



सर्वस्य विश्वमानम्

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/44/2020-21

Date : 17/07/2020

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>Part A: Specification of Gradient Thermal cycler</p> <ul style="list-style-type: none"> Thermal block must accommodate 96 x 0.2/0.1ml PCR Tubes & 71 x 0.5 ml PCR Tubes, PCR strips and 96well PCR plate Gradient PCR, capable of testing atleast 12 different temperatures simultaneously across a gradient range of 1 - 20° C System should have license for gradient application Should be able to use dome and flat top PCR tube Gradient technology should maintain identical ramp rate both in gradient and normal operation Temperature control range: from 4 °C to 99°C Lid Temperature range: 37 - 110 °C Block Temperature Accuracy should be : $\pm 0.2^{\circ}\text{C}$ Block Homogeneity: 20° C to 72° C: $\leq \pm 0.3^{\circ}\text{C}$, 95° C: $\leq \pm 0.4^{\circ}\text{C}$ Temperature control speed not less than 3 °C/s (heating) Temperature control speed not less than 2 °C/s (cooling) Should be able program lagging time as per the volume of sample Ramp rates should be adjustable from 0.1° C to 3.0° C to meet critical amplification conditions Lid should be flexible to adjust automatically (not manual setting) with the different PCR tube height. Block should keep temperature $\leq 20^{\circ}\text{C}$ unless the lid reaches to its maximum set temperature. Intuitive graphic programming with larger display Should have preprogrammed template for easy selection from 16 temperature protocols viz. 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, RT, RT-PCR, Incubation, Cycle sequencing, Touch down PCR, Hot Start PCR, Hot Start PCR manual, Large volume PCR, Nested cycles, reduced ramping. Time or Temperature increment with cycles in PCR program Auto Restart facility with user defined time interval Instrument status should indicate the step, cycle and remaining runtime during the run Should have two USB ports: for Protocol transfer, Self-test, USB, printer / mouse Should have log book function for error messages and new calibration Should have e-mail notification for easier documentation Should have power save standby function Should have the block option for PCR in slides Should have facility of Self-test dongle to check functionality of all 6 peltier elements 	1

<ul style="list-style-type: none"> • Calibration according to NIST (USA), DKD/PTB (Germany) UKAS/NPL (UK), UL/CUL listed • 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. 	1
Part B: Specifications for Rotors and adapters for existing Table top cold centrifuge	
<ul style="list-style-type: none"> • Fixed angle aerosol tight rotor for 6 x 50ml conical tube with adapter for 15ml and 5ml conical tube. Max. 	1
<ul style="list-style-type: none"> • Speed should be $20,100 \times g$ (12,000 rpm). Rotor and lid should be anodized aluminium but light in weight. 	1
<ul style="list-style-type: none"> • $< 3.3\text{kg}$, bore should be angled at 45°. Lid locking should be faster screw type.. 	1
<ul style="list-style-type: none"> • Fixed-angle aerosol tight rotor for 48 x 1.5-2 mL tubes to run at max speed $19,000 \times g$ (max. 13,000 rpm). 	1
<ul style="list-style-type: none"> • Rotor and lid should be anodized aluminium. Lid locking should be faster screw type. • Warranty for 2 years from the date of installation. 	1
Part C: Double stage CO2 regulator for existing CO2 incubator	

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. Package price (if less than the individual price) will also be entertained.
7. 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).
8. 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

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Chiranjit Pal