

# UNIVERSITY OF GOUR BANGA

(Established under West Bengal Act XXVI of 2007)

Prof. Sadhan Kumar Saha  
Registrar (Addl. Charge) & Convener,  
Tender & Purchase Committee.

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P.O.: Mokdumpur, Dist.: Malda, West Bengal – 732 103

Memo No. 1042/UGB/R-18

Dated:- 11.09.2018

## NOTICE INVITING QUOTATION NO.:- 06/Reg./UGB/T&P/2018-19 OF THE REGISTER, CONVENER, TENDER PURCHASE COMMITTEE, UNIVERSITY OF GOUR BANGA, MALDA.

The Register, Convener, Tender Purchase Committee, University of Gour Banga, invites sealed Quotations from the reputed vendor(s) / dealers / distributors for **Supply of Permanent Equipment for the department of Botany.**

Sl. No	Name of the Item	Earnest Money (Rs.)	Price of Tender paper & others papers	Period of Completion
01	Supply of Permanent Equipment for the department of Botany	02% of quoted rate	NA	15 days

## SPECIFICATION OF EQUIPMENTS

Sl. No.	Name / Type	Description	Qty.	Maximum Amount (Rs.)	Quoted Amount (Rs.)
1	Trinocular Microscope	Full Koehler, trinocular Laboratory microscope with microscope with microscopy camera and optical Interface.	01 pc	240000.00	
2	Low Temp. Incubator / Plant Growth Chamber	Humidity cabinet Delux with cooling	01 pc	200000.00	

### Technical Specification of Equipments:-

#### (A)- Specifications of Upright Phase Contrast Microscope with Camera:-

##### Microscope Stand:

The Microscope should have Right Hand Stage Standard Stand with 4 position nosepiece, Universal Power Supply plus USB Power with integrated connector, mechanical stage with non extending rack and slide holder, **Pre-Centered and Pre-Focused Abbe condenser** with **slot for Phase and Darkfield Sliders** and labels for matching objective magnifications, **LED illumination**, 45 degree Tube with Integrated locking mechanism for eyepieces.

Eye Pieces:

The Eye Piece should be 10X/20 eyepiece w/eye guard

##### Phase Objectives:

Objective Plan 10X/0.25 NA

Objective Plan 20X/0.40 NA

Objective Plan 40X/0.65 NA

Objective Plan 100X/1.25 NA OIL

## **Camera:**

- Microscope Camera with Software
- WiFi Mode for Wireless connection to Mobile Devices using Leica Apps or connection to WiFi enabled PC using **Leica Imaging Software**
- **HD Mode for Live image 1920x1080p directly to an HD display or for image capture to SD card** (No PC required)
- PC mode for use with PC and Leica Imaging Software
- Network mode for direct connection using Ethernet cable
- Fits Leica Compound microscopes in an integrated way between the viewing tube and the stand
- Light distribution: 50% visual / 50% camera
- Interfaces: **USB2, HDMI, Ethernet**
- Maximum Image **size 5.0 Mpixel** (2592 x 1944)
- Complete camera kit contains **Camera Module, USB2 cable 1.8m, HDMI cable 2.5m, Leica imaging software** for basic image capture and simple measuring and annotation applications, Quick start guide, Safety Booklet

## **(B)- Specifications of Low. Temp Incubator / Plant Growth Chamber:-**

1. Plant Growth Chamber with an aesthetic design with most updated technology and software.

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  2. Micro-processor PID based Controllers with Programmable Up to 9 steps for each profile to control each parameter temp, humidity & illumination individually.
  3. Inbuilt Data login (minimum 1000 data) with computer Interface for data backup and PC Software windows based.
  4. Audio visual alarm for all three parameters of light, temp & humidity with manual set option for the limit.
  5. Programmable auto simulation of all parameters (Light, Temp & Humidity) same as like environment; inside the working chamber to grow the plants in like nature.
  6. Very easy user friendly Programme for complete control of all/any parameter during the experiment.
  7. Reliable, Simple calibration and auto-tuning functions, controller should have inbuilt memory to retain the same programme after shutdown/power failure.
  8. Power backup system to read out the running experiment parameters during power fail.
  9. Specially designed compressor technology to get stable humidity in respect to the set temperature.
  10. Five Step illumination is controlled through solid state cyclic timer to control the photoperiodic cycle of the chamber 24x7 with microprocessor based programmable automated day-night natural simulation system. The result is a broad based light spectrum ideally suited for plant growth. The optional lighting packages available include higher intensities as well as programmable closed-loop lighting control.
  11. High accuracy with advance technology for humidity and de-humidity control.
  12. The triple walled back of our Plant growth chambers are provided with two/Four/Six/Eight (size specific) air circulation fans for uniform maintenance of the temperature & humidity throughout the chamber.
  13. High Temperature protection to protect the samples by auto shut down the unit.
  14. Temperature range 10°C to 70°C  $\pm 0.1^\circ\text{C}$  accuracy; with humidity 40% to 95%  $\pm 5\%$
  15. Preferable Indian technology (with Kolkata based service centre) which ensure better after sales service. Quoted Brand must be ISO certified.
  16. Illumination up to 10 thousand LUX .
  17. Working chamber volume not less than 170lit.
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18. Adequate no of installation in Wide range of customer in various prestigious research organizations along with their installation certificates.

**Terms & Condition:-**

1. The University of Gour Banga reserves the right to amend or cancel the scope of the job as well as to cancel or modify the terms and conditions of the tender without showing any reason. In this regard, the decision of the Vice Chancellor is final.
2. Intending bidders have to submit the tender document directly to the Convener, Tender & Purchase Committee, University of Gour Banga, Malda with **demand draft only** issued from any nationalized bank in favor of “**University of Gour Banga**”, payable at **Malda**. No interest shall be paid on EMD.
3. Payment will be made on account pay in cheque on the basis of actual measurement on finish work.
4. Taxes shall be deducted as per Govt. norms.
5. Documents like PAN, GST registration / enrollment certificate, Current GST return, Professional Tax, Trade License, 3 years IT Returns etc. are to be submitted with the tender paper.
6. The University of Gour Banga reserves the right to amend or cancel the scope of the job as well as to modify the terms and conditions of the tender.
7. The number of Items may increase or decrease by the demand/decision of the authority of UGB.
8. Bidders must have credential proof of similar nature of work for the purpose the participated otherwise submitted quotation will be rejected.
9. If any agency submits fraud or false documents, the university has all the rights to take action against the agency.
10. Agreement be made between successful bidders and the University Authority
11. Damage to goods or any other loss due to accident etc. during transit shall be the Responsibility of the supplier
12. EMD will be released after expiry of one year from the date of supply.
13. Price should not excess MRP/Latest-price-list of the manufacturer and should be including of all taxes.
14. Quotations shall be submitted in favour of “The Registrar (Addl. Charge), University of Gour Banga, Mokdumpur, Malda, 732103.
15. Supplied items must be warranty 1 year.

**16. Date & Time Schedule:**

Sl. No.	Particular	Date & Time
01	Last date & time of submission of quotation	24.09.2018 up to 02.00 P.M.
02	Tentative date & time of opening of quotations	25.09.2018 up to 02.00 P.M.

*Sd/-  
The Convener,  
Tender & Purchase Committee,  
University of Gour Banga,  
Malda - 732103*

