



E-Procurement Tender No. NIMHANS/2019-20/IND619

D:15.06.2020

# TENDER NOTIFICATION (Through Karnataka 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 No.) | EMD (in ₹) |
|---------|--|-------------------|------------|
| 1.      | Automated Laser Scanning Confocal Microscope | 01                | 5,00,000/- |

# Tender Schedule

| Downloading of Tender documents from website -<br>https://eproc.karnataka.gov.in/eportal/index.seam | From 15.06.2020 Onwards  |
|---|--------------------------|
| Last date for tender enquiry  | 22.06.2020 upto 11:00 AM |
| Tender submission last date and time  | 30.06.2020 upto 11:00 AM |
| Technical bid will be opened online by the authorized officer on                                    | 01.07.2020 at 11:01 AM   |



Sd/-, Director

# TENDER DOCUMENT

- The bid documents for the above items should be addressed to "The Director, National Institute of Mental Health & Neuro Sciences, Post Box No. 2900, Hosur Road, Bengaluru – 560 029, Karnataka, India" and should uploaded in E Procurement portal only on or before the due date.
- 2. The tender bid should be valid for 120 days from the due date. NIMHANS, Bengaluru will not take any responsibility for any technical issues.

# 3. Earnest Money Deposit (EMD):

**a.** The (EMD) shall be denominated in Indian Rupees and should be paid in the e-procurement portal as per the facility provided.

**b.** 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.
- 5. Technical bid should comprise of (uploaded copy of documents should be self attested, stamped and better quality preferably .pdf format) -



NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES (Institute of National Importance), Bengaluru- 560 029 राष्ट्रीय मानसिक स्वास्थ्य और तंत्रिका विज्ञान संस्थान, (राष्ट्रीय महत्व संस्थान), बेंगलुरू - 560 029

ರಾಷ್ಟ್ರೀಯ ಮಾನಸಿಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ, (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥೆ), ಬೆಂಗಳೂರು - 560 029 Phone 26995023/5024/5923/5913/5025/5780 Website http://www.nimhans.ac.in/tender Fax 080-26571563/26564830/2121/6811 E-mail aaos@nimhans.ac.in



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- **a.** Brochure/Catalogue and Data sheet of the equipment.
- **b.** Technical Compliance Statement
- **c.** Proprietary certificate from the manufacturer mentioning the unique technology or feature/s mentioned apart from the brand name (If applicable).
- **d.** 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)
- e. Delivery Period of the item to be supplied and Time required for installation from the date of purchase order has to be indicated.
- **f.** List of Institutes where the equipment has been supplied with copy of purchase orders.
- g. Copy of GST, PAN, TIN document
- **h.** 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.
- i. Non blacklisting 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 ₹100/-.
- j. Declaration towards acceptance of all terms and conditions should also be provided.
- 6. Financial Bid should comprise of
  - a. Quotation should be only for NIMHANS Door Delivery Price inclusive of main equipment cost, CMC Cost from 6<sup>th</sup> to 10<sup>th</sup> year after warranty period of 5 years, 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. with a detailed break up mentioning 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 icon "Action column" by clicking the % symbol which will be mentioned as Added statutory components(item wise breakup of equipment cost, taxes, CMC cost per year from 6<sup>th</sup> to 10<sup>th</sup> year and all other charges till NIMHANS)

- **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.
- **c.** In case of Import, Customs Duty will be considered only at 5.50% of the total Purchase order value and the required Customs clearance documents will be provided by NIMHANS on prior intimation (at least 7 working days prior intimation) of shipment along with details and relevant documents from the supplier.



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26995023/5024/5923/5913/5025/5780 Phone Fax 080-26571563/26564830/2121/6811

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- d. Exchange rates for Foreign Currency will be considered as per the closing value on the tender last date (i.e. 30.06.2020). IF EXCHANGE RATES ARE NOT AVAILABLE FOR THE TENDER LAST DATE, THEN THE EXCHANGE RATE AS OF LAST **CLOSING DAY BEFORE 30.06.2020 SHALL BE CONSIDERED FOR FINANCIAL EVALUATION PURPOSE.**
- 7. Successful tenderer decision will be made on the basis of total cost for the items from #1 to #8 in technical specifications and will be calculated for L1 selection.
- 8. The cost of the "Confocal Microscope" will be freezed for 1 Year from the date of purchase order; however Institute reserves the right to procure/reject the purchase of equipment with the successful tenderer on repeat order basis within 1 year from the date of purchase order.

# 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 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. वें योग हैं।
- 11. Equipment and its accessories should be covered with minimum warranty period of 5 years 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 5 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 as and when supplies received from the principles etc., will not be considered under any circumstances.



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Phone26995023/5024/5923/5913/5025/5780Fax080-26571563/26564830/2121/6811

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- **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 submit the hard copy of 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/s at free of cost after completion of the installation.
- 19. The successful tenderer should immediately submit an acceptance letter duly signed and sealed for the rates 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:

Payment will be made only after good working condition of the equipment certified by the end user / Letter of credit. NO ADVANCE PAYMENT WILL BE ENTERTAINED.

- a. 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 India should be borne by tenderer.
- **b.** Any amendment or extension of LC sought by the tenderer thereafter should be borne by the tenderer.

# 21. Liquidated damages:

In case of failure to supply, install or maintain the equipment within the stipulated period due to the fault of successful bidder, the bidder shall be liable to pay liquidated damages, at the rate of half percent per week reckoned on the contract price of that portion of the contract which is delayed subject to a maximum of 10 percent and the same will be recovered from the performance bank guarantee / invoice pending for payment.



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22. 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). Subsequently if downtime exceeds 5% of 365 days, 0.5% of PO Value will be levied as penalty for every 7 days. In addition to this, warranty period will be extended at double the rate of the downtime period.

- **23.** 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.
- **24.** 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.
- **25.** Any corrections/changes in the tender will be uploaded as corrigendum in the NIMHANS and E procurement websites only.
- **26.** If the tender opening date falls on any general/government/institute holiday(s), then the tender will be opened on the next working day of the institute, however the time remains unchanged.
- **27.** 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.



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- **28.** Failure to adhere any of the above terms and conditions the bid(s) may be rejected and EMD may be forfeited.
- 29. <u>None of the terms and conditions of the supplier shall be applicable to the purchase</u> <u>contemplated hereunder, irrespective of it being attached to any documents to be provided</u> <u>to NIMHANS. Such exercise shall have no meaning and binding effect unless the same is</u> <u>accepted by NIMHANS in writing.</u>

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

Sd/-, Director







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## **DECLARATION** (TO BE GIVEN BY THE TENDERER)

| Name of the Equipment: |   | Confocal Microscope |  |  |  |
|------------------------|---|---------------------|--|--|--|
| Name of the company    | : |                     |  |  |  |

То

The Director, National Institute of Mental Health & Neurosciences (Institute of National Importance) Post Box No. 2900, Hosur Road, Bengaluru – 560 029

Dear Sir,

- 1. I/We hereby submit my/our tender for the \_\_\_\_\_\_
- I/We have made requisite payment against EMD as per the tender document vide reference No.
   & date ....., else my tender bid may be rejected.
- 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, warranty, penalty etc. Quotations for each group are being submitted and shall be considered on their face value.
- 5. 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.

#### NOTE: ALL TERMS & CONDITIONS SUCH AS TAXES/LEVIES ETC, HAS BEEN INDICATED IN THE QUOTATIONS FAILING WHICH IT WILL BE PRESUMED THAT THE RATES ARE INCLUSIVE OF ALL TAXES/LEVIES AND OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENTS.

Yours faithfully,

Signature of Tenderer & seal



राष्ट्रीय मानसिक स्वास्थ्य और तंत्रिका विज्ञान संस्थान, (राष्ट्रीय महत्व संस्थान), बेंगलूरू - 560 029

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# CHECK LIST

#### (TO BE FILLED BY THE TENDERER)

| 1. |   |                                       |                                       |   |  |
|----|---|---------------------------------------|---------------------------------------|---|--|
| 2. |   |                                       |                                       |   |  |
| 3. |   |                                       |                                       |   |  |
| 4. | Validity of the quotation                           |                                       | 120 days from the tender due date     |   |  |
|    | a. Delivery Period                                  |                                       |                                       |   |  |
| 5. | b.  | Warranty Period                       | 5 years from the date of Installation |   |  |
|    | c.  | Installation Period                   |                                       |   |  |
|    |   |                                       | a.                                    | Application Fee submitted                 |  |
|    |   |                                       | b.                                    | EMD submitted                             |  |
|    |   |                                       | c.                                    | Brochure/Catalogue uploaded               |  |
|    |   |                                       | d.                                    | Technical Compliance Statement            |  |
|    |   |                                       |                                       | Manufacturer Proprietary certificate      |  |
|    |   |                                       | e.                                    | uploaded                                  |  |
|    |   | _                                     | f.                                    | Pre requirements details uploaded         |  |
| 6. | Tender Bid details<br>(YES or NO against each item) |                                       |                                       | List of users uploaded                    |  |
| υ. |   |                                       |                                       | Copy of GST/PAN/TIN & Bank details        |  |
|    |   | ES or NO against each item)           | h.                                    | uploaded                                  |  |
|    |   | NS N                                  | i.                                    | Distributor authorization letter uploaded |  |
|    |   |                                       | j.                                    | Non-blacklisting certification uploaded   |  |
|    |   | E C                                   | k.                                    | Declaration enclosed                      |  |
|    |   |                                       |                                       | Equipment Door delivery cost quoted       |  |
|    | A. S.   |                                       | m.                                    | CMC cost for 5 years post warranty        |  |
|    |   |                                       |                                       | period                                    |  |
| 7. | Tra   | aining will be provided (YES or NO)   |                                       |   |  |
| _  |   | Whether after sales, service is       |                                       |   |  |
| 8. | a.  | available in Bengaluru? If yes, quote |                                       |   |  |
|    |   | the details                           |                                       |   |  |
|    | ,   | What is the arrangement for post      |                                       |   |  |
| 9. | b. contract / warranty monitoring of the            |                                       |                                       |   |  |
|    |   | equipment                             |                                       |   |  |
| 10 | An  |                                       |                                       |   |  |
|    | ser   | parately in letter head – YES or NO). |                                       |   |  |

Signature of Tenderer along with seal



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For Contact: Dr. Bhupesh Mehta Associate Professor - Department of Biophysics Ph no: 0802699-5901/5878/5101

#### TECHNICAL SPECIFICATIONS: <u>Automated Laser Scanning Confocal Microscope</u>

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:

| 1. Microscope | • Fully Motorized Inverted Fluorescence Research Microscope for Bright Field/DIC/Fluorescence                 |
|---------------|---|
|               | with dedicated TFT/LCD touch screen display for full control of Microscope.                                   |
|               | • Automated light distribution for eyepiece and camera 100:0 for camera and eyepiece.                         |
|               | • Motorized XY stage with 20nm or more precision along with universal sample holders for                      |
|               | slides, 35mm and 60mm petri dish, and live cell sample holders for 6 & 96 Well plate. Software                |
|               | module for automated mosaic/stitching and multipoint imaging capability.                                      |
|               | • Transmitted and Reflected Light Illumination with LED illumination system of minimum                        |
|               | 10,000 hrs life time, along with necessary light guide and accessories.                                       |
|               | • TWO quantity of LED based/metal halide FURA-2 and visible fluorescence light source with                    |
|               | min. 25,000 hrs life time with software/trigger controlled.   |
|               | • IR based control of focus drift during long term live cell imaging with both hardware and                   |
|               | software included.  |
|               | • 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, FURA-2, GFP/FITC, TRITC/Rhodamine, DsRED, Texas                          |
|               | Red should be offered. All filters should not have any pixel shift.   |
|               | • ONE no of monochrome SCMOS camera for fluorescence imaging with minimum 4MP                                 |
|               | resolution, and minimum 40fps, QE above 80% @560 nm.  |
|               | • ONE no of IR sensitive camera from DAGE/Hamamutsu/QImaging should be offered with QE                        |
|               | above 80% for Wavelength above 560 nm.  |
|               | • 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% CO <sub>2</sub> input |
|               | and Temperature, CO <sub>2</sub> , humidity control and complete safety regulations should be offered,        |
|               |   |



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Phone 26995023/5024/5923/5913/5025/5780 Website http://www. Fax 080-26571563/26564830/2121/6811 E-mail aaos@nimh

Website http://www.nimhans.ac.in/tender E-mail aaos@nimhans.ac.in



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|    |                   | should have sample adaptors for Chambered slides, Petri dishes 35mm and 50mm and multiwell   |
|----|-------------------|--|
|    |                   | plates – one quantity of active stage top incubators with controllers and accessories.   |
|    |                   | • 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. Make model need to be specified.  |
| 2. | <b>Objectives</b> | • High resolution confocal grade objectives corrected for both UV & VIS lines for Bright Field,  |
|    |                   | Fluorescence and DIC applications  |
|    |                   | • Confocal grade 1x ~ 3x objective with high NA  |
|    |                   | • Plan Fluorescence grade Phase 20X NA 0.5 or better long working distance objective   |
|    |                   | • One number of Plan Fluorescence grade Phase 40X NA 0.65 or better Long working distance  |
|    |                   | objective.   |
|    |                   | Additional One more 40X DIC NA 0.85 or better  |
|    |                   | • Plan apochromat 60X or 63X Oil Immersion (NA 1.4 or better) - Plan apochromat  |
|    |                   | • Plan apochromat 100X oil immersion (NA 1.4 or better) with 30ml of spare oil.  |
|    |                   | • Shift free DIC accessories, DIC and fluorescence images should exactly overlap, there should   |
|    |                   | not be any pixel shift   |
|    |                   | <ul> <li>Adaptation of using the same objectives for making upright imaging should be included –</li> </ul>  |
|    |                   | objective inverter should be included.   |
| 3. | Eyepieces         | • Anti fungus type 10X with diopter adjustment in both eyes with FOV 22mm or more and eye  |
| 5. | <u>Eyepicees</u>  | cups along with eyepiece dust cover.   |
| 4  | Confecal          | 100  |
| 4. | <u>Confocal</u>   | • High resolution, wide spectrum Photo Multiplier Tube and HyD/GaAsP detector units  |
|    | Attachments       | • The detection system should be capable of both intensity based confocal imaging and spectral   |
|    |                   | confocal imaging covering entire visible range. Should be available with 2 PMT and 2   |
|    |                   | GaAsP/HyD (additional GaAsP/HyD will be preferred) with QE45% or more for imaging  |
|    |                   | fluorophores in the complete Vis Spectrum. All the detectors should be spectral in nature.   |
|    |                   | • 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   |
|    |                   | <ul><li> The system should be capable of resolving the following fluorophores in the channel or spectral</li></ul>   |
|    |                   |  |
|    |                   | • The system should be capable of resolving the following fluorophores in the channel or spectral  |
|    |                   | • The system should be capable of resolving the following fluorophores in the channel or spectral mode   |
|    |                   | <ul> <li>The system should be capable of resolving the following fluorophores in the channel or spectral mode         <ul> <li>Hoechst/DAPI/Alexa 405/CFP</li> </ul> </li> </ul> |



Phone

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|                    | 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 4096X 4096 pixels  |
|                    | • Selectable different scanning speeds with minimum speed of 7 fps or more for 512x512              |
|                    | resolution without line skipping or line interpolation 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   |
|                    | • Confocal Zoom / Magnification (from 0.75X or less TO 20X or more) in adjustable increments        |
|                    | of 0.1, at least 200 deg free scan rotation, 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       |
|                    | • 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 upgrades. Optical fiber /       |
|                    | direct Coupling to Scanning module.   |
|                    | • One number each of the lasers -   |
|                    | o 405-408mm 25mW 何何可可至高多  |
|                    | • 440-460nm 10mW  |
|                    | • 488nm (multiline laser for simultaneous imaging of GFP and CFP) 10mW                              |
|                    | • 510-520nm 10mW  |
|                    | • 561nm 20mW  |
|                    | <ul> <li>630-640nm lines with direct modulation 10mW</li> </ul>                                     |
|                    | • All LASERS supplied should have minimum of 8,000 hours lifetime.                                  |
|                    | • 488nm and 561nm LASERS should be replaced after 3 years of use.                                   |
|                    | • The control module should have real time integration of Computer, Microscope control, LASE        |
|                    | control, Scanner control, Monitoring of data acquisition, and synchronization of different parts    |
|                    | and accessories, etc.   |
| 5. <u>Software</u> | 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  |
|                    | equipment and another for offinite analysis   |



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|    |                    | • 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 multi-               |
|    |                    | fluorescence, sequential acquisition of image stacks with spectral information, spectral               |
|    |                    | unmixing capability, presentation of captured image in XY, Orthogonal, 3D Section, 5D for              |
|    |                    | time & line Scan etc. Should include 3D Deconvolution module for multi-dimension images in             |
|    |                    | batch mode.  |
| 6. | High               | • Fully integrated, automated and motorized real-time / online High-resolution attachment with         |
|    | Resolution         | suitable high sensitive Detectors for complete Vis Spectrum  |
|    | Imaging            | • The system should be able to work in high resolution mode, high speed mode, high sensitivity         |
|    | attachment         | 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 3 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.                                      |
| 7. | Workstation        | • TWO factory configured branded workstation with min. 3.3GHz intel processor, 64GB RAM,               |
| /. | <u>workstution</u> | 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.  |
|    |                    | <ul> <li>TWO sets of Computer table for acquisition and offline systems should be included.</li> </ul> |
|    |                    |  |
|    |                    | • ONE number of XY manual translation stage with ONE number of fixed slice platform                    |
|    |                    | (Scientifica/Gibralter or similar make (compatible for electrophysiology experiments)) should          |
|    |                    | be included for mounting upright microscope.   |
|    |                    | ONE number of Suitable 5KVA UPS for 30 min backup for the entire system                                |
| 8. | Warranty,          | • FIVE Years complete Warranty on all parts.   |



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ರಾಷ್ಟ್ರೀಯ ಮಾನಸಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥ, (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥ), ಬಂಗಳೂರು - 560 02 Phone 26995023/5024/5923/5913/5025/5780 Website http://www.nimhans.ac.in/tender Fax 080-26571563/26564830/2121/6811 E-mail aaos@nimhans.ac.in



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| Services,   |  |  |  |  |
|-------------|--|--|--|--|
|             | • CMC for additional years (6 – 10 <sup>th</sup> year) after warranty period of 5 years                      |  |  |  |
| Training,   | (detailed breakup should be provided year wise in action Column % in the E-                                  |  |  |  |
| Catalogue   | procurement Karnataka)   |  |  |  |
|             | • Detailed service manual must be supplied along with instrument   |  |  |  |
|             | • Detailed Operating manual for Instrument as well as Software must be supplied with the                     |  |  |  |
|             | Instrument   |  |  |  |
|             | • Downtime for repair should be a maximum of one month with financial liabilities upon delay                 |  |  |  |
|             | of Service   |  |  |  |
|             | • 230 V AC 50Hz  |  |  |  |
|             | • Full detailed catalogue with clear picture 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   |  |  |  |
|             | • 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   |  |  |  |
|             | • Quotations should be supplemented with satisfactory performance report form end users of                   |  |  |  |
|             | Government institute like (IISC, NCBS, AIIMS, IIT'S, IISER, CSIR lab 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.  |  |  |  |
|             | <ul> <li>Confocal microscope brochure should be provided and the same details should be mentioned</li> </ul> |  |  |  |
|             | in their web page. Complete details of light path, instrumentation should be provided.                       |  |  |  |
| 9. Optional | Laser Module - 594nm 20mW  |  |  |  |
| 7. Optional |  |  |  |  |

# Note: Items from #1 to #8 will be calculated for L1 selection.