



# COOCH BEHAR PANCHANAN BARMA UNIVERSITY

Vivekananda Street, Cooch Behar-736101  
Ph.: 03582-230218

E-mail :- [info@cbpbu.ac.in](mailto:info@cbpbu.ac.in)  
Website:- [www.cbpbu.ac.in](http://www.cbpbu.ac.in)

Ref. F27.V4/REG/972-18

Date: 21.07.2018

## TENDER INVITED FOR CHEMISTRY LABORATORY EQUIPMENT

Tender document can be downloaded from the University's website [www.cbpbu.ac.in](http://www.cbpbu.ac.in) and in such a case the bidder shall deposit the cost of tender documents along with submission of the tender, failing which his tender shall not be opened. The tender form complete in all respect should reach the Registrar, Cooch Behar Panchanan Barma University, Vivekananda Street, Cooch Behar – 736101, West Bengal, India, in duly sealed envelope super scribed with “**Chemistry Laboratory Equipment**” up to 2.30 p.m on 02.08.2018. The tender will be opened on the same day at 3.30 p .m by a committee in presence of tenderer who may wish to be present. The Registrar Cooch Behar Panchanan Barma University reserves the right to accept or reject any or all the Tenders without assigning any reason. Incomplete & conditional tenders are liable to be rejected.

Demand Draft/Pay Order of Rs. 2000/- (Two thousand only) drawn in favour of Cooch Behar Panchanan Barma University Payable at Cooch Behar, as cost of Tender Document.

Demand Draft/Pay Order of Rs. 30,000/- (Thirty thousand only) drawn in favour of Cooch Behar Panchanan Barma University Payable at Cooch Behar, as earnest money.

Sl. no	Specification	No of unit
1	1. Hot Air Oven: Outer body made of Mild Steel with suitable powder coated paint and inner chamber made of stainless steel. Temperature range 5°C above ambient to 250°C ± 2°C. Temperature controlled by PID controller with Digital indicator complete with two numbers of tray made of galvanized net with stainless steel lining .Inner chamber size: 18"(depth) x 18"(width) x 24"(height) with Blower for uniform temperature distribution. (Mechanical Convection Type) 1 year warranty.	1
2.	2. ROTARY VACUUM EVAPORATOR: 1 year warranty on all the non-glassware parts Driving: Encased induction motor with electronic speed control • Condenser : Vertical Double spiral glass coil • Drive Unit : Motorized drive unit • Rotation Speed : up to 280 rpm or better with microprocessor control. • Display : digital display of rotation speed and heating bath. • Speed display : Digital • Sample Flask : 1L, Pear type • Receiving flask : 1L, round style with ball joint. • Evaporating flask from 50-4000 ml can be used on the same joint adapter without additional connections. • 1 liter Evaporating Flask and Receiving Flasks should be provided in standard scope of supply. • Vacuum seal : PTFE seal (seal should also be covered in standard warranty period of	1







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	<p>three year)</p> <ul style="list-style-type: none"><li>Liquid Contact parts : Glass &amp; PTFE</li><li>Includes with Water Bath o Temp. control range: Ambient temp. to 210° C or higher. o Accuracy : <math>\pm 1^{\circ}\text{C}</math> o Bath features : Inner made of SS outer heat resistant cover o Bath capacity : should be between 4 to 5L o Temp controller: Overheating protector, auto cut off at 5°C secondary over temperature cut off 250°C</li></ul> <p>B. VACUUM PUMP:</p> <ul style="list-style-type: none"><li>Two stage Rotary pump made from chemically resistant material.</li><li>Suction capacity in m<sup>3</sup>/hour : 2.0 m<sup>3</sup>/h or better.</li><li>Vacuum pump should have ultimate vacuum of 7mbar or better.</li><li>Power input in watt : 180 • Supply voltage (V/Hz): 230/50.</li></ul> <p>C. CHILLER</p> <ul style="list-style-type: none"><li>Temperature range : -10°C to ambient</li><li>Precise temperature control of <math>\pm 0.2^{\circ}\text{C}</math></li><li>Flow: more than 6l/min</li><li>Fluid level indicator.</li><li>Low flow shut off and high/low temperature alarms</li><li>Digital display Note: All parts must conform to the Supply Voltage (V/Hz) of 230/50.</li></ul>	
3.	<p>3. Ultrasonic Bath: 1 year warranty</p> <p>Specifications :</p> <ul style="list-style-type: none"><li>Ultrasonic Generator: SMPS based Electronics</li><li>Frequency : 30 <math>\pm</math> 3 KHz</li><li>Transducer : PZT crystals (Morgan Matrac U.K. make) bonded on the base of the tank with wel bond technique.</li><li>Lid : Provided in SS 304</li><li>Temperature Control : By cut-off thermostat accuracy <math>\pm 3^{\circ}\text{C}</math> preset at 60 °C</li><li>Timer : 0-15 minutes timer is provided</li><li>SS Basket : Provided</li><li>Drain : Drain valve provided at the rear side of the tank</li><li>Electric supply : 230V/ 50Hz AC, ingle phase.</li></ul>	1
4.	<p>1. Double Distillation Unit: All Glass, with Quartz Heater, 'O' Ring Type Condenser Fixing arrangement, with Auto Cut-off, Horizontal Type, Made from Heat Resistant, Low Expansion Borosilicate Glass complete with stand, clamps etc. Output 1.5 liter/hour. 1 year warranty</p>	1
5.	<p>1. Compact Laboratory centrifuge- 8x15 ml. angle head with polypropylene tubes 4x50 ml. angle head with polypropylene tubes</p>	1
4.	Magnetic stirrer (500 ml) including 1 year warranty	2
5.	Magnetic stirrer (1 lit) including 1 year warranty	1
6.	Tarsons Vacuum Desiccator diameter (250 mm) 2 nos	2
7.	Pipette controller –Tarson	2
8.	Handypette Pipette aid Tarson (25ml)	1 pack
8.	Spectrophotometer (single beam) Microprocessor based visible spectrophotometer.	1
9.	Micro centrifuge tube-(1.5 ml)	1 pack







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10.	Acupipet Variable volume pipette (100-1000 $\mu$ l)	1
11.	Microtip-(100-1000ml)-1 pack	1 pack
12.	Schlenk Apparatus double line with 4 valve	5
13.	UV chamber with long, short and visible wave length	1
14.	TLC Chamber for preparative TLC-rectangular	1
15.	Glass manifold with 3 valves	1
16.	Abcsicic Acid (Cas- 21293-29-8) 500 mg	2
17.	Dichloromethane-25lit	2
18.	Acetone -25 lit	2
19.	Petroleum Ether 60-80 (25 lit)	2
20.	Ethyl acetate (25 lit)	2
21.	Acetone-d6-For NMR spectroscopy (10 ml)	2
22.	Acetonitrile-d3 for NMR spectroscopy	2

*a.p*

**Registrar**

REGISTRAR  
Cooch Behar Panchanan  
Barma University

