

UNIVERSITY OF CALICUT

(Purchase Division)

Re-tender Notice

31560/PURCHASE-ASST-B2/2017/Admn

03.12.2017

Sealed tenders are invited for the purchase of **Spectroscopy Amplifier for Neutron Detectors with HV Unit and NIM BIN power supply for Department of Physics, University of Calicut**. For details log on to www.universityofcalicut.info.

Tender No.	31560/PURCHASE-ASST-B2/2017/Admn	03.12.2017
Name of equipment	Spectroscopy Amplifier for Neutron Detectors with HV Unit and NIM BIN power supply	
Department to which the Purchases is made	Department of Physics	
Quantity required	1 (one)	
Last date & time of the receipt of the Tender	21.12.2017, 04.00 PM	
Date & Time of opening the Tender	23.12.2017, 11.00 AM	
Designation and Address of the officer to whom the tenders are to be sent.	The Deputy Registrar, Purchase Division, University of Calicut, Kerala PIN.673 635. Phone.0494- 2407130/160	

- Sealed competitive Tenders (in two cover System) are invited for the purchase of ONE Spectroscopy Amplifier for Neutron Detectors with HV Unit and NIM BIN power supply to the Department of Physics
- The Tender form can be had from the Purchase Division or can be downloaded from the University Website (www.universityofcalicut.info) for which separate chalan/DD should be enclosed.
- Sealed tenders with **cost of tender form Rs. 672/- and EMD Rs. 2900/-** drawn in favour of the Finance Officer should be submitted to the Deputy Registrar (Purchase) on or before 04.00 PM on 21.12.2017. The Tenders received late, will be rejected summarily.
- The rate quoted should be inclusive of all taxes, levies, transportation and installation charges. The base rate, GST and other charges if any, should be shown separately.
- The items shall be delivered within ten days after receiving the supply order. A Performance Security equivalent to 5% of the total value of the contract rounded to the nearest rupee should be submitted by the successful bidder for a contract value above Rs. 1,00,000/-. The EMD and Performance Security are returnable.

Specifications

Sl no.	Name of Equipment	Specification	Quantity
1	Spectroscopy Amplifier with NIM Bin Power supply and High Voltage Unit	<p>General Specification of Spectroscopy Amplifier Energy spectroscopy Amplifier, suitable for use with all types of detectors.</p> <p>Detailed specifications</p> <p>Gain Range: Continuously adjustable from 2.5 to 1500.</p> <p>Pulse shape selection switch.</p> <p>Integral Nonlinearity $\leq \pm 0.025\%$ from 0 to +10V</p> <p>Noise Equivalent input noise ≤ 5.0 V rms with 3 micro second shaping. Temperature instability gain $\leq 0.05\%$ per Degree C Bipolar zero cross walk $\leq \pm 3$ ns over 50:1 dynamic range</p> <p>Overload recovery: Recover to within 2% of the rated output from 200 overload</p> <p>Spectrum shift: Peak position shift $\leq \pm 0.05\%$ for Co-60 1.33 MeV, 3 μs shaping time Baseline restorer must be always active.</p> <p>Pulse pileup Rejector: Differential input for reduction of ground loop noise</p> <p>Specifications of NIM BIN Power supply</p> <p>Input Voltage: 230 V $\pm 10\%$ Frequency: 50 ± 3 Hz</p> <p>Regulation for ± 12V and ± 24V: $\pm 0.05\%$ for ± 6V: $\pm 0.1\%$. Stability: for ± 12V and ± 24V: $\pm 0.03\%$ for ± 6V: $\pm 0.6\%$. Current 1.2 Amp. (Approx) at 96 W DC output excluding 0.5 AMP for 230 V AC output. Noise & ripple: ± 12V and ± 24V: 3mV peak to peak for ± 6V: 10mV peak to peak Voltage adjustments: $\pm 2\%$ minimum range. Resetability: $\pm 0.05\%$ of supply voltage Also should have proper circuit protection under i) excess temperature ii) overload iii) short circuit iv) over voltage</p> <p>Specifications for High Voltage Unit</p> <p>Bias Voltage range: 0-2500 Volts Bias Voltage Polarity: Positive and negative internally selectable. Output current: 0-1 mA Ripple & Noise: 5mV (typical) peak to peak, 20 mV (Maximum) peak to peak.</p>	One

	<p>Output regulation: Less than 0.001% (typical)</p> <p>Calibration accuracy: within 0.25% of dial setting.</p> <p>Temperature stability: 0.005%/°C(50ppm) over 0-50degree Centigrade. Long term drift at ambient:</p> <p>Less than 0.01%/hr. Resettability: within 0.05%.</p> <p>Overload protection: For load current >1.00mA. Short circuit protection</p>	
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Terms & conditions:-

1. The bidder should mention the make and model of the product clearly in the bid.
2. The bidder should attach the technical data sheet of the product
3. The bidder should be an OEM or OEM authorised partner and the copy of the authorisation letter should be attached.
4. The bidder should have local presence with service centre in Kerala.
5. The rate quoted should be inclusive of GST and all other charges, if any. The base rate, GST charges and other charges, if any, should be furnished separately.
6. The bidder should have valid GST registration and the same should be furnished in the tender
7. All Kerala Government rules will be applicable to the tender.



Shajee. K.

Deputy Registrar(Purchase)
For Registrar

To: The System Analyst (to publish in the University website)

