

Date: 16-12-2016

**Notice Inviting Tender cum Tender Document
(Two Part Public Tender) for the following items:**

Supply, Installation and Commissioning of Live Cell Imaging Microscope at TIFR-TCIS Hyderabad.

(As per Technical Specifications)- Qty. - 1No

Public Tender No.	TFR/PD/F-577/IC16-42/160343
Published on	16-12-2016
Tender Fees	For Indian Supplier- Rs.700/- For Foreign Supplier-USD 100/-
EMD Amount	For Indian Supplier - Rs. 1,90,000/- (Rupees One Lakh Ninety Thousand Only) For Foreign Supplier - USD 2795
Type of Tender	Two Part Public Tender
Last Date for Submission of Bid	24-01-2017 upto 13.00 Hrs.
Date of Opening Bids (Part A)	24-01-2017 at 15.00 Hrs.

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

Administrative Officer

SCOPE OF SUPPLY - ANNEXURE A**Technical specifications for Live Cell Imaging Microscope.****Specifications:**

Equipment: Fully motorized inverted modular research microscope for bright field, phase contrast, fluorescence, and FRET (förster resonance energy transfer) imaging of live cells with camera and FRAP (fluorescence recovery after photo bleaching) attachment.

Specifications:

1. Microscope stand: Microscope stand should include

- motorized focus drive (course and fine) in Z-direction with 8 mm or more travel range and 10 nm or better step size,
- motorized XY-stage with precisely plane-parallel arrangement,
- XYZ-controlling joystick,
- linear-scaled fine and course focus,
- course and fine motorized focus knobs on at least one side of microscope,
- specimen holders for glass slides, petri-dishes, and multiwell plates,
- motorized transmitted light illumination arm with field diaphragm and with tilting mechanism for access to specimen holder,
- motorized condenser with free-working distance up to 15 mm or more with 6 or more positions or disks to accommodate phase rings (bright field, ph1, ph2, ph3 etc.),
- motorized 6 or more position fluorescence turret,
- wide-field adjustable eyepiece pair with eyecups,
- motorized nosepiece objective turret with 5 positions or more,
- multiple ports for camera with 0 to 100% transmission
- transmitted light bright field, transmitted light phase contrast, and reflected light fluorescence contrasting techniques
- touch screen control of basic microscope functions and contrasting techniques with display of status
- dust cover

2. Transmitted light illumination system: It should include

- Either 15W or better white light LED lamp-housing
- or 12V 100W Halogen light source with spare bulbs, filter changer, day-light and neutral density filters
- light source with 20ms or faster shutter.
- required cable connections, if any
- The unit should be controllable through stand-attached buttons or panel (in case of touch screen) as well as through the imaging software.

3. Reflected light illumination system for fluorescence:

It should include

- Either LED illuminator with 10,000 hours or more life-time with multiple wavelengths (7 or more) within the minimum range of 385–625nm, which enables imaging at least DAPI, FITC, YFP, mCherry, and Cy5.
- or metal halide illuminator with 3 or more spare bulbs (less preferred option)
- necessary light guide, cable connections, adaptors, and shutter
- The unit should be controllable through stand-attached buttons or panel (in case of touch screen co) as well as through the imaging software.
- Filter cubes for DAPI, GFP or FITC, mCherry or Rhodamine, CFP, YFP, CFP/YFP FRET

4. Objectives:

- 10x, 20x, 40x oil and 63x oil high quality objectives
- 10x and 20x with phase contrast (e.g. Ph1)
- 20x with correction collar
- Immersion liquid or oil
- Objectives should be controllable through stand-attached buttons or panel (in case of touch screen co) as well as through the imaging software.

5. Camera: High speed, high performance digital camera (monochrome or dual, CCD or sCMOS) minimum 2.5 MP monochrome and color resolution, pixel square size of 4.40 μm X 4.40 μm or larger, regulated absolute cooling, minimum 20 fps at full resolution at binning factor 1, with trigger control and necessary cable for fast controlled imaging and mount adaptor.

6. Imaging software with XYZ-T-lambda functionality:

It should include

- Multichannel acquisition: 6 or more channels with different contrasting techniques and acquisition parameters
 - Time lapse function with defined time steps, minimum time steps, defined duration, defined number of images
 - Z-stacking with various project modes
 - Module for marking positions, stitching, and tiling
 - Module or add-on for FRAP module
- License for the software should be valid for five years or more.

7. FRAP module for FRAP and opto genetic manipulation: It should include

- one or more laser source within the range of 400-450 nm
- laser safety switches
- possibility for using variable shape illumination
- possibility for simultaneous FRAP/activation and imaging through light path sharing.

The module should be controlled either through the imaging software or through synchronized add-on, and it should be usable with all of the afore mentioned objectives.

8. Stage incubator for live cell imaging:

It should include

- Microscope stage-compatible heatable incubation insert with spring clips (to provide for a firm fit of the petri dishes), preferably with a slidable cover
- Temperature controller (30-40°C; 37°C for most applications)
- CO₂ -Controller for 5% pre-mixed CO₂ input into the aforementioned insert
- Humidifier placed in the CO₂ path, preferably with a heating arrangement

Temperature and CO₂ percentage going into the stage incubator should be controlled and configured either through the afore mentioned imaging software or through a separate controller

9. High speed PC workstation:

It should include

- Windows 7 or 10 or Mac operating system OS X Yosemite onwards
- Processor with base frequency of 2.30 GHz
- RAM with 8 GB or more capacity
- High performance GPU
- Hard drive with 1 TB or more data storage capacity
- DVDRW
- USB port for data transfer
- 25 inch or larger LED or LCD monitor
- Keyboard and mouse
- Power cords and adaptors

Additional Clauses:**Warranty and Service:**

- The Instrument should be provided with comprehensive warranty for one or more years from the date of Installation.
- The warranty should include regular maintenance, parts, labor, and software updates and should cover at least the first year.
- The maintenance costs for the entire system after the warranty period should be stated.
- **Training:** It is desirable that periodic training/demonstration classes at least once in the beginning and annually afterwards for new users are conducted.

Optional Items/Accessories:

The optional Accessories will not be considered for evaluation of lowest bidder. The Optional items may be procured based on requirement from the techno commercially qualified lowest bidder.

Installation:

The supplier shall do the instrument installation site investigation prior to the installation, and further install and commission the system immediately after delivery. System installation shall be carried out by factory trained engineers. Training on the operation of the system by experienced and qualified engineer must be provided on-site.

Relocation of the equipment:

Dismantling of equipment, Shifting/transportation of material from TCIS transit campus to TCIS, FReTB new campus, Reinstallation, calibration of equipment and successful commissioning is supplier's scope if any. However a separate quote for this relocation may be provided along with the financial bid with the minimum validity period of one year extendable further if required from the date of installation of the instrument. This quote will not be considered for evaluation of lowest bidder.



TATA INSTITUTE OF FUNDAMENTAL RESEARCH

(Autonomous Institution of the Department of Atomic Energy, Government of India)

TIFR Centre for Interdisciplinary Sciences

21, Brundavan Colony, Gandipet Road, CBIT Post Office, Hyderabad-500 075

Phone: 040-2419 5027, Email: purchase@tifrh.res.in

Supply Order Details of Live Cell Imaging Microscope **with accessories to Other Firms**

Annexure - B

S.No.	Name of the company with full address	Name of the Project	Purchase Order No. & Date	Brief Item Description with Model No.	Item Value in Currency
	Signature				
	Name				
	Designation				
	Name of the Company				
	Date				
	Seal of the Company				

Audited Annual Turnover**Annexure - C**

S.No.	Financial/ Accounting Year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (in INR)
1.	2015-2016			
2.	2014-2015			
3.	2013-2014			

Authorized Signatory with Seal

Note:

This Annexure - C should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on the letterhead.

The right to suspend the NIQ process or part of the process, accept or reject any or all NIQ at any stage of the process and/or to modify the process or any part thereof anytime without assigning any reasons thereto is reserved by TIFR-TCIS without any obligation or liability whatsoever.



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Financial Bid for Live Cell Imaging Microscope

Annexure - D

TIFR- TCIS Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Financial Bid (Part B) Format

All the Bidders should quote their offer in the following format for uniformity.

D) Import Supply:

S.No.	Item Description as per tender	Make/Brand/ Type	Qty.	Basic Cost per Unit of Main Item (Currency)	Total Amount (Currency)
A.					
B.	Ex-Works cost (Duly packed of Airworthy/Seaworthy international standard)				
C.	FOB /FCA Cost (Name of Airport_____)				
D.	CIP/CIF Cost (Upto Hyderabad Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				

Note:

1. All the column should be appropriately filled and not left blank
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item,
3. All optional items & AMC should be shown separately.
4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like Excise, VAT, service Tax, Freight & Transportation charges and installation charges etc.
6. TIFR-TCIS being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address contact no -----

& email id of the bidder/ -----

Company with company's Stamp or Seal-----

Date: -----

Place: -----

TERMS AND CONDITIONS

1. PART “A” (Technical Bid) consisting of Technical Bid and Commercial Terms and PART “B” (Financial Bid) consisting of only Price shall be submitted in separate sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, 21, Brundavan Colony, Narsingi, Gandipet Road, Hyderabad-500 075.

The envelopes should be clearly marked on top as either PART “A” or PART “B”. The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, 21, Brundavan Colony, Narsingi, Gandipet Road, Hyderabad - 500 075. The sealed master envelop has to be delivered by hand/courier in the Tender Box in the security Gate Office of TIFR-TCIS, Hyderabad (address mentioned above) on or before 13.00 hrs. on the due date specified. The technical bid will be opened in the presence of attending tenderers at 15.00 hrs. on the due date at Administration Section, TIFR-TCIS, Hyderabad. Tenders submitted after 13.00 hrs. on due date will not be considered.

2. In case the PART “A” and Part “B” bids are not sealed in separate envelopes the tender will be rejected.

3. The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of dispatch, the quantum and percentage of statutory levies payable by purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.

4. After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical, commercial basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.

5. Tender Document Fee:

a) For Indian Supplier: Tender fee for Rs. 700/- (Non-refundable) in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A).

b) For Foreign Supplier: Tender fee of USD 100 (Non-refundable) in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).

6. EMD:

a) For Indian Supplier: Earnest Money (EMD) for Rs. 1,90,000/- (Rupees One Lakh Ninety Thousand Only) in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed along with the technical Bid (Part - A).

b) For Foreign Supplier: Earnest Money (EMD) for USD 2795- in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A). EMD shall be interest free and it will be refunded to the unsuccessful bidder without any interest. EMD will be forfeited if the bidder withdraws or amend impairs or derogates from the tender in any respect.

7. Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past their bids will not be considered and treated as ineligible / disqualified.

8. Quotations must be valid for a period of 180 days from the due date.

9. Rates offered should be mentioned both in figures as well as in words and offer should be typed or legibly handwritten. Over writing is not acceptable.

10. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.

11. Tenderer should sign on all the pages of the technical bid and the price bid. Each page of tender document should be signed by the tenderers with rubber stamp of the firm affixed on each page.

12. The price quoted for Import item must be on following basis:

- Ex-Work/factory duly packed airworthy/seaworthy and of international standard
- FOB/FCA
- CIF/CIP Hyderabad, Airport Port (all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.) For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR TCIS, Hyderabad).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly the mode of shipment will be decided by TIFR TCIS.

13. If equipment offered is to be imported, arrangements for import will be made by us.

14. Tenders who do not comply with any of the condition are liable to be rejected.

15. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.

16. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.

17. PAYMENT TERMS:

Import Item: 80% payment will be released through irrevocable Letter of Credit on presentation of complete and clear dispatch documents, material receipt and balance 20% of the amount shall be released through irrevocable Letter of Credit after the receipt of material installation, successful commissioning, calibration and acceptance of the equipment by TCIS authorized person(s) through all relevant documents with Performance Bank Guarantee to be valid beyond 60days completion of all contractual obligations of the supplier including warranty period from the date of successful installation. However Letter of Credit arrangement will be made for 100% order value.

Indigenous Item: 80% of order value will be released on receipt of material at TIFR-TCIS Hyderabad, balance 20% shall be released after installation, successful commissioning and acceptance of equipment by its authorized person(s) through all relevant documents with Performance Bank Guarantee to be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period from the date of successful installation.

18. For Import cases: No Agency commission will be paid as per Govt. of India rules. All bank charges outside India to supplier's account only.

19. Performance Security: The Successful bidders should deposit @ 10% of Purchase Order value as Performance Security within 2 weeks from the date of issue of order/contract. The performance security shall be in one of the following form. Demand Draft/Banker "cheque in favour of "TIFR Centre for Interdisciplinary Sciences, Hyderabad" payable at Hyderabad.

(Or)

Bank guarantee issued from State Bank of India & Associates (or) any one of the Nationalized Banks valid for 60 days beyond the date of completion of all contractual obligations of the Supplier including warranty period. Performance Security shall be forfeited if bidder fails to execute the order as per terms of

contract/purchase order. If Performance Security is not paid within the specified time, TIFR TCIS reserves its right to cancel the order.

The Performance Security will be returned back to the successful supplier on receipt of the Performance Bank Guarantee (or) The 10% Performance Security Deposit in the form of Bank Guarantee which is mentioned above may be extended as Performance Bank Guarantee valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

Performance Bank Guarantee: Performance Bank Guarantee for 10% of the value of supply should be provided and it should be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Performance Bank Guarantee should be from State Bank of India & Associates (or) any one of the Nationalized Banks. In case Performance Bank Guarantee is not provided, 90% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

20.TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.

21.**SALES TAX:** TIFR does not have any exemption/concession on payment of Sales Tax/VAT and we are not authorized to issue any Sales Tax Form 'C' & 'D'

22.The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty.

a. In case of delay in supply on part of the supplier (i.e.) fail to deliver the system/component within the time specified, the purchaser shall recover a

penalty from the bidder/firm as liquidated damages @ 0.5% of order value per week will be charged for delayed period subject to a maximum of @10% of order value.

b. If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR-TCIS, Hyderabad shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.

c. The same rate of penalty shall be applicable for late installation of the equipment/instrument also.

23. The delivery period should be specifically stated and earlier delivery may be preferred.

24. **COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.

25. **ANNUAL MAINTENANCE CHARGES:** The bidder shall quote the rate/amount of annual maintenance charges separately, however AMC shall be an optional, TIFR-TCIS may or may not opt for it.

26. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.

27. **OBSERVANCE OF LOCAL LAWS:** Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary



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permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable on account of any the operations connected with the execution of this work/ contract.

28. In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR TCIS shall be final and binding on the bidder.

29. It is the responsibility of the supplier/bidder to make sure that the system being proposed can be exported to India with TIFR TCIS as the end user. All clarificatory documentation must be submitted with the Bid.

30. TIFR TCIS reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR-TCIS, Hyderabad may be checked at TIFR-TCIS website:

<http://www.tifrh.res.in/index.php/commercial-tenders>

31. Delivery Address:

TIFR Centre for Interdisciplinary Sciences, 21, Brundavan Colony, Gandipet Road, CBIT Post Office, Hyderabad-500 075, Phone: 040-2419 5027.

ADMINISTRATIVE OFFICER