

PC controlled True double beam UV-Visible Spectrophotometer with below mentioned specifications:-

1. **Source Lamp:** Tungsten & Deuterium.
2. **Monochromator:** Blazed holographic grating with  $\geq 1200$  lines/mm, Czerny- Turner with 0.2 m focal length **and other suitable technologies**
3. **Detector :** Si diodes/PMT for Sample and Reference
4. **Photometric System :** True Double beam
5. **Wavelength range :** 190-  $\geq 900$  nm
6. **Spectral Bandwidth:** 0.5 to 4 nm, Variables
7. **Wavelength Accuracy :**  $\pm 0.1$  nm
8. **Wavelength Reproducibility :**  $\pm 0.1$  nm
9. **Photometric Range :** -4 to +4
10. **Photometric Accuracy :**  $\pm 0.002A$  (0-.5 Abs) and  $\pm 0.004A$  (.5-1 Abs)
11. **Photometric Reproducibility :**  $\pm 0.001$  Abs @ 0.5 Abs
12. **Stray light :**  $< 1.0\%$  ( 198 nm KCL ) ,  $< 0.02\%$  (220 nm NaI) and  $< 0.02\%$  (340 nm NaNO<sub>2</sub> )
13. **Baseline Stability :**  $< 0.0004$  Abs/h
14. **Baseline Flatness :**  $\pm 0.0008$  Abs
15. **Photometric Noise :**  $< 0.00008$  Abs
16. **Maximum Scan Rate :** 1-3000 nm/min (variable)
17. **Maximum Slew Rate :** 5000- 8000 nm/min
18. **Environmental Requirement :** Temperature: 15- 35° C and Humidity: 30-80%  
Non-condensing
19. **Software :** System compatible original Licensed Software should be quoted with following capabilities :-
  - a. Software should measure Absorbance, Transmittance and Reflectance at the full or selected Wavelength with real-time spectral displays and live instrument and accessory status bar.
  - b. Software should have facility to export data to Clip board, CSV file, Excel file, BMP file, ASCII file, JCAMP file Zoom In / Out, Add / Edit Labels.
  - c. Software should have facility for fully integrated Scan, Kinetic, and Wavelength program data collection mode.
20. Quartz Cuvettes with 3.5 ml - 1 Pair

21. Branded PC with 8GB, 500 GB HDD, Flat Screen Monitor, Optical Mouse, pre-loaded Windows should be quoted along with system.
22. Future Up gradation: System should be upgradable in Diffused Reflectance Accessory and Multi-cell holder assembly in near future.
23. Any component required extra to install or run the system should be quoted or should be supplied free of cost by firm at the time of installation.

**Important Note:-**

1. All the requirements laid down under the above specifications must carefully read and understood before claiming your instrument as “complied”.
2. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks.
3. User list should be attached along with literature.
4. Anything extra required for installation should be quoted along with instrument.