



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY

(संसद के अधिनियम द्वारा स्थापित केंद्रीय विश्वविद्यालय)

(A Central University established by an Act of Parliament)

कुल सचिव का कार्यालय/ OFFICE OF THE REGISTRAR

नपाम :: तेजपुर - 784028 :: असम

NAPAAM :: TEZPUR - 784028 :: ASSAM

SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2016-17/1019-A dated:-16.06.2016.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following equipment required for the DBT-U-Excel-NER project of Dr. Suman Dasgupta, Department of Molecular Biology & Biotechnology, Tezpur University.

List of Items with specifications:

FLUORESCENT INVERTED MICROSCOPE:

- **Contrasting methods:** Microscope should be equipped for Fluorescence, Bright Field and Phase Contrast modes with infinity corrected optics.
- **Microscope Frame:** Frame with high static rigidity, waterproof construction to block penetration of water inside the frame. The frame should be compact making it easy to fit in any work environment. Option of light path selector (different % of light reaching eyepiece and camera). Encoded Z focusing with Course and Fine knobs with travel range preferably more than 10mm.
- **Observation tube:** Wide field Binocular observation tube with 45 degree viewing angle, having Diopter adjustment.
- **Transmitted light:** Encoded transmitted light continuously variable luminance, adjustment of brightness, with field diaphragms. Transmitted light with 3300k -4500K (preferable white light); with inbuilt fast shutter, preferably LED for long life (approx 40000 hrs or more).
- **Eyepiece:** 10X eyepieces pair with minimum 22mm field of view.
- **XY Stage:** Manual XY stage with universal sample holder for well plate, flask, glass slide and petri-dish.
- **Condenser:** Encoded condenser with free working distances of 23mm or more. The Condenser base should have 7-position disk or more to accommodate light rings, all transmitted light contrasting methods should be possible (BF, PH, DF, Pol, DIC). Condenser should include manual aperture diaphragm, fixed mount for interchangeable condenser heads, possibility to mount manual polarizer, possibility to mount manual 3-fold filter holder. Magnifications range should be 1,25 up to 100x.
- **Objective nosepiece:** Encoded 6/7 position nose piece for easy operation. Features must be high-grade smooth operation.
- **Objectives:** High Resolution and High Contrast, with good cover glass Correction.
 - Plan Fluorite Phase objective 10X/0.25NA or better.
 - Long Working Distance Plan Fluorite Phase objective 20X, NA 0.40 or better.
 - Long Working Distance Plan Fluorite Phase objective 40X, NA 0.60 or better.
 - Plan Fluorite objective 100X NA 1.25 or better.
- **Fluorescence:** Motorized fluorescence filter turret with 6 or more positions. Adjustable aperture and field diaphragms. Should have body inbuilt 4 / 5 position light intensity filter wheel / slider. High power LED based light source for fluorescence with min. 25000 hrs. Light source must work in both white light mode and individual 3 or more wavelengths with buttons / software control. Should have minimum 35mW in UV, 440mW in Blue & 400mW in Green / Yellow / Red colour range. Provide necessary control pad with interface for USB & Trigger, power adaptor & microscopy adaptor. The light source should be controlled by same imaging software.
- **Fluorescence filters:** Fluorescence filters of high transmission narrow band for DAPI/Hoechst, FITC/GFP/Alexa 488 and TRITC/Rhodamine/PI/Alexa 594. All filters should not have any pixel shift.
- **Dedicated Camera :** Should be equipped with high resolution fully scientific grade dedicated digital cooled color CCD and monochrome CCD camera with 2/3" CCD chip size or better and a minimum of 5 million pixels with better pixel size and universal imaging facility for fluorescence and bright field application.
- **Shutter:** If the shutter system for time lapse single and multiple channel imaging is not present in control unit, should be quoted separately.



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- **Advance Image Analysis Software:** Should be provided with advanced image acquisition and analysis software having camera control and control of all function of motorized systems of the microscope. Should have automated multi-channel fluorescence capturing.
 - Should have capabilities related to display and image processing like, scale bar, pseudo-colouring, image overlay, merge channels, Z-series image display, deconvolution, extended depth of focus etc.
 - Should have measurement capabilities like, measurement of colocalization, intensity measurement, area measurement, automated object measurement, multi channel acquisition, time-lapse etc. Measurement of cell motility is preferred.
- **Computer:** One very high end computer, including high resolution large monitor, with high configuration to run the above system smoothly should be included in the offer. Computer should be configured in such a way that it can easily handle any upgrade in the microscope and software in near future.
- **UPS:** A suitable UPS to provide at least 30 min of power back up to the microscope, control unit, and computer should be provided with the machine.
- **Accessories:** one non-vibrating table to accommodate all the components of the microscope and one 1.5 ton air conditioner should be quoted as accessories.
- **Warranty:** Whole system including computer should carry warranty for minimum 2 years.
- Quotation price should include delivery of the instrument till Tezpur University, Napaam, Assam - 784028, India. University will provide required documents, but clearing, handling and delivery at Tezpur University has to be borne by the supplier. Free installation and demonstration should be arranged by the supplier.

GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.
2. **The rates should be preferably quoted in Indian Rupee and FOR Tezpur University, Napaam basis. Charges for clearing and transportation should be incurred by the supplier.**
3. *Quotations should be accompanied by i) An EMD (in the form of Demand Draft/Call Deposit/TDR) of ₹. 5000/- (Rupees Five Thousand) only drawn/pledged in favor of Registrar, Tezpur University, payable at Tezpur. **No request for consideration of earlier deposited EMD will be considered.** ii) A non refundable application (quotation) fee of ₹.1000.00 (Rupees One Thousand) only have to be paid only by Demand Draft drawn in favour of Registrar, Tezpur University payable at Tezpur.*
4. The rates should be exclusive of taxes and applicable tax % should be clearly indicated.
5. Quoted rates should be valid at least for a period of 01 year.
6. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
7. The system must be installed at the laboratory, and after installation a basic training must also be provided by the supplier or their Indian counterpart without any additional costs.
8. All the quotations must be accompanied with supporting documents and / or literature.
9. Demonstration may be sought from the vendors for authentication of quoted specification.
10. Details of availability of after sales support will have to be furnished. After sales support directly from manufacturer and from Assam (Guwahati / Tezpur) will be preferred.
11. The University is exempted from paying Custom and Excise duty.
12. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
13. Warranty/Gurantee period should be specifically mentioned in the quotation.
14. No Advance payment will be made. However, for foreign supplier, advance payment will be made either by FDD/Wire Transfer/LC. In such cases 10% Performance Bank Guarantee should be submitted before issuing FDD/Wire Transfer/LC, covering the warranty period.
15. Performance Bank Guarantee also has to be submitted for Major equipments of Indian origin, covering the warranty period.



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16. Items of Foreign origin should have Insurance up to installation on site.
 17. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
 18. Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur
 19. Applications for release of EMD should be submitted to the Registrar/ Deputy Registrar.
 20. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
 21. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University within 21 days from the issue of the notice. If posted/couriered, should be reached within 21 days from the issue of this notice addressed to "The Deputy Registrar (GA), Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the the envelope/packet containing the quotation.**

Sd/- Joint Registrar
Tezpur University