



NOTICE INVITING TENDER (N.I.T)

TENDER NOTICE NO.NIAB/PUR/GLT/06/2012

29.02.2012

Sealed Tenders are invited on behalf of the Officer-on-Special Duty, NIAB in **TWO BID SYSTEM** for procurement of **Confocal Microscope**

Scope of work: Supply, Installation, Testing and Commissioning of the above Equipment.

Details of Tender:

1. Earnest Money Deposit (**EMD**): Rs. 6,00,000/-
2. Tender documents consisting of Techno Commercial Bid document and Financial Bid documents can be downloaded from the website.
3. The above tender will be dealt with under “TWO BID SYSTEM”. Techno Commercial Bid (Part I) and Financial Bid (Part II).
4. Both Part – I and Part – II duly sealed and then be placed in a bigger cover Bearing the Tender Notice Number on the top, date and time of opening the tender.
5. The Techno Commercial bid shall contain the following:
 - (i) Technical bid document comprising N.I.T instruction to tenderers, letter of submitting the tender, general conditions of the Tender with detailed specifications.
 - (ii) Tender Document each page duly signed by the Bidder as token of acceptance. If any deviation is proposed by the Bidder, the same must be clearly indicated and enclosed as deviation list as Annexure but Tenders with significant deviations list may be liable for rejection.
 - (iii) EMD in the form of demand draft drawn in favour of NIAB, Hyderabad.
 - (iv) Other Information / documents/literature/catalogues as indicated in Instructions to Tenderers.
 - (v) All necessary catalogues/ technical literature, data as are considered essential for full and correct evaluation of bids.

- (vi) Availability of number of trained support personnel, both application and service support.
- (vii) Compliance statement indicating yes/ no as per the specifications
- (viii) Copy of the bidders price schedule with out prices mentioned
- (ix) The complete Technical Bid (Part I) to be singed and enclosed.

6. The Financial Bid shall contain the following:

- (i) Duly filled in price bid document.
- (ii) Tenderers are required to quote individual item rates for each item given in the price bid documents. The rates and amount shall be quoted in figures in the price bid document. The rates and amount shall be quoted in figures as well as in words. In case of difference in quoted rates, the rates in words will be taken as final rates.
- (iii) The Bidders are to quote both in INR and Foreign currency wherever applicable.
- (iv) NIAB has applied for exemption of Exise Duty and Custom duty. The Bidders are requested to quote in Customs Bounded Ware House Prices or High Seas Sale prices.

7. Sealed tenders signed in each page are to be submitted to the office of **OSD,National Institute of Animal Biotechnology**, Visiting Scholars House, Lake View Guest House, University of Hyderabad Campus, Prof. C.R. Rao Road, Gachibowli, Hyderabad before the prescribed last date.

8. NIAB does not bind itself to accept the lowest or any other tender and reserves the authority to reject any or all tenders without assigning any reason. All the tenders, in which any of the prescribed conditions are not fulfilled or incomplete, in any respect, are liable to be summarily rejected.

9. This Notice Inviting Tender (N.I.T) shall form part of the Tender Document.

10.OSD, NIAB reserves the right to postpone the tender issue date, submission /opening date and to accept or reject any or all tenders without assigning any reasons.

11.Tender completed in all respects shall be submitted as per "Instructions to Tenders" forming part of the tender document.

12.Any tender received without Earnest Money Deposit in the form as specified shall be summarily rejected.

13.The tenderer shall sign all the pages of the tender documents and other documents submitted by him along with the tender.

14. The tenderer should ensure that rates / amounts quoted should appear only in the Financial Bid document (Part II) and nowhere else, otherwise, the tender is liable to be rejected.

15. Techno commercial bid and Financial bid shall be submitted simultaneously on due date as above within the due date. Only Techno Commercial Bids shall be opened on the due date and the Financial Bids shall be kept sealed. Later on, a date shall be fixed and intimated for opening of Financial Bids of only of those Vendors whose Techno Commercial Bids are found technically suitable by NIAB.

16. Documents duly completed in all respects shall be submitted in the office of **National Institute of Animal Biotechnology**, Visiting Scholars House, Lake View Guest House, University of Hyderabad Campus, Prof. C.R. Rao Road, Gachibowli, Hyderabad

I	Last Date for Receipt of Tender	28.03.2012 at 3.00 P.M.
II	Opening of Techno Commercial Bid	28.03.2012 at 4.00 P.M.

Sd/-
Officer -on-Special Duty

INSTRUCTIONS TO BIDDERS

1. GENERAL INSTRUCTIONS:

OSD, National Institute of Animal Biotechnology, Hyderabad, will receive Tenders in respect of the items mentioned in the Tender specifications.

- 1.1 Tenders received after the date and time fixed for receipt of Tenders as indicated above are liable to be rejected. **NIAB** takes no responsibility for delay, loss or non-receipt of Tender documents sent by Post / Courier. Telex / Telegraphic / Fax / Email offers will not be accepted.
- 1.2 **NIAB** is not bound to accept lowest or any Tender or to assign reasons for non-acceptance of any Tender.
- 1.3 The bidder shall not be entitled to claim any costs, charges, expenses incidental to or incurred by him through or in connection with his submission of Tender, even if the OSD, **NIAB** decides to withdraw or cancel the Tender.
- 1.4 Unsealed Tenders, unsigned Tenders, incomplete Tenders, or Tenders otherwise considered defective are liable to be rejected.
- 1.5 OSD, **NIAB** reserves the right to accept the Tender either in whole or in part and the prices quoted by the bidder shall be deemed to hold good even if the Tender is accepted in part by the OSD, **NIAB**.

2. CAPACITY OF THE BIDDER:

- 2.1 Any person signing a Tender shall submit documentary evidence that his Signature on the Tender, submitted by him, is legally binding upon himself, his firm.
- 2.2 If it is detected that the person so signing the Tender has no authority to do so, the OSD, **NIAB** may, without prejudice to other civil and criminal remedies, not consider the Tender and hold the signatory liable for all costs and damages.
- 2.3 The bidder shall produce a certificate from the Manufacturer of the offered product that they are the authorised exclusive dealers in India.

3. BIDDER TO INFORM HIMSELF FULLY:

3.1 The bidder is required to carefully examine the documents contained in this Tender document and fully inform himself as to all conditions and matters which may in any way affect the works or the cost therefore, before submitting his offer. If the bidder finds discrepancies, omissions, or contradiction in the documents or in doubt as to true meaning of any part, he shall at once frequent in writing for clarification to **NIAB**. **NIAB** will issue such clarification in writing. The bidder however shall not be entitled to any extension of time for submission of his Tender on such account.

4. EARNEST MONEY:

4.1 The Tender must be accompanied by Earnest Money Deposit (EMD) in the form of a Demand Draft drawn on the State Bank of India or any Nationalised Bank in favour of **National Institute of Animal Biotechnology**, for an amount of Rs.6,00,000/- (Rupees Six lakhs only), payable at Hyderabad. If the bidder after submitting his Tender revises his offer or modifies the terms and conditions thereof in a manner not acceptable to the OSD, **NIAB**, the earnest money shall be liable to be forfeited.

4.2 EMD should be kept along with the Technical bid in one envelope.

Tenders not accompanied by EMD shall be liable for rejection at the sole discretion of the OSD, NIAB.

4.3 The Earnest Money will be returned without any interest to the unsuccessful bidders after the finalisation of the order with the successful bidder.

4.4 The earnest money shall be returned to the successful bidder after the security deposit equivalent to 10% of the total Purchase Order value in Indian rupees in the form of bank guarantee has been furnished in favour of the OSD, **NIAB**.

5.0 MANNER, METHOD AND PLACE FOR SUBMISSION OF TENDERS:

5.1 Tenders shall be made in favour of:

National Institute of Animal Biotechnology,
Visiting Scholars House, Lake View Guest House,
University of Hyderabad Campus,
Prof. C.R. Rao Road, Gachibowli,
Hyderabad 500 046 (A.P.), INDIA.

5.2 Tenders shall be submitted in 2-PARTS.

**PART-I
TECHNICAL BID**

TENDER DOCUMENT

FOR

**Supply, Installation, Testing and Commissioning of
Confocal Microscope**

TENDER # NIAB/GLT/06/2011



National Institute of Animal Biotechnology
Visiting Scholars House, Lake View Guest House,
University of Hyderabad Campus, Prof. C.R. Rao Road,
Gachibowli, Hyderabad 500 046 (A.P.) India.

Sign of Bidder

PART-I TECHNO COMMERCIAL BID
PART-II PRICE BID

1. PART-I of the Tender must contain the following:
 - i) Tender Document, **each page duly signed by the bidder** as token of acceptance. If any minor deviation is proposed by the bidder the same must be clearly indicated and enclosed as deviation list as Annexure but Tenders with significant deviations list may be liable for rejection.
 - ii) Copy of the bidder's price schedule but without prices.
 - iii) Earnest Money Deposit as indicated above.
 - iv) All necessary catalogues/technical literature, data as are considered essential for full and correct evaluation of offers.
 - v) Details of Installations of similar equipment in India:-
 - vi) Availability of number of trained support personnel, both application & service support.
 - vii) Compliance statement indicating yes/no as per the specifications
 - viii) The complete Technical Bid (Part I) to be signed and enclosed
2. All the above documents forming PART I of the Tender shall be kept in one envelope which shall be **SEALED** and subscribed with as **PART- I: TECHNO COMMERCIAL BID – TENDER ENQUIRY NO: NIAB/PUR/GLT/06/2012 DUE ON: 28.03.2012 at 3.00pm.**
3. PART-II of the Tender shall contain only the Price schedule with prices (both in words and figures) (Departure to the price schedule format may render the Tender liable for rejection. Price Schedule format in PART-I and PART-II must be identical, except that PART-I should not contain any price figures).
4. The price bid forming PART-II of the Tender shall be kept in another envelope which shall also be sealed and superscribed with **PART-II: PRICE BID – TENDER ENQUIRY NO. NIAB/PUR/GLT/06/2012 DUE ON: 28.03.2012 at 3.00pm.**

Sign. Of Bidder

5. THE ABOVE TWO SEPARATE SEALED COVERS, ONE CONTAINING THE PART-I TECHNO COMMERCIAL BID ALONG WITH THE EMD AND THE OTHER CONTAINING THE PART-II PRICE BID SHALL BE KEPT TOGETHER IN ANOTHER COVER WHICH SHOULD ALSO BE SEALED AND SUPERSCRIBED WITH FOLLOWING DETAILS:

TENDER ENQUIRY NO: **NIAB/PUR/GLT/06/2012**

DUE ON: **28.03.2012** at 3.00pm.

THIS ENVELOPE SHOULD BE ADDRESS TO:

**Officer-on-Special Duty,
National Institute of Animal Biotechnology,
Visiting Scholars House, Lake View Guest House,
University of Hyderabad Campus, Prof. C.R. Rao Road,
Gachibowli, Hyderabad – 500 046 (A.P.) India.**

AND SHOULD BE SUBMITTED ON OR BEFORE 3.00 PM OF **28.03.2012.**

6. TENDER OPENING:

- i) THE TECHNO COMMERCIAL BIDS WILL BE OPENED AT **4.00 P.M ON: 28.03.2012 AT NIAB** IN THE PRESENCE OF THE BIDDERS OR THEIR REPRESENTATIVE WHO WISH TO BE PRESENT.
- ii) The Techno-commercial evaluation of the bids will be conducted by NIAB at which time the bidders must be prepared to make a presentation on their bids, if asked to do so by **NIAB.**
- iii) The Price bid of the acceptable techno commercial bids will be opened after the technical evaluation by **NIAB.**
- iv) All queries/clarifications prior to submission of Tender shall be addressed to:
**Officer-on-Special Duty,
National Institute of Animal Biotechnology,
Visiting Scholars House, Lake View Guest House,
University of Hyderabad Campus, Prof. C.R. Rao Road,
Gachibowli, Hyderabad – 500 046 (A.P.) India.**

7. DELIVERY:

- i) The items as per the purchase order shall be delivered at NIAB laboratory within the mutually agreed delivery schedule from the date of L/C establishment by NIAB issue of Purchase Order

Sign. Of Bidder

- ii) The supplier shall be required to depute their authorized representative(s) at their expenses to NIAB site in India for installation of the equipment and test performance of the equipment as per the specifications in the Purchase Order.
- iii) Please make appropriate commitments in writing that the instrument model being offered is current and is not likely to be obsolete within the next couple of years and that spare parts will be available for it for at least seven years after the installations.
- iv) The Installation of the equipment is deemed complete only after all the sub-units of the main equipment such as the computers/ printers / UPS / Software etc., is installed and tested as per the specifications in the offer/ brocher / purchase order and demonstrated to the satisfaction of the end user.
- v) Timely completion of the supplies as specified in the purchase order shall be the essence of the contract. If the supplier fails to do so, OSD, NIAB may resort to the following steps:
 - a) Levy of liquidated damages @ 1% of the purchase order value per each fortnight beyond the specified date of delivery subject to maximum of 10% of the Purchase Order value. This is subject to the OSD, NIAB accepting the delay in the delivery of stores at his discretion.
 - b) Resort to such risk purchase at the cost and risk of the supplier without notice as the OSD, NIAB may deem fit.
 - c) Cancel the contract partially or wholly, including the forfeiture of Security Deposit.

8. PRICE:

- i) TENDERERS SHOULD FOLLOW THE PRICE SCHEDULE FORMAT as detailed in the price schedule (part-II)
- ii) Instrument operation manual, software manuals and a detailed service manual with all circuit diagrams, parts list and troubleshooting guide should be supplied with the system in case of order.
- iii) The prices quoted must indicate the Ex-works value, FOB value and CIF/CIP value to enable the purchaser to take decision at his discretion.

Sign. Of Bidder

- iv) The prices shall remain firm and fixed till execution of the contract. The prices quoted must contain the break-up of unit prices and such prices shall include all essential tests for acceptance of the stores as specified in the technical specifications.
- v) The quoted price shall be deemed to include all taxes and duties/fee etc, that will have to be paid in the country of origin/export by the bidder.
- vi) The price details should not appear in any other page except in the PRICE BID (PART II).

9. PAYMENT TERMS:

- i) Letter of Credit will be opened for Total cost of the equipment with **85%** to be released against the material receipt and the remaining **15%** would be released after successful Installation, testing & commissioning acceptable to NIAB against the submission of a bank guarantee for **15%** of the Purchase Order value valid for a period of one year against the performance of the machine or the warranty period whichever is later.
- ii) All banking charges outside India to Beneficiary's account

10. VALIDITY OF TENDER:

The Tenders should be kept valid for acceptance for a period of 90 (three months) calendar days from the Tender due date.

11. DECLARATION:

The bidder should give a declaration in the following format

I/We _____ have read the entire terms and conditions of this Tender document and we are fully agreeable to the terms and conditions mentioned herein.

Signature of the Bidder
With seal

This Tender Document # NIAB/PUR/GLT/06/2012

Issued to: _____

Date: _____

Signature of the Issuing Officer,
NIAB

SPECIFICATIONS

6. CONFOCAL MICROSCOPE SYSTEM

Quantity 1.No.

- The system should be of latest state of the art with complete spectral confocal technology for fixed & live cell imaging, fluorescence recovery after photo-bleaching (FRAP), Fast FRAP, Fluorescence resonance energy transfer (FRET), Photo activation/conversion, colocalization and time series, etc.. The system should be upgradable to multi-photon.

The system should consist of:

Microscope and related accessories:

- Fully Motorized Inverted/Upright Fluorescence Research Microscope including programmable motorized X-Y scanning stage with motorized 6Xnosepiece and motorized 6X-8X FL filter turret or better.
- Universal sample holders for slides, 35/60 mm Petri dish or similar chamber for multipoint, tile and mosaic imaging.
- 12V 100W halogen illumination for transmitted light, 120W metal halide illumination for Fluorescence.
- High resolution Z-focus drive with step size of 10-20 nm or better, in addition to Z motorisation of microscope, please also quote Galvo/piezo stage.
- High resolution Plan Apochromat objectives 10x/0.4, 20X/0.7-0.8 , 40x/0.9, 60/63x/1.40oil, & Plan Apo 63x/0.90 or better water dipping objective for live cell imaging and Plan Apo 100X/1.4NA oil immersion lens.
- Automated DIC for all objectives and Fluorescent band pass filters for DAPI, GFP, YFP, RFP, Rhodamine.

Laser scanning and detection unit:

- High sensitive built-in spectral detectors for simultaneous imaging of at least 5 fluorochromes or higher, including high sensitivity detectors (minimum 2) having QE 45-50%.
- The scanner unit should be included with sensitivity improving components like spectral recycling/prism/hybrid photon technology with suitable dichroic combinations etc.
- The Scanner should have real multiple ROI scan capability including fast scan for bleaching, normal scan for Imaging.
- Scanning resolution: Up to max of 5 to 6 K or better, continuously adjustable.
- Scanning speed: 14 x 12 speed stages, up to 12.5 frames/sec with 256x256 pixels; min of 5 frames/sec (preferably better) with 512 x 512 pixels (max. 70 frames/sec 512 x 32); min 0.38 ms for a line of 512 pixels or equivalent; up to 4000 lines/second or better
- Scanning zoom: 0.5 x to 40 x, variable in increments of 0.1 or better.
- Scanning rotation: Freely rotatable around 180°-360°, variable in increments of 0.1°; free xy offset
- Scanning field: Field diagonal of 18-20 mm in the intermediate image plane, homogeneous illumination of image field

- Pinhole: Motorized master pinhole, diameter continuously adjustable
- Data depth: 8-bit, 12-bit or 16-bit selectable, if available, up to 37 channels simultaneously detectable
- Detection One or two confocal channels (reflection/fluorescence), one standard external transmitted-light channel with DIC capability, each with high-sensitivity PMT detector, spectral increment 1 nm
- Laser Module with control electronics and acousto-optic tunable filters (AOTF) for all lasers including multiline Ar 458/488/514nm, HeNe Laser (543/594/633 nm), DPSS Laser (561 nm), blue diode (405 nm) or relative colour lasers.
- All lasers should excite simultaneously.

Control computer:

- High-end PC with ample RAM and hard disk storage capacity; ergonomic high-resolution 16:10 LCD-TFT flat-panel display, Dual layer DVD writer, Ethernet, USB 2.0, Window operating system with multi-user capability.
- As per instruments requirement, suitable online UPS (if available, inbuilt UPS) with minimum backup 60 min should be supplied.

Confocal imaging and control software:

- Software should be capable of controlling all motorized functions of microscope, digital camera, scan head, lasers including AOTF, image acquisition & processing.
- System self-test calibration and testing tool for the automatic verification and optimal adjustment of the system
- Image acquisition for 3D, 4D, Spectral Imaging, Time series etc including capability to separate bleed through in multichannel by spectral fingerprinting technique.
- Additional analysis software module for Advance 3D, dedicated FRAP, Fast FRAP, FRET, Co-localization with histogram analysis to be offered as standard.
- **Acquisition modes:** Spot, line/spline, frame, z-stack, lambda stack, time series and all combinations (xyz | t); online calculation and display of ratio images; averaging and summation (line / frame wise, configurable); step scan (for higher frame rates); smart acquisition setup by selection of dyes
- **Crop function** should be convenient for simultaneous selection of scanning areas (zoom, offset, rotation)
- **Multitracking:** Fast change of excitation lines at sequential acquisition of multicolor fluorescence for reduction of signal crosstalk
- **Lambda scan:** Parallel or sequential acquisition of image stacks with spectral information for each pixel
- **Image analysis and operations:** Co-localization and histogram analysis with individual parameters; profile measurements on any line; measurement of lengths, angles, surfaces, intensities etc; operations: addition, subtraction, multiplication, division, ratio, shift, filtering (low pass, median, high-pass, etc; also customizable)

- **Image archiving, exporting & importing:** Functions for managing of images and respective recording parameters; multi-print function; over 20 file formats (TIF, BMP, JPG, PSD, PCX, GIF, AVI, Quicktime, etc) for export.
- High resolution monochrome cooled CCD camera, 2/3" Chip with 1.4 million net effective pixel resolution controlled by the same confocal software for multichannel, z stack, time series imaging. The camera should have broad dynamic range of simultaneous capture of dark (unlabelled) or bright (fluorescent labelled) areas in the specimen.
- The extremely high scanning frequency should allow efficient documentation of 3D moving objects at full camera resolution
- **Real-time electronics** Control of the microscope, the lasers, the scan module and other accessory components; control of the data acquisition and synchronization by real-time electronics; oversampling readout logic for best sensitivity; data communication between real-time electronics and user PC via Ethernet interface with the possibility of online data analysis during image acquisition

Service and training:

- A written contract of good after sales service and technical support should be provided.
- Periodic training/demonstration classes at least once in every 6/12 months to new users should be conducted.
- The Vendor should have a good service and application support backup.

Manufacture:

- Country of origin/manufacture product catalogue, specifications and certificates of calibration and inspection should be provided.
- Photocopy/computer print will not be accepted.
- All technical data should be supported with original product data sheet.

Spare-Parts:

Additional key spare parts should be included.

Relocation of the equipment:

These equipments will be initially installed at NIAB temporary facility. When the new complex is ready, these equipments need to be relocated. Financial quoted for the equipment shall be either inclusive of exclusive of relocation charges. If the relocation charges are not included in the financial bid, a separate quote must be provided for relocation of the instrument including dismantling, transportation, installation and calibration.

Warranty:

The entire instrument system and software should be provided with a 5 year comprehensive warranty from the date of completion of satisfactory installation. The warranty should include regular maintenance, parts and labor. The warranty should also include all software upgrades. The maintenance costs for the entire system after warranty period should be stated.

Note:

- Bidder should give compliance statement point wise showing/highlighting items part number/serial number as quoted in their quotation for comprehensive technical comparison.
- Proof of compliance should be mentioned point wise in the catalogue/technical leaflets/literature/product catalogue in manufacturer website.
- Also optionally can quote patented/better technology for high efficiency imaging
- Other models with higher/better specifications can also be quoted.

PART-II
PRICE BID

TENDER DOCUMENT

FOR

**Supply, Installation, Testing and Commissioning of
Confocal Microscope**

TENDER # NIAB/PUR/GLT/06/2012



National Institute of Animal Biotechnology
Visiting Scholars House, Lake View Guest House,
University of Hyderabad Campus, Prof. C.R. Rao Road,
Gachibowli, Hyderabad 500 046 (A.P.) India.

Sign of Bidder

PART II

PRICE SCHEDULE

Sl.No	Description	Qty	Unit/Price (both in words and figures)	Total Price
1.	Supply, Installation, Testing and Commissioning of Confocal Microscope	1.No.		

Sign. Of Bidder