



Ref. F69.V2/REG/0881-20

Date: 16.09.2020

## TENDER NOTIFICATION

Sealed tenders are invited by the Registrar, Cooch Behar Panchanan Barma University from the reputed manufacturers/authorized distributors/dealers (who have the current authorization from the principal company) for the supply of items as under for the Department of Chemistry, Cooch Behar Panchanan Barma University:

### SPECIFICATION FOR TENDER

#### 1. High Speed Centrifuge with Rotor:

Max. Speed 20000 RPM or better

Max. RCF 37000 x g or more

Should have stepless speed regulator with zero start interlock

System should have Digital speed indicator, Dynamic brake and digital count down timer.

Imbalance detector with cutoff.

Safety lid interlock to prevent cover opening during centrifugation

Automatic rotor identification system.

Should operate at 230V, 50Hz AC main.

Angle Rotor 8 x 15ml with speed more than 18000 rpm

#### 2. Sonicator:

Probe Sonicator with Microcontroller based PID, Min. 10 nos of Programme can be set. Ultrasonic Power 150W, Ultrasonic Frequency: 30KHZ, Pulse set ON/OFF sec - 1-99. Temperature 0° C to 150°C Sample vol must be within 1 – 150ml. Tuning Manual and Frequency control. Sealed converter must be PZT. Probe material must be Titanium Alloys (Ti-6Al-4V) Ultrasonic Generator, Ultrasonic Cable, Temperature Sensor (PT100), Sealed Converter. Should come with Titanium probe.

Probe, Wrench Set, Support Stand and Sound enclosure must be supplied as standard. The instrument should operate at 230 V 50HZ AC.

#### 3. pH/ION Meter:

pH/ISE Benchtop meter capable of measuring pH, mV, relative mV (RmV), ORP or ion concentration (ISE) with temperature.

pH range -2.000 – 20.000, Resolution: 0.1/0.01/0.001, Accuracy + 0.002pH Temperature range -5.0°C to 105°C, Temperature range for mV 5°C to 45°C (ambient). Range mV & Relative mV ±2000.0 mV, Resolution 0.1mV. Range ISE 0.0001 to 19900 with selectable units of ppm, Molar, mg/L, %, ppb or none. Accuracy ±0.2 mV or ±0.05% of reading whichever is greater. Memory Non-volatile memory preserves data log, calibration log and meter settings. Methods 10 per channel with password protection. Isopotential point 7.000pH. Inputs BNC (pH, ORP or ion selective electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe), stirrer input (stirrer probe). Languages support English, Spanish, French, Italian, German and Chinese; Portuguese and Korean available with software update. Relative humidity range 5 to 85 %, non-condensing. Stability Selectable fast, medium, slow or Smart Stability setting; Selectable off or Automatic Smart averaging setting. Data points 2000 with date and time stamp. Certification/Compliance must include CE, TUV 3-1, FCC Class A. Splash proof rating IP54. Calibration point 1 point relative mV (RmV) mode, 1 point ORP mode. Calibration point ISE & pH should be 1 to 5. Channel 1. Data management should be Transfer single, range or all data points to printer or computer. The meter should have Advance ISE functions like Segmented (point-to-point) slope, non-linear selectable auto-blank, low concentration range stability. It should have provision for Stirrer that can be directly controlled by the meter. It should have selectable Backlight option. Output USB, RS232. Adaptor Universal 50-60 Hz, 100-240 VAC power adapter as well as 4 AA Batteries operated. Must include Ion plus sure flow combination and Half cell Membrane electrode, pH Electrode,



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electrode stand, universal power adapter, literature CD, printed quick start guide, computer interface cable and meter test certificate.

Replacement Warranty should be at least 3yrs for meter and 1yr for Fluoride Electrode.

1. **Gel Electrophoresis unit with power supply apparatus**

a. **Vertical Gel Electrophoresis unit**

Gel Size : 8 x 7 cm,

Principal Material : Acrylic

Upper Buffer Tank Dimension : 70 x 60 x 40 mm

Lower Buffer Tank Dimension : 130 x 60 x 50 mm

No. of Combs : 7 Well Teflon Comb 0.5 mm-1 No.

7 Well Teflon Comb 1 mm-1 No.

7 Well Teflon Comb 1.5 mm-1 No.

Teflon Spacers : 0.5mm Teflon Spacers 2 Nos.

1mm Teflon spacers 2 Nos.

1.5mm Teflon Spacers 2 Nos.

Connecting Cord : red and black (1 each).

No. of Platinum electrodes : red and black (1 each).

Lid : 1 No.

Leveling screws : 3 Nos.

Glass plate : Notched and Rectangular 2 sets.

Gasket : Fixed

Clamp and screws : 1 set.

b. **Power supply for Electrophoresis apparatus**

Digital power supply with 0 to 500 V and 0 – 500mA Variable with timer Constant Current ;  
Constant Voltage

**All the instruments should have their specification/catalogue in their respective manufactures' webpage.**

1. The quotation should be submitted in sealed covers, super scribing supply of chemicals, plasticwares, Glasswares, Labwares, small equipments etc under rate contract, Tender No., due date and sealed and addressed to the **Registrar, Cooch Behar Panchanan Barma University. Offers sent through Fax or E-mail will not be accepted.**
2. The sealed quotations are to be submitted along with valid Trade License, Income Tax return for 2019-20 (A / Y), PAN, GST and other necessary documents in the Office of Registrar, Cooch Behar Panchanan Barma University.
3. The offer should be addressed to the Registrar, Cooch Behar Panchanan Barma University, Vivekananda Street, Cooch Behar- 736101, West Bengal.
4. The Cooch Behar Panchanan Barma University reserves the right to amend or cancel the scope of the job as well as to modify the terms and conditions of the tender.

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5. In all case of disputes, the decision of the University shall be final and binding on you.
6. **The last date of submission is 28.09.2020**
7. University reserves the right of selection.
8. The items shall be supplied within a period of 30 days of receipt of the Purchase Order either directly or through dealer. (No deviation will be accepted in this regard). If the supplier expresses their inability to deliver the items within the above stipulated period, supplier must inform the University for the same with proper reasons/justifications therefore. If the reason does not seem to be satisfactory to the University authority, then University reserves the right to cancel the order/not accepts the ordered materials. Earlier delivery by the supplier is preferred.

**Delivery Location: Department of Chemistry, 1<sup>st</sup> Floor, Cooch Behar Panchanan Barma University, Vivekananda Street, Cooch Behar – 736101, West Bengal, India.**

9. Mere submission of proposal does not imply acceptance of the same at this end and the firms will be enlisted only after meeting the laid down qualifying parameters for which the decision of Cooch Behar Panchanan Barma University shall be final and binding on all parties.
10. The Cooch Behar Panchanan Barma University also reserves the right to test the chemicals and solvents/other consumables for their quality if it so desires.
11. DSIR Exemption Certification: Cooch Behar Panchanan Barma University possesses the privilege for availing the facility of procuring items at Concessional Customs Duty and without incurring any excise duty as per DSIR certification.
12. GST Exemption Certification: Cooch Behar Panchanan Barma University possesses the privilege for availing the facility of procuring items at Concessional GST as per the decisions taken by GST Council.
13. Statutory deduction for GST and other Government taxes will be made as per the law in force.
14. **Performance Security:** Successful bidder should deposit Performance Security money equivalent to the 10% of the order value in the form of DD/Bank Guarantee immediately before issuing purchase order from the University. Such security will be refunded after completion of the warranty period in normal case without any accrued interest. University may forfeit the Security Money in the event of the following circumstances:
  - i. Selected bidder withdraws the bid before expiry of its validity but after receipt of the Purchase Order.
  - ii. Selected bidder does not accept the order after issuing the same or fails to enter into a contract within validity period of offer.
  - iii. Selected bidder fails to supply the items within the scheduled time as specified in the Purchase Order
  - iv. If before expiry of the warranty period, the supplied items break down or do not function satisfactorily due to the cause related with the item itself or for its installation and not for any reason caused by the University Authority and the supplier denies to take the responsibility to make the supplied items in order.
  - v. In case of any false submission /statement by the bidder.
  - vi. In case of any refusal to abide by terms and conditions or refusal to enter into a written agreement as per prefixed terms and conditions.





# COOCH BEHAR PANCHANAN BARMA UNIVERSITY

Vivekananda Street, Cooch Behar - 736101, West Bengal, India, Ph. : (03582) 230218, Fax : (03582) 230833  
E-mail : info@cbpbu.ac.in Website : www.cbpbu.ac.in


OFFICE OF THE REGISTRAR

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FOR ANY CLARIFICATION REGARDING TENDER PLEASE CONTACT WITH COOCH BEHAR PANCHANAN BARMA UNIVERSITY E-MAIL ID – INFO@CBPBU.AC.IN

[TENDER FEE: Rs. 1000/- (RUPEES ONE THOUSAND ONLY), NAME OF THE A/C: COOCH BEHAR PANCHANAN BARMA UNIVERSITY, SAVINGS ACCOUNT NUMBER: 32741316141, IFSC CODE: SBIN0000058]

  
REGISTRAR  
COOCH BEHAR PANCHANAN BARMA UNIVERSITY  
VIVEKANANDA STREET, COOCH BEHAR – 736101

*Registrar*  
Cooch Behar Panchanan Barma University