

Fax: 080-26571563/26564830/2121/6811 Website: www.nimhans.ac.in/tender

E-ProcurementGlobal Tender No.STR-D1/NIMHANS/2019-20/IND570

D:14.01.2020

GLOBAL TENDER NOTIFICATION (Through e-procurement portal only)

The Director, NIMHANS invites tender from eligible tenderers through the Karnataka Government E-Procurement portal for supply of following equipment.

Sl. No.	Name of the Item	Quantity (in Nos.)	EMD (in ₹)
1.	Automated Laser Scanning Confocal Microscope	01	5,00,000/-

Tender Schedule

Downloading of Tender documents from website - https://eproc.karnataka.gov.in/eportal/index.seam	From 14.01.2020 onwards
Last date for tender enquiry	24.01.2020upto 11:00 AM
Tender submission last date and time	14.02.2020upto 11:00 AM
Technical bid will be opened online by the authorized officer on	15.02.2020 at 11:00 AM

Sd/-, Director

TENDER DOCUMENT

Terms and conditions

- 1. The bid documents should be uploaded in E Procurement portal only on or before the due date.
- 2. The tender bid should be valid for **four months** from the due date. **NIMHANS**, **Bengaluru will not take any responsibility for any technical issues.**
- 3. Earnest Money Deposit (EMD):
 - **3.1.** The (EMD) shall be denominated in Indian Rupees and shall be paid in the e-procurement portal using the following payment modes:
 - a. Credit Card.
 - b. Direct Debit.
 - **c.** Net Banking
 - **d.** National Electronic Funds Transfer (NEFT)
 - **3.2.** The EMD shall not bear any interest and will be refunded to
 - **a.** successful tenderer on receipt of Agreement and Bank Guarantee.
 - **b.** unsuccessful tenderer upon finalization of tender bid and award of tender to successful bidder.
 - **c.** all the tenderers if the tendered item is cancelled or retendered.
- **4.** The tender documents and all correspondence's relating to the bid should be in **English language** only.



NATIONAL INSTITUTE OF MENTAL HEALTH & NEURO SCIENCES

(Institute of National Importance), P.B. No. 2900, Hosur Road, Bengaluru – 560 029 Ph: 26995024/5913/5923 E-mail: aaos@nimhans.ac.in

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D:14.01.2020

- 5. Technical bid should comprise of (uploaded copy of documents should be self-attested and stamped) -
 - **5.1** Brochure/Catalogue and Data sheet of the equipment.
 - **5.2** Proprietary certificate from the manufacturer mentioning the unique technology or feature/s mentioned apart from the brand name (If applicable).
 - **5.3** Pre requirements required at the installation site (Before submitting the bid, the tenderer should make pre-visit to the installation site and indicate the requirement along with the price bid wherever necessary)
 - **5.4** Delivery Period of the item to be supplied and Time required for installation from the date of purchase order has to be indicated.
 - **5.5** List of Institutes where the equipment has been supplied.
 - 5.6 Copy of GST, PAN, TIN document
 - **5.7** Whether tenderer is manufacturer / accredited agent / sole representative, indicate details of principal's name & address. The offers of tenderer who are not manufacturer or direct authorized agent will be summarily rejected. Sub- distributors will not be accepted.
 - **5.8** Non-black-listing certification that the firm has not been blacklisted in the past by any government/Private institution and certification for No Vigilance/CBI case pending against the firm/supplier by making an affidavit on non judicial stamp paper of ₹10/-.
 - **5.9** Declaration towards acceptance of all terms and conditions should also be provided.
 - **5.10**Technical Compliance Sheet to be uploaded by the supplier.

6. Price Bid should comprise of-

- 6.1. Quotation should be only for DAP i.e., NIMHANS DOOR DELIVERY PRICE and should have detailed information as per tendered specifications (such as main equipment cost, each article wise/spares rates, taxes, other Government levies, Customs duty, any local agency commission, transportation, delivery of the equipment to the Institute premises, installation and commissioning etc. Separately along with total cost) with manufacturers name, License number and name of the brand/make. Tender bids without price bid/quotation will be rejected. Detailed breakup of the cost should be provided under" Action Column" by clicking the "%" symbol which will be mentioned as Added Statutory Components.
 - a) In case of Import, Customs Duty will be considered only at 5.5% of the total Purchase order value and the required Customs clearance documents will be provided by NIMHANS on prior intimation (atleast 7 working days prior intimation) of shipment along with details and relevant documents by the supplier.
 - b) If the tenderer is quoting in Indian Rupees (INR) for items NOT MANUFACTURING IN INDIA (NMIC), the CUSTOM DUTY EXEMPTION CERTIFICATE WILL NOT BE ISSUED BY THE INSTITUTE. The Rate quoted should be inclusive of Custom duty & other incidental charges.



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- **6.2.** Exchange rates for Foreign Currency will be considered as per the closing value on previous working day from website https://rbi.org.in/scripts/ReferenceRateArchive.aspx (only for GBP, EURO, USD & JPY) and for other currencies as per the decision of the Institute.
- 7. Successful tenderer decision will be made on the basis of total cost quoted as per clause 6.1
- **8.** The tender bids (technical and price bid) should be typewritten; every correction in the tender should be initialed along with seal by the tenderer, failing which the tender will be rejected. All pages of the bid submitted must be signed along with seal and sequentially numbered by the tenderer.

9. Evaluation of Bids:-

The technical bid of the tenderer will be evaluated to determine whether

- **a.** They are complete with respect to specifications.
- **b.** They are free from computational errors.
- **c.** The requisite documents have been submitted and properly signed.

10. Tender Opening:

- **a.** The Technical bids will be unlocked through E procurement portal in the Committee Room, Adjacent to the Registrar Chamber, NIMHANS, Bengaluru on the date specified in presence of tenderers or their representatives who choose to attend. The Tenderers' or representatives who are present shall submit authorization letter along with copy of Photo Id proof and shall sign a register evidencing their attendance.
- **b.** The Financial bid of the technically qualified tenderer's only will be opened on a notified date. NIMHANS will inform all the Technically Qualified Tenderers through e-tendering system, after decryption of their Financial bid which could be viewed automatically by the respective technically qualified tenderer's. In this regard no separate intimation shall be made by the Purchaser.
- 11. Equipment and its accessories should be covered with minimum warranty period of 05years for normal or regular wear & tear from the date of complete installation (Ready to use in all respects). In case of software's, the validity of the license key should be clearly mentioned and should have user define provision with option to switch over from one system to other system of the same kind within the validity period.

12. Software Updates:

The selected firm for the supply of tendered item should provide free updates of software up to 05 years from the date of complete installation.

- **13.** Supply of spares should be guaranteed for a minimum period of 10 years from the date of supply or from the date of cessation of production of the model for 10 years, whichever is later, at the rates prevailing against payment.
- **14.** Any modification or revision of bids after submission will not be entertained under any circumstances. Conditions such as "subject to the availability of stocks", supplies will be made



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as and when supplies received from the principles etc., will not be considered under any circumstances.

- **15.** A tenderer having once given a tender bid shall not withdraw it after its acceptance/opening and if does, the EMD paid by the tenderer will be forfeited and the tenderer is liable to make good the loss sustained.
- **16.** If required, the tenderer should demonstrate the quoted model of the equipment at the institute during the technical evaluation, failing which their bid/offer shall be rejected. The tenderer will be intimated that they should get ready for demonstration. No request for extending time for demonstration will be entertained. Failure to demonstrate, their offer will be rejected.
- **17.** The tenderer should supply the circuit diagram and instruction manual of the tendered equipment/s at the time of supply of the equipment.
- **18.** Necessary training / instructions on operation of the system should be given by the qualified engineers of the tenderer firm to NIMHANS technical staff/sat free of cost after completion of the installation.
- 19. The successful tenderer should immediately submit an acceptance letter duly signed and sealed for the rate/s and offers agreed by both the parties to the Head of the Institution within reasonable time on receipt of the Purchase Order (Agreement Specimen will be enclosed with Purchase order & Stamp duty to be paid by the tenderer). The successful tenderer should also furnish a Bank guarantee only from a Nationalized bank to the extent of 10% of the total purchase order value, valid for 60 days beyond the completion of the warranty period of the equipment, no split period bank guarantee will be entertained.
 - In the event of the successful tenderer failed to supply the item/execute the agreement/submit the Bank Guarantee the EMD deposited by them shall stands forfeited.

20. Payment terms:

- **18.1** Payment will be made only after good working condition of the equipment certified by the end user. **NO ADVANCE PAYMENT WILL BE ENTERTAINED.**
- **18.2** In case of foreign payments made by Letter of Credit (LC) or wire transfer, bank incidental charges within India will be borne by the Institute and outside of India should be borne by tenderer.
- 18.3 Any amendment or extension of LC sought by the tenderer thereafter amendment charges should be borne by the tenderer only.

21. Uptime Guarantee:

Penalty Clause for non-functioning of equipment in term of hardship to the patients and financial loss to institute: 95% up time of 365 days (24 hours a day) that is from the day of successful handing over of the whole complex. The company takes the responsibility for the functioning of all the components and equipment, including the third party items supplied and included in the project. The total downtime annually for any reason/involvement of any of the components cannot exceed 5% (all inclusive). No penalty will be levied for the first one week after breakdown. Subsequently, Rs. 50,000 will be levied as penalty for every week from the day of breakdown. If downtime exceeds 7 days, the penalty will be Rs. 1.00 Lakh/week from the date



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on which the equipment broke down. In addition to this, warranty period will be extended at double the rate of the downtime period.

- 22. If, at any time, during the said period, the supplier reduce the said prices of such Materials/Equipment or sales such Materials/Equipment to any other person/organization/Institution at a price lower than the chargeable, the company shall forthwith notify such reduction or sale to the Director, NIMHANS and the price payable for the Materials supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.
- 23. The losses to NIMHANS, Bengaluru, if any incurred on account of purchase made elsewhere by failure, neglect or refusal on the part of the tenderer to supply according to the terms of agreement will be recovered from them. If any article or things supplied by the tenderer have been partially or wholly used or consumed in the hospital and they are subsequently found to be in bad condition, unsound, inferior in quality or description, not in accordance with samples or otherwise faulty or unit for use, the wholesome of the contract price or price of such articles or things will be recovered from the tenderer. The tenderer will not be entitled for any payment whatsoever, for such articles for infringements of the stipulation of the conditions or for justifiable reasons the contract may be terminated by the Director and the tenderer shall be liable for losses sustained by the NIMHANS on the consequences of the termination which may be recovered from the EMD/Bank Guarantee or from their invoices due to them. In the event of such amount being insufficient, the balance will be recovered personally from the tenderer.
- **24.** Any corrections/changes in the tender will be uploaded as corrigendum in the NIMHANS and E procurement websites only.
- **25.** If the tender last/opening date falls on any general/government/institute holiday(s), then the successive dates will be postponed by equivalent days of holiday(s), however the time remains unchanged.
- **26.** The Director reserves the right of ordering/not ordering/cancelling/increase or decrease the quantity and to reject any or all tender quotations without assigning any reason. The decision of the Director, NIMHANS, Bengaluru, shall be final in all the controversies that may arise in the matter. Any dispute arising out of this will be subject to the jurisdiction of the Court in Bengaluru.
- **27.** Failure to adhere any of the above terms and conditions the bid(s) may be rejected and EMD may be forfeited.
- **28.** None of the terms and conditions of the supplier shall be applicable to the purchase contemplated hereunder, irrespective of it being attached to any documents to be provided to NIMHANS. Such exercise shall have no meaning and binding effect unless the same is accepted by NIMHANS in writing.

NOTE: Please keep checking the NIMHANS and E-Procurement websites regularly for any further updates.

Sd/-,Director



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<u>DECLARATION</u> (TO BE UPLOADED BY THE TENDERER)

Sl. No. of the Item	:
Name of the company(tenderer)	:
То	
The Director,	
National Institute of Mental Healt	th &Neuro Sciences
(Institute of National Importance)	
Post Box No. 2900,	
Hosur Road, Bengaluru – 560 029	
Dear Sir,	
	MALME

- 1. I/We hereby submit my/our tender bid for the
- **3.** I/We have gone through all terms and conditions of the tender documents before submitting the same.
- **4.** I/We hereby agree to all the terms and conditions, stipulated by the NIMHANS, in this connection including delivery, Installation, Warranty, Penalty etc. All relevant documents and Technical bid are uploaded as per the tender terms and conditions. Any violation in uploading the documents, my/our tender bid may be disqualified.
- **5.** Financial bid is quoted as per tender terms and conditions clause no. 6, failing which it will be presumed that the rates are door delivery price.
- **6.** Tender bids are duly signed (No thumb impression should be affixed).
- 7. I/We undertake to sign the contract/agreement, if required, within reasonable time from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the NIMHANS, Bengaluru.

Yours faithfully,

Signature of Tenderer & seal



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CHECK LIST (TO BE UPLOADED BY THE TENDERER)

1	Name & Address of the tenderer		
2	Name & Address of the Manufacturer		
3	Name of the Equipment & Model Quoted		
4	Validity of the Quotation	4 months from the due date	
_	a. Installation Period	30 Days from the date of site handover	
5	b. Warranty Period	5 Years from the date of successful installation	
6		a. Application Fee submitted	
	Technical Bid (Yes or No against each item)	b. EMD enclosed submitted	
		c. Brochure/Catalogue & Data Sheet enclosed	
		d. Manufacturer Proprietary certificate enclosed	
		e. Pre requirements details enclosed	
		f. List of users enclosed	
		g. Copy of GST, PAN, TIN document	
		h. Distributor authorization letter	
		i. Non-blacklisting certification enclosed	
		j. Declaration enclosed	
	Financial Bid Submitted (Yes or	a. NIMHANS DAP equipment cost quoted	
7	No against item a & b, currency	b. 5 years warranty	
	symbol against item c)	c. Currency in which financial bid is quoted	
8	Training provided (Yes or No)		
	a. Whether after sales, service is available in Bengaluru?		
•	If yes, quote		
9	b. What is the arrangement for		
	post contract / Warranty		
	monitoring of the equipment?		
10	What is the Agency commission payable? If applicable		
11	Details of the EMD Submitted	Transaction No for ₹	
12	Any Other Information (Enclose separately in letter head – Yes/No)		

Signature of Tenderer & seal



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For Contact:

Dr. Bhupesh Mehta

Associate Professor - Department of Biophysics

Ph no: 0802699-5901/5878/5101

TECHNICAL SPECIFICATIONS: Automated Laser Scanning Confocal Microscope

Please quote for highly sensitive and high-resolution Spectral Laser Scanning Confocal Microscope capable of imaging for live and fixed sample for biological applications. The system should be capable of multichannel Fluorescence imaging with Z-Stack, time lapse, co-localization, FRET, FRAP, photon Counting, photo uncaging, photo activation, and photo conversion imaging and analysis with the following minimum specifications:

Microscope

 Fully Motorized Inverted Fluorescence Research Microscope for Bright Field/DIC/Fluorescence with dedicated TFT/LCD touch screen display for full control of Microscope

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- Automated light distribution for eyepiece and camera 100:0 for camera and eyepiece.
- Motorized XY scanning stage with universal sample holders for slides, 35/60mm Petri dish, and other live cell sample holders like 6 Well plate, 96 Well plate, mosaic / stitching and multipoint imaging
- Transmitted and Reflected Light illumination with 100W halogen (or equivalent LED) with fast inbuilt shutter.
- Two quantity of LED fluorescence light source with min. 25,000hrs life time and trigger controlled by software.
- Software / Hardware based control of focus drift during long term live cell imaging.
- Motorized 6 position DIC nosepiece, motorized BF/DIC 6 or more position condenser, 6
 position motorized FL filter turret for sample visualization and camera-based imaging must
 be provided
- FL Band pass filter sets for DAPI, GFP/FITC, TRITC/Rhodamine, DsRED, Texas Red should be offered. All filters should not have any pixel shift.

Purchase sectionPage8 of 14



Fax: 080-26571563/26564830/2121/6811 Website: www.ni E-ProcurementGlobal Tender No.STR-D1/NIMHANS/2019-20/IND570

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- Monochrome cooled CCD camera with min. 6MP resolution, and min. 20fps controlled by confocal software with multichannel, Z stack, time series, Multipoint, stitching, measurements and statistical analysis.
- High precision built in Z-focus drive with step resolution of 10nm or better
- Facility for live cell imaging including stage top Active Incubation system with 100% CO2 input and Temperature, CO2, humidity control and complete safety regulations should be offered Two quantity of Stage top incubators to be offered.
- The parameters for Incubation system should be controlled by confocal software for seamless integration and parameters control
- An active breadboard based anti-vibration table with compressed air damping for the complete microscope System should be available as standard

Objectives

- High resolution confocal grade objectives corrected for both UV & VIS lines for Bright Field, Fluorescence and DIC applications
- 10X Phase (NA 0.3 or better) long working distance
- 20X Phase (NA 0.5 or better)
- 40X Phase & DIC (NA 0.65 or better) Long Working Distance
- 60X or 63X Oil Immersion (NA 1.4 or better) Plan apochromat
- Shift free DIC accessories, DIC and fluorescence images should exactly overlap, there should not be any pixel shift
- Adaptation of using the same objectives for making upright imaging should be offered –
 Objective inverter should be offered.

Eyepieces

 Anti-fungus type 10X with diopter adjustment in both eyes with FOV 22mm or more and eye cups along with eyepiece dust cover



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Confocal Attachments:

Scanning Module:

- High resolution, wide spectrum Photo Multiplier Tube and HyD/GaAsP detector units
- The detection system should be capable of both intensities based Confocal imaging and spectral confocal imaging covering entire visible range. Should be available with 2 PMT and Three GaAsP/HyD with QEZ45% for imaging fluorophores in the complete Vis Spectrum
- The scanning system should be able to record at least 2 fluorescence channels simultaneously
 and at least 4 fluorochromes simultaneously and / or sequentially in the channel or spectral
 mode
- The system should be capable of resolving the following fluorophores in the channel or spectral mode

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- Hoechst/DAPI/Alexa 405/CFP
- o GFP/Alexa488/FITC
- o YFP
- o TRITC/Rhodamine/DaRed/RFP
- o Texas Red/mCherry/Alexa 568/Alexa 647
- Spectral detectors should be capable of spectral unmixing to detect samples dually labelled with GFP and YFP and Reduce background auto fluorescence
- Independent X, Y galvanometer scanner with 180deg rotation. Resolution capability of scanner should be at least up to 2048 X 2048 pixels
- Selectable different scanning speeds with minimum speed greater than 5-7 fps or higher for resolution of 512 X 512 pixel for fixed samples and higher Speeds of at least 100 fps for 512X16 /64 pixel for bidirectional ROI imaging of live samples
- ROI scan and bleach with various shapes should be possible for FRAP experiments. Line
 Scanning mode with selectable lines
- Magnification (from 0.75X to 20X or more) in adjustable increments of 0.1, at least 2009 free scan rotation in 19 increment, at least 18-20 mm or better diagonal scan field in the intermediate image plane, Motorized pinhole with a continuously variable diameter, Beam splitters to direct emitted light to Channels, and Suppress Outstanding laser line, Data depth of 8, 12 and 16 bit (selectable)
- An additional transmitted light detector should be offered for bright field and DIC imaging



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Laser Module:

- Individually variable power solid states Diode/Gas or combination LASER with complete
 AOTF Control for fast Laser switching and attenuation
- Laser ports for UV/405nm, Vis, IR and additional ports for future upgradęs. Optical fiber / direct Coupling to Scanning module
- #405-408mm 25mW
- #440-460nm 10mW
- #488nm (multiline laser for simultaneous imaging of GFP and CFP) 10mW
- #510-520nm 10mW
- #561nm 20mW
- #630-640nm lines with direct modulation 20mW
- All lasers supplied should have 8,000 hours or better lifetime and should be replaced after 3
 years of use

Control Module

 The control module should have real time integration of Computer, Microscope control, LASER control, Scanner control, Monitoring of data acquisition, and synchronization of different parts and accessories, etc.

Software

- Software should be from the same company.
- TWO sets of Software should be supplied with the system, one for controlling and running the equipment and another for offline analysis
- The software must have all the standard features like configuration of microscope, LASER power, Scanning Module, System self-test with calibration, automatic setting of system according to Selection of different dyes, Acquisition of spot, line, frame, Z-Stack, wavelength stack, time series, and all combination of X, Y & Z with time, Ratio, averaging & Summing, selection of scan area, real ROI scan, Localized Bleach, ROI Bleach, FRAP using of different LASER lines for different ROI, Changing of Excitation lines during acquisition of multifluorescence, sequential acquisition of image stacks with spectral information, spectral unmixing capability, presentation of captured image in XY, Orthogonal, 3D Section, 5D for



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E-ProcurementGlobal Tender No.STR-D1/NIMHANS/2019-20/IND570

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time & line Scan etc. Should include 3D Deconvolution module for multi-dimension images in batch mode.

Workstation

Two factory configured branded workstation with min. 3.3GHz intel processor, 64GB RAM, appropriate Nvidia Quadro Graphics Card, 250GB SSD, 6TB HDD, DVD RW+, 32"
 Monitor, Keyboard & Mouse, Windows 10 licensed copy for controlling the Microscope, above Software and for offline analysis.

Additional Requirements:

- Suitable 5KVA UPS for 30 min backup for the entire system
- Two set of Computer table for acquisition and offline systems should be included.
- Five-years complete Warranty on all parts.
- Downtime for repair should be a maximum of one month with financial liabilities upon delay of Service
- XY manual stage from Gibraltor/Scientifica should be included for mounting upright microscope.
- IR sensitive camera from DAGE / Hamamutsu should be offered.
- 230 V AC 50Hz
- Detailed service manual must be supplied along with instrument
- Detailed Operating manual for Instrument as well as Software must be supplied with the Instrument
- Full detailed original catalogue with clear color pictures must be included with the quotation
- Onsite training should be provided as part of the Installation to users at NIMHANS,
 Bangalore
- Training should include Working on all the Lasers that are provided with the System and data
 analysis with the software included in the bid during the training the vender must demonstrate
 the performance specifications of the system like resolution, sensitivity, scanning speed,
 Working distance of objectives, etc. at optimal operating conditions



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- Any upgrades in software or hardware (Instrument) introduced by the manufacturer should be intimated to the user
- All mandatory upgrades by the manufacturer should be performed as and when the manufacturer introduces both in software and instrument hardware
- Instrument quoted should be a complete system in all respects; any additional accessories required for the instrument to operate should also be quoted as part of the instrument and should be supplied along with the Instrument
- Also any special pre-installation requirements needed for optimal performance of the system should clearly be mentioned in the quote

Optional:

- CMC for additional years (6 10th yr)
- 100X oil immersion (NA 1.4 or better) Plan apochromat
- Laser Module 594nm 20mW
- High Resolution Imaging attachment
 - Fully integrated, automated and motorized real-time / online High-resolution attachment
 with suitable high sensitive Detectors for complete Vis Spectrum
 - The system should be able to work in high resolution mode, high speed mode, high sensitivity mode as well as and Confocal Mode for normal imaging for all applications that can be expected out of the system
 - Lateral resolution of 120-150 nm or better and Axial resolution of at least 350-400 nm or better should be expected out of the system
 - Detection should be based on GaAsP/HyD or high sensitive detectors
 - At least 2 fluorophores imaging in simultaneous mode should be possible With the High-resolution system. Any dye used for confocal system can be used for imaging without changing sample preparation techniques/protocol. Should be able to perform at least 4 fluorophores imaging in simultaneous and / or sequential mode
 - Should be able to perform live cell High resolution imaging. All laser lines for Confocal Imaging (Vis and IR laser) should be used for imaging in HR mode. Frame rates in HR mode should be approx. 5-20 fps (512X512) and should improve with ROI.



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- Quotations should be supplemented with satisfactory performance report from the end users of national institutes like (IISc, NCBS, AIIMS, IIT'S, IISER, CSIR labs, etc.) for the same equipment. Supplier should have a strong service record in India. The company should provide the details of satisfactory service performance from the government institutes and should provide 24hr service support in Bangalore.
- Confocal microscope brochure should be provided and the same details should be mentioned in their web page. Complete details of light path, instrumentation should be provided.

---sd----DIRECTOR

