

## Appendix

Sr.No.	Detailed Description of the Item	Qty.
1.	<p data-bbox="304 338 1213 369"><b><u>Specifications for Ultraviolet-visible Absorption Spectrometer</u></b></p> <p data-bbox="304 412 1292 477">We intend to buy Ultraviolet-visible absorption (UV-Visible) spectrometer for our department with the following specifications:</p> <ul data-bbox="338 535 1292 1890" style="list-style-type: none"> <li data-bbox="338 535 1292 636">• The operative range of the instrument should be 190-1100 nm or better with full PC controlled and compatible with Windows XP or Windows 7/Windows 8 and 10.</li> <li data-bbox="338 667 1292 732">• The instrument should be true double beam with solid state detectors (with grating 1000/1200 lines/mm).</li> <li data-bbox="338 763 1193 795">• The spectral bandwidth should be either 1 nm or 2 nm or better.</li> <li data-bbox="338 826 1292 927">• The source should be Deuterium, Tungsten lamp or Xenon flash Lamps (Pre-aligned) with selectable switching facility. The lamp should be able to switch off if not required.</li> <li data-bbox="338 958 1005 990">• Stray light should be less than 0.05 % T or better.</li> <li data-bbox="338 1021 1292 1086">• The wavelength accuracy should be <math>\pm 0.2nm</math> or better. The repeatability should be <math>\pm 0.2nm</math> or better</li> <li data-bbox="338 1117 1292 1182">• Photometric noise of the instrument should be 0.00005 Abs or better at 1nm slit.</li> <li data-bbox="338 1214 1292 1279">• The system should contain automatic baseline correction, source and cell optimization facility.</li> <li data-bbox="338 1310 1292 1375">• The standard cell holder should have the height adjustment facility for low volume samples.</li> <li data-bbox="338 1406 1292 1543">• The spectrophotometer should have capability to upgrade for advanced transmission sample holder to hold materials such as glass, polymers, and films, providing a positive locating point for the sample that can be adjusted to accommodate a range of sizes and thicknesses.</li> <li data-bbox="338 1574 1292 1639">• PC monitor along with branded printer and scanner should be provided with spectrometer.</li> <li data-bbox="338 1671 1268 1702">• Spectrometer should have warranty for 3 years from the date of supply.</li> <li data-bbox="338 1733 954 1765">• The light source should have 3 years warranty.</li> <li data-bbox="338 1796 1292 1890">• Single Cell Peltier System with integrated control temperature and in-cuvette stirring must be quoted with spectrometer. Temperature range should be from 0 °C to 110 °C or better.</li> </ul>	<b>01 Unit</b>

	<ul style="list-style-type: none"> <li>• Another accessories like quartz cuvettes- A set of 2, Glass cuvettes- A set of 4 pairs, dust cover, operation manual, software manual, mains lead, USB lead for PC interface should be provided.</li> <li>• All the required parts for proper running the UV-visible spectrometer system like power cord, computer and computer interface, branded printer with scanner, software, quartz cell etc should be included with system.</li> <li>• Supplier should provide the user list for the same instrument from IITs and IISER.</li> <li>• The bidder must provide compliance point by point with technical proof.</li> <li>• The bidder organization must have ISO certification and also provide the documentary proof.</li> </ul>	
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