



Ref. F69.V2/REG/0879-20

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 Physics, Cooch Behar Panchanan Barma University:

Sl. No	Description of Items	Quantity
1	To calibrate the given condenser and to determine the values of unknown resistance and capacitance	1
1.01	Requirement : a) Cathode Ray Oscilloscope( USB supported)	
2	Determination of e/m ratio using a magnetron	1
2.01	Make e/m Experiment Setup, The experiment done by measurement of electron charge to mass ratio based upon Thomson's method. The e/m tube is bulb-like and contains a filament, a cathode, a grid, a pair of deflection plates and an anode.	
3	Function Generator	4
3.01	Function Generator 3 Hz to 3 MHz, microcontroller base Sine, Square and Triangular	
4	Electron Spin Resonance Spectrometer	1
4.01	Make: SES, Model: ESR-105 or any other better quality (complete set)	
5	Muffle furnace with Temperature Controller	1
5.01	Make: Reputed brand Furnace : Temperature range up to 1200 deg C Heating rate : 0 to 10 deg /min (variable type) Temperature resolution : 1 deg C Temperature controller : Eurotherm EU 100 Stability : $\leq 1\%$ of range Heating element : SiC Power supply : Thyrester controlled Type of front loading size : 5 inch x 5 inch x 10 inch Overload protection : 100% Accessories: Alumina boat : Five (standard) Nos. Cup shaped Alumina Crucible : 50 mm size - 2 Nos and 100 mm size - 2 Nos Gas cylinder: Two in Nos. filled with Ar/N <sub>2</sub> gas (standard large) including two suitable pressure guages and pipes. Others : In addition, furnace will have a gas flow system of diameter of 10 mm with inlet controlled by a solenoid at a particular temperature, and an automated timer connected to time and temperature. Also other necessary accessories to be provided.	
6	Digital storage Oscilloscope-I	2
6.01	Make: Reputed brand.	





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	<p>Specification: 2 channels / Dual trace: Zoom Function; 50 MHz bandwidth: Automated, extended data logging feature; Up to 1 GS/s sample rate on all channel: Autoset and auto-ranging functions; 2.5 k point record length on all channel Built-in context-sensitive help; Advance triggers including pulse and line-selectable video triggers Multiple-language user interface; 34 automated measurements: 7 inch WVGA (800X480) Active TFT Color Display; Dual window FFT, simultaneously monitors both the time and frequency domains: USB 2.0 host port on the front panel for quick and easy data storage; Built-in waveform limit and trend plot testing :USB 2.0 device port on rear panel for easy connection to a PC; Dual channel frequency counter Accessories: 50MHz passive probes, Power Cord, Open Choice Desktop Software, and other related accessories.</p>	
7	<p>Measurement of the energy gaps of (i) silicon and (ii) germanium.</p>	1
7.01	<p>Experiment Setup for Study of Energy Band Gap and difuc, The setup consists of the following : 2 nos. 3 ½ digit DPM 2 nos. Fixed Frequency Oscillator Temperature Controlled Oven with Sensor, PNO-01 Sample – PNJ a) Cathode Ray Oscilloscope( USB supported)</p>	
8	<p>To study the characteristics curve of G.M. counter, and (a) to study the statistical fluctuation in cosmic ray background radiation, (b) to study the decay of activity of an artificially activated source, (c) to find out the gamma counting efficiency of G.M. tubes, (d) to study the gamma absorption in lead, (e) to study the beta absorption in Aluminum and hence to determine maximum beta energy.</p>	4
8.01	<p>It should consist of the following items :</p> <ul style="list-style-type: none"><li>a) 6 digit GM Counter with built-in Power Supply</li><li>b) End Window GM Detector (Halogen quenched)</li><li>c) Stand for End Window GM Detector</li><li>d) Aluminium absorber disc set. Experiment – to study the characteristics curve of GM Counter, to find out the gamma counting deficiency of GM tubes, to study the gamma absorption in lead, to study the data absorption in aluminium and hence to determine maximum data energy.</li></ul>	
9	<p>Desktop computer (Advanced)</p>	1
9.01	<ul style="list-style-type: none"><li>1. 10th Gen Intel® Core™ i7 8 Cores</li><li>2. NVIDIA® GeForce® GT™ 730 4GB GDDR5</li><li>3. Speed 4.9 GHz</li><li>4. RAM 16GB DDR4</li><li>5. MAX MEMORY SUPPORT upto 128 GB</li><li>6. Cache 16MB</li><li>7. 1TB SSD</li><li>8. 21inch/27inch LED monitor (HD)</li><li>9. Inbuild WIFI</li></ul>	





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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.
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 Physics, 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:





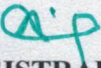
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- i. Selected bidder withdraws the bid before expiry of its validity but after receipt of the Purchase Order.
- ii. Selected bidder does not accept the order after issuing the same or fails to enter into a contract within validity period of offer.
- 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.

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