

ADVERTISEMENT

CES/QUOT/004

Dt.25.07.2026

Dear Sir,

The Center for Energy Studies, Savitribai Phule Pune University, Pune 411 007, wishes to purchase a UV-Visible-NIR Spectrophotometer for their testing, research, and development programs.

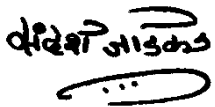
Sr. No	Name of Item	Quantity
01	UV-Visible-NIR Spectrophotometer	One

You are requested to submit your quotation along with the following documents:

- 1) Sole distributor/Sole Manufacturer Certificate,
- 2) Manufacturer or Authorized Dealer Certificate,
- 3) GST registration and
- 4) Shop Act registration Certificate Photocopy

You are requested to send your quotation on or before **02.08.2026** to the **Coordinator/Head, Center for Energy Studies, Savitribai Phule Pune University, Pune 411 007**. The required minimum technical specifications are given below.

Thanking you,



Coordinator/Head CES

REQUIRED MINIMUM TECHNICAL SPECIFICATIONS

- 1) **Optical system:** Single monochromator, Dual grating, dual detector
 - a) For UV/VIS region 1200 lines/mm,
 - b) For NIR region 300 lines/mm plane grating,
 - c) Czerny-Turner mount, double-beam type
- 2) **Light source:**
 - a) Deuterium lamp for 190 to 350 nm and
 - b) Halogen lamp for 330 to 3200 nm
- 3) **Light source changeover:** User-selectable
- 4) **Detector:** Photomultiplier tube (PMT), Peltier-cooled PbS detector
- 5) **Wavelength range:** 190 nm to 3200 nm
- 6) **Wavelength accuracy:**
 - a) ± 0.3 nm for UV/VIS region (Stabilized at room temperature) and
 - b) ± 1.5 nm for NIR region (Stabilized at room temperature)
- 7) **Wavelength repeatability:**
 - a) ± 0.05 (UV-VIS bandwidth: 0.5 nm)
 - b) ± 0.2 nm (NIR bandwidth: 2.0 nm)
- 8) **Scanning Speed:** 10-4000 nm/min (Maximum in preview mode)
- 9) **Slew speed:**
 - a) $\sim 10,000$ to $12,000$ nm/min (UV-VIS region) and
 - b) ~ 45000 to $48,000$ nm/min (NIR region)
- 10) **Spectral bandwidth:**
 - a) 0.1, 0.2, 0.5, 1, 2, 5, 10 nm (UV-VIS region) and
 - b) 0.4, 0.8, 1, 2, 4, 8, 20, 40 nm (NIR region)
- 11) **Photometric range:** 0 to 10000 % T, - 2 to 4 Abs (UV-VIS region), - 2 to 3 Abs (NIR region)
- 12) **Photometry accuracy:** ± 0.002 Abs (0 to 0.5 Abs), ± 0.003 Abs (0.5 to 1 Abs), ± 0.3 % T (Tested)
- 13) **Photometric repeatability:** ± 0.001 Abs (0 to 0.5 Abs), ± 0.001 Abs (0.5 to 1 Abs)

14) Stray light: Minimum

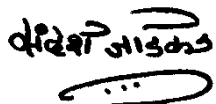
15) Baseline stability: ± 0.0003 Abs/hour

16) Baseline flatness: ± 0.0005 Abs

17) RMS Noise: 0.00003 Abs

18) Software: Measurement modes, Quantitative analysis, Wavelength scan (Abs, % T, % R, Sample, Reference), Time scan (Abs, % T, % R, Sample, Reference), Fixed wavelength (Up to 8 wavelengths). Data processing, Peak picking, Peak height, Peak area, Peak width, Derivatives, Smoothing, Data truncation, Arithmetic, Baseline correction, Subtraction, Deconvolution, Vertical axis conversion, Horizontal axis conversion

19) Other standard functions: Validation Software, Film thickness measurement, Color analysis.



Coordinator/Head

Center for Energy Studies,
Savitribai Phule Pune University,
Pune 411 007