

OFFICE OF THE REGISTRAR
RAIGANJ UNIVERSITY



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Registrar

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Ref. No. F-101T/577/ Lab equip/chem/2020

Date 10-08-2020

NOTICE

Sealed Quotations are invited from the reputed vendors for purchase of Lab equipments in the Department of Chemistry at Raiganj University. The name and specifications of items are given below:

01. TEFLON LINED AUTOCLAVE HYDROTHERMAL REACTOR:

Specifications:

- Maximum operating temperature $\leq 240^{\circ}\text{C}$
- Safe temperature 200°C
- Working pressure $\leq 3\text{MPa}$ or 30 Bar
- Heating and Cooling rate $\leq 5^{\circ}\text{C}/\text{min}$
- Material: Shell made of high quality nonmagnetic 304 stainless steel and customized stainless steel jacket / autoclave of SS 316.
- Primary screw type cap for basic tightening
- Secondary cap at the top of the reactor for extra tightening to avoid leakage
- 2 types of SS gasket / lid in the reactor, one is on the bottom side and another is on top of the Teflon vessel chamber
- Capacity: 100 ml

02. ULTRASONICATOR BATH (DEDICATED USED IN SONOCHEMISTRY, DEGASSING AND INDUSTRIAL CLEANING:

Specifications:

- Optional heaters and resettable electronic timers
- Stainless steel materials SS304
- Powered by SMPS based MOSFET
- Automatic stabilization of present output power MOSFET/IGBT based output
- Tank capacity 5 Ltr.
- Timer will be set for 0 to 30 mins
- Digital temperature controller for bath : 0 to 80°C
- Ultrasonic power 150 W
- Frequency 40 KHz
- Power supply : AC 220 V/50 Hz

03. MAGNETIC STIRRER WITH HEATING:

Specifications:

- Top plate length: 16 to 18 cm.
- Top plate material ceramic glass
- Maximum temperature up to 340°C
- Heating temperature (control accuracy) 1°C
- Stirring paddle PTFE coated

- f. External temperature sensor with PT 1000
- g. Voltage stabilizer (supply 220-240 volts, 50 Hz single phase)

04. REFRIGERATED CENTRIFUGE ALONG WITH WIDE VARIETY OF ROTORS HEADS AND REDUCTION ADAPTORS WITH ANGLE HEADS OF POLYPROPYLENE TUBES OF VARIOUS CAPACITY:

Specifications:

- a. Stainless steel centrifuge
- b. Stainless steel centrifuge inner chamber with steel guard
- c. Programmable for true sample temperature
- d. Pre-cooling applicable
- e. Control communication digital
- f. Self diagnostic errors detection
- g. Brushless motor with frequency drive
- h. Inverter fault detection with auto shut down
- i. CFC and other related gas free refrigerated system
- j. Various programmes can be set
- k. Choice of both RPM and RCF settings
- l. Temperature display yes (°C and °F)
- m. Speed – preferred from 6000 to 20000 rpm, within any one of this range is acceptable
- n. RCF – 6000 to 15000 g
- o. Capacity – 400 to 1200 ml (within any range)
- p. Lowest temperature -8° C
- q. Noise ≤ 60 dB
- r. W X D X H – (700 to 800 X 500 to 600 X 400 to 500)
- s. Voltage stabilizer supply 220 to 240 volts, 50 Hz single phase
- t. Wide variety of rotors heads and reduction adaptors with angle heads of polypropylene tubes of various capacity of tubes of 100 ml, 50 ml, 25 ml, 15 ml, 1.5 ml, and 0.2 ml (only three rotors heads with angle heads of polypropylene tubes which are suitable for the instruments model be required)

Commencement Date of Quotation: 12.08.2020

Closing Date of Quotation: 19.08.2020

Documents to be submit:

- 1. Valid trade license.
- 2. Valid GST certificate.
- 3. PAN number.
- 4. Last three years Income Tax return

NOTE: University will award the Contract to the bidder whose quotation has been determined to be substantially responsive both technically and commercially. University also reserves the right to reject any or all the tender, wholly or partially, without assigning any reason thereof.


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Raiganj University

In communication to:

- 1. Dr. Kinkar Biswas, Assistant Professor Department of Chemistry, Raiganj University
- 2. Secretary to the Honourable Vice-Chancellor