



WEST BENGAL STATE UNIVERSITY

Berunanpukuria, Malikapur Barasat

24 Parganas (North), Kolkata - 700 126

Phone : (033) 2524 1975 / 1976 / 1978 / 1979 Fax : (033) 2524 1977

Ref. No : WBSU/Reg/NIG/Zoology/45/2020-21

Date : 17.05.2020

Notice Inviting Quotation for the Dept. of Zoology.

The University intends to invite rates through sealed quotations for supply of the following instrument(s) for the Department of Zoology, WBSU from interested agencies or parties or suppliers or distributors or reputed manufacturers (will be procured from sanctioned project fund of Prof. Chiranjib Pal, Dept. of Zoology). The quotations must be submitted within fifteen (15) days of publication/date as undersigned of 'Notice Inviting Quotation' in the University website.

Details of Items/Specifications:

Sl No	Item/Instrument Specifications	Quantity Required
1	<p>Technical Specification for Nano cum standard volume Spectrometer for quantification of Biomolecules</p> <ul style="list-style-type: none">• Compact UV – VIS spectrometer to quantify undiluted nucleic acids at nanolitre volume ($<2 \mu\text{L}$), other biomolecule analysis using standard volumes (50 μL to 4ml)• Control panel should be inbuilt with the system.• Must have reference beam (with or without sample)• Light Source must be Xenon flash lamp• All sample volume should be read in the same light path only• Cuvette shaft should have lid• Receiver must be: CMOS photodiode array• Wavelength range: 200 nm to 830 nm• Wavelength Selection: Method-dependent, freely selectable• Must have spectral zoom facility to view and analyze the peak clearly• Spectral bandwidth: $\leq 4 \text{ nm}$• Should have no movable parts inside• Wavelength increment: 1 nm• Pathlength 2mm, 10mm, 1mm• Path length must be defined (not corrected or auto ranging)• Systematic wavelength error: $\pm 1 \text{ nm}$• Random wavelength error: $\leq 0.5 \text{ nm}$• Photometric measuring range: 0.0 to 3.0 A at 260 nm• Photometric reading accuracy: $\Delta A = 0.001$• Random photometric error: ≤ 0.002 at $A = 0$, ≤ 0.005 (0.5%) at $A = 1$• Systematic photometric error: $\pm 1 \%$ at $A = 1$• Sample volume: 1.5 μL to 4ml• Must have inbuilt methods for :<ul style="list-style-type: none">• Absorbance with one or more wavelengths, scans• Nucleic acids, Proteins, OD 600, dye labeling• Evaluation via factor, standard and calibration curve• Dual wavelength with subtraction and division evaluation• Must have method dependent evaluation for:<ul style="list-style-type: none">• Absorbance, concentration via factor and standard• Concentration via standard series using• Linear regression, Nonlinear regression with 2nd and 3rd degree polynoms• Spline analysis• Linear interpolation (point to point evaluation)	1

	<ul style="list-style-type: none"> • Absorbance allocation via subtraction and division • Ratio 260/280, 260/230, molar concentration and total yield for nucleic acids • Frequency of incorporation of Cy3, Cy5 dyes and labeling density • Spectral zoom and peak evaluation for scans • Modification of time frame for regression evaluation • Display: 5.7" VGA TFT display • Must have interfaces: USB master for USB stick; USB slave for connection to PC; • Must have serial RS-232 for thermal printer • Memory should be > 100 method programs on the instrument, > 1000 results with data, evaluation results and used parameters • Must have low power consumption < 20 W in the operation, 5 W with dimmed display • Small foot print ; W x D x H: 300 mm x 400 mm x 150 mm • Must be light weight: < 6 kg • CE certified • Should have good no. of installation base in and around Kolkata/Barasat • Direct service facility from manufacturer • Warranty for 2 years from the date of installation. 	
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Note:-

1) The University pays only 5% GST as per Notice from Ministry of Finance, Govt. of India vide Notification No: 47/2017- Integrated Tax (Rate) dated: New Delhi, the 14th November, 2017.

2) Must submit the Proprietary Certificate.

General instructions applied to the Instrument:

1. The final selection will be done on the basis of both quality and indexed prices.
2. The procurement of the instruments is subjected to the availability of funds.
3. The service of the instrument providers will be considered seriously.
4. The manufacturers should have direct 'service & technical support facility' in Kolkata/West Bengal.
5. The price of the instruments should be considered on the basis of the DSIR recognized institute.
6. Quotations must be addressed to The Registrar, West Bengal State University, Barasat, 24 PGS (N), Pin-700126 (with kind attention: Head, Dept. of Zoology, WBSU).
7. Hardcopy of the quotations also needs to be submitted to Prof. Chiranjib Pal, Dept. of Zoology.

The interested agencies or parties or suppliers or distributors or reputed manufacturers of the items in the list, are requested to quote their rates to **The Registrar (Officiating), West Bengal State University, Berunanpukuria, Malikapur, Barasat, 24 Pgs (N), Kolkata-700126**, for supply of the above listed items along with the following documents: copies of a) Valid Trade License, b) GST Registration, c) PAN Card, d) Income Tax filed in the last Financial Year, e) Clearance of Professional Tax. The rates should be all inclusive GST, Duties, Transportation Charges etc. and the warranty of items to be specified. Incomplete & conditional quotations received without proper supporting documents and after due date and time will be summarily rejected. The above quote should indicate firmly the type of tax to be charged.

The quotations along with necessary supporting documents in sealed cover super scribed "**Notice Inviting Tender for Project Instruments (C Pal, Dept. of Zoology)**" are to be submitted on or before 07.02.2020 up to 3 p.m. positively and will be opened on 10.02.2020 at 3:30 p.m. at WBSU. The University reserves the right for

cancelling any or all quotations without showing any reasons thereof. The quoted rates should be valid for three months from the date of opening of the quotation and the items are to be delivered to the University campus at Barasat. However, the University reserves right to terminate the notice inviting quotations for the above items at any point of time without assigning any reasons thereof.

Chiranjit Pal

Copy forwarded for information and necessary action, if any, to:

- 1) V.C.'s secretariat, WBSU
- 2) All members of the Purchase and Tender Committee.
- 3) University Website.
- 4) University Notice Board.
- 5) Registrar's Guard File, WBSU

K. Dutta
17/7/2020
Registrar (Officiating),
West Bengal State University

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West Bengal State University
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WBSU

Chiranjit Pal