

UNIVERSITY OF CALICUT  
(Purchase Division)

13415/PURCHASE-ASST-B2/2013/CU

Calicut University (P.O)

Dated 09.01.2017

**TENDER NOTICE**

Sealed tenders are invited for the purchase of various equipment (as per the specification noted below) to Department of Physics. The Tender form and General Conditions can be had from the Purchase Division or can be downloaded from the University Website: <http://www.universityofcalicut.info/>

Sealed tenders with cost of tender form (0.2% of the cost of tender rounded to the nearest multiple of 100, subject to a minimum of Rs.400+VAT @5%. and maximum Rs.1500+VAT @5% and EMD @1% of the total cost of the articles tendered for subject to a minimum of Rs.1500/- drawn in favour of the Finance Officer should be submitted to the Deputy Registrar(Purchase Division) on or before 28.01.2017.

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.

  
DEPUTY REGISTRAR (Purchase Division)  
For Registrar

To  
The System Analyst(with a request to publish in the University website)

Sl.No	Item	Qty	Specification
1	Planetary Ball Mill	1	<ul style="list-style-type: none"><li>• 50-500ml capacity bowl can be used It can reduce particle size within short time 4 bowls can be adjusted at a time</li><li>• Speed : 30 to 400 RPM</li><li>• Interlock for safe operation is inbuilt with system</li><li>• It is suitable for batch-type ultrafine grinding of hard, medium-hard, as well as soft and fibrous materials</li><li>• Complete in all respect</li></ul>
2	Conductivity Cell to fix Measurement Samples.	1	<ul style="list-style-type: none"><li>• Allow to fix square and circular shape of samples of bulk and thin films</li><li>• Capable of varying temperature up to 600<sup>0</sup>C</li><li>• Vacuum, inert atmosphere can be maintained by providing external inert gas.</li><li>• Four terminal method to measure parameters</li><li>• Allow to connect with Keithley resistance meter</li><li>• Complete in all respect</li></ul>
3	Thermal conductivity of solids	1	<ul style="list-style-type: none"><li>• Temperature up to 400<sup>0</sup>C</li><li>• Bench top model</li><li>• Digital display</li><li>• Permit measurement of square and circular shape of samples</li><li>• Accurate temperature gradient control and measurement</li><li>• Complete in all respect</li></ul>
			<ul style="list-style-type: none"><li>• Temperature up to 400<sup>0</sup>C</li></ul>

4	Seebeck Coefficient Measurement Setup	1	<ul style="list-style-type: none"> <li>• Heater and cooler combination to provide temperature difference Many number of temperature measuring points</li> <li>• Permit measurement of square and circular shape of samples</li> <li>• Accurate temperature gradient control and measurement</li> <li>• Digital display of parameters</li> <li>• Complete in all respect</li> </ul>
5	Michelson Interferometer set up	1	<ul style="list-style-type: none"> <li>• Should be able to perform determination of wavelength of a monochromatic light using He-Ne laser and Sodium vapor lamp</li> <li>• Quote should include combined price of all the accessories for the experiment including <ul style="list-style-type: none"> <li>i. appropriate He-Ne laser of minimum 2 mW with inbuilt power supply, It should be complemented with appropriate non corrosive Lab jack needed for the experiment.</li> <li>ii. Microscope objective(10X)</li> <li>iii. Object screen (translucent)</li> <li>iv. Sodium vapor lamp</li> <li>v. Telescope arrangement</li> </ul> </li> <li>• Extremely fine mirror control with the micrometer of least count of 0.0001 mm</li> <li>• Heavy base for high stability.</li> <li>• The mirrors and beam splitter must be flat up to <math>\lambda/8</math></li> <li>• Ratio of reflectivity to Transmittivity is 50:50</li> </ul>
6	BH Curve set up with CRO	1	<ul style="list-style-type: none"> <li>• The set up should be able to perform following teaching lab experiments: <ul style="list-style-type: none"> <li>a. To find coercivity and retentivity of an iron core.;</li> <li>b. To show the effect of varying voltage and frequency on hysteresis loop.</li> <li>c. To find hysteresis loop of an iron core.</li> </ul> </li> <li>• The kit should include all the appropriate accessories for completely carrying out the above experiment including <ul style="list-style-type: none"> <li>i. U core and I core</li> <li>ii. Appropriate CRO.</li> </ul> </li> </ul>