microscope

Fully motorised inverted microscope based confocal microscope for high resolutions imaging applications with 3D FRET, FRAP, Photo activation applications with the below specifications.

MICROSCOPE

FRAME: Fully motorised rugged microscope body with a built Z motor with minimum 10nm or lower step size. The motorised nosepiece should accommodate at least 6 objectives with an easy drainage facility to avoid cell culture dish leakage the optics. All the microscope conditions should be displayed on the microscope body with LED display. The system should have left side port for camera. A remote LCD touch screen panel to avoid minor vibrations during acquisition. Control of all the motorised functions includes the XY motorised stage achieved through LCD Panel. The light path selection should be 100/0, 0/100.

TRANSMITTED LIGHT: Fully motorised inverted fluorescence microscope with 12V 100W halogen lamp/ or bright LED for DIC and BF applications.

EYEPIECES: A tiltable binocular observation tube with two 10X eyepieces with a minimum 22 FN or better.

CONDENSER: A motorised 6-7 position long working distance condenser with dedicated slots for DIC prisms for 10X, 20X, 40x 60X Objectives. It should have a motorised polariser in the DIC optical path.

XY STAGE: High Precision Motorised encode scanning XY stage with holders for 35 mm live cell dish, 96 Well plate, glass slides and culture flasks. The microscope stand & XY stage should accommodate IR Laser based Drift compensator and on-stage incubator for future upgradation. The XY motorised stage should be completely controlled by imaging software and the touch screen panel. The touch screen panel should be able to precisely lock XY coordinates of the sample positions under lower magnifications and move to the same coordinates/cells at all higher magnifications. Appropriate software module for multi-point, multi well and mosaic imaging should be quoted.

OBJECTIVES: Confocal Grade Plan Apochromatic objectives with 10X 0.40 or better, 20X 0.75 or better 40X 0.95 or better, 60X 1.40 or better. Objectives with 10X to 60X magnifications should have DIC components.

FLUORESCENCE: A 2000 Hrs or higher life time, 120/130 W Hg or metal halide lamp with built in attenuator and shutter should be provided. The mortised fluorescence filter cube turret should have slots accommodate DAPI, GFP, RFP/DsRed, filters at a time. It should also accommodate a motorised analyser.

CONFOCAL:

A dedicated high resolution high speed live cell confocal microscope with the following specs should be quoted.

LASERS AND COMBINER: All the laser should be stable diode/solid state laser controlled by AOTF for precise switching and swift selection of the desired laser lines. The AOTF controlled laser combiner should have solid state lasers 405nm , 488nm, 561nm, and 640nm All the lasers should be stable solid state. The combiner should be upgradable upto 7 lasers. Optionally quote for solid state 594 nm laser with a minimum power of 20 mW or more.

SCANNER: XV galvanometer mirrors with minimum reflectance of 90% throughout the visible spectrum (400-800nm). The scanning resolution of 64x64 to 4096x4096 with a scanning speed of upto 10-12 FPS (with a FOV 9 or better)frames per second at 512x512 resolutions to be achieved. Higher frame rates of 35-40 FPS with ROI Scanning should be available. Scanner should be capable of imaging scanning zoom of 1-50 times. The scan rotation should be 360degree with an ability scan in various modes such as rectangle, clip, polygon, free area, line, free line, point circular or tornado scan and Scanning Modes of PT(point), XT, XZ, XY, XZT, XYT, XYZ, XYλ, XYZT, XYλT, XYλZ, XYλZT. The

DETECTORS:

The detector should be built inside the scan head directly coupled scanner to avoid any signal loss and enhance the sensitivity. The system should have at least two independent spectral detectors with independent Gain offset and voltage modules. **The spectral separation should be performed using one or more of the following system. A. Pellin Broca Prism, B. Holographic transmission diffraction grating or C. reflection diffraction grating. The spectral Spectral band selection should be through slit/knife edge or prim (by changing the position and width/separation of the sit or knife edge/prism wedge. The spectral selection and control should be possible from both ends of the central wavelength independently for all channels.** The spectral resolution should at least be 2-3 nm throughout the spectral range. The system should be upgradable to two additional high sensitive GaAsP/HyD spectral detectors (2-3nm) with a minimum QE of 45% or better. The detectors should have a spectral detection rage from 400-800 nm. The system should on site be upgradable to FCS/FCCS/FLIM in future.

SOFTWARE:

The imaging software should control all the motorised functions of the confocal microscope. It should have the capability of multi-dimensional acquisition namely PT (point), XT, XZ, XY, XZT, XYT, XYZ, XYλ, XYZT, XYλT, XYλZ, XYλZT, 3D Construction over time. Real time/online Spectral images and unmixing. Multi point, Multi Well imaging. Software features such as image stitching/auto montage; FRET (Ratio, acceptor photobleaching and Sensitised emission) Micro to Macro imaging capabilities, Calcium imaging, deep tissue imaging should colocalaisation analysis, High dynamic range imaging, 2D deconvolution be included.

The software should have analysis function such as intensity measurement (online & offline) over time, over depth and over lambda. Automated object count and measurements, 2D deconvolution.

Quote for a suitable factory recommended branded PC and 32inch monitor 2TB Storage, 64 GB RAM, 2GB VRAM Graphics card 512 GB SSD.64 Bit Windows

(To be printed on letterhead of the bidder)

Annexure - C

Bidders Information

1.	Name of the Bidder	
2.	Address of the Bidder	
3.	PAN No.	
4.	GSTN No.	
5.	State of GST Registration	
6.	E-mail	
7.	Contact Person's Name & Designation	
8.	Mobile No.	

(To be printed on letterhead of the bidder)

Annexure - D

PRICE BID FORMAT

S.No.	Item description & short specification	HSN Code/SAC Code	Qty in Units	GST %	Price Basis	Total Bid Price
1.	**Laser Scanning Confocal Microscope**					
2.	**Installation and Commissioning Charges** (if any, quote in INR)					
3.	**Agency Commission** (if any, quote in %)					
4.	Other Charges (if any, please specify)					
Grand Total						

#HSN Code: "Harmonized System of Nomenclature Code No." and SAC Code: "Service Accounting Codes Code No."

1. Delivery Mode: Delivery at IIT Goa, at site only.
2. Terms of payment: 100% payment within 30 days after the successful delivery and installation of the item at IIT Goa.
3. Validity of the bid: 120 days from the date of submission of quotation/tender.

Signature.....
Name .....
Place: Company Name & Address: .....

Date: Affix Rubber Stamp: .....

Note: Price Bid should be submitted in given format only. For additional information/extra items above format may be typed and used.

Annexure-E

Reasonability of Prices

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of at least two purchase orders identical or similar equipment, supplied to any IITS/Research Institutions/ other organisation as per below Format (to be enclosed in Financial Bid) along with the final price paid and details are mandatory.

Previous Supply Orders

Name of the Firm _____

S.No.	PO No. & Date	Description & Quantity of ordered equipment	Value of Order	Date of completion of delivery as per contract	Remarks indicating reasons for late delivery, if any and justification of price difference of their supply order & those quoted to us	Has the equipment being installed satisfactorily (attach a certificate from the Purchaser/ Consigner)	Contact Person along with Telephone no., Fax No. and e-mail address

Place: _____

Date: _____ Signature and Seal of the Manufacturer / Bidder

Annexure - F

DECLARATION OF LOCAL CONTENT

(To be given on company letter head - For tender value below Rs.10 crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 crores)

Date: _____

To,
The Registrar,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda - Goa

Sub: Declaration of Local content

Tender Reference No:_____

Name of Tender: - _____

Country of Origin of Goods being offered: _____
We hereby declare that an item offered has % local content. _____

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."

Yours faithfully,
(Signature of the Bidder, with Official Seal)

FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THENATIONAL BANKS (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA OR ANY SCHEDULED BANK SITUATED AT GOA. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.

To,
The Registrar,
Indian Institute of Technology, Goa
Farmagudi, Ponda,
Goa – 403401

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology, Goa (Buyer) have invited Tenders vide Tender No..... Dt. ..... for purchase of .....
AND
WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **"Registrar, Indian Institute of Technology, Goa"** in the form of Bank Guarantee for Rs ..... (**3% (three percent) of the purchase value**) and valid till **one year or up to warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of Order Acknowledgment as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology, Goa on demand and without protest or demur Rs..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology, Goa (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ... (name of the Bank & branch) hereby further agree that theGuarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology, Goa(Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs. ..... . (Indian Rupees ..... only).
2. This Bank Guarantee shall be valid up to .....(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Goa serve upon us a written claim or demand on or before .....(date).
4. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Date:

Yours truly,
Signature and seal of the Guarantor:

Name of Bank:

Instruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. Bank isrequested to take appropriate necessary action on or after expiry of bond period.