

Annexure

UV-Vis spectrophotometer of **Shimadzu** Make and Model no. **UV 1800** should be compact with user friendly features of latest generation to perform scanning in UV-Vis region and measurement of absorbance or transmittance at single or multiple wavelengths. Followings are the technical specifications of the instrument.

Technical Specifications-

1. Wavelength range	:	190 to 1100 nm
2. Spectral bandwidth	:	1 nm (190 to 1,100 nm)
3. Wavelength display	:	0.1 nm increments
4. Wavelength accuracy	:	+/- 0.1 nm at D2 peak 656.1 nm +/-0.3nm for entire range
5. Wavelength repeatability	:	+/- 0.1 nm
6. Wavelength scanning speed	:	3000 to 2 nm/min
7. Stray Light	:	Less than 0.02% at 220 nm (NaI)
8. Photometric system	:	Double beam optics
9. Photometric Range	:	Absorbance -4 to 4 Abs Transmittance 0% to 400%
10. Baseline Stability	:	Less than 0.0003 Abs/Hr (700 nm one Hour after light Source turned ON)
11. Baseline flatness	:	Less than +/-0.0006 Abs (110-190 nm one hour after light source turned ON)
12. Noise Level	:	Less than 0.00005 Abs (700 nm)
13. Light source	:	20 W halogen lamp and D2 lamp built-in source auto position adjustment
14. Monochromator	:	Blazes holographic grating Czerny-Turner mounting
15. Detector	:	Silicone Photodiode
16. Sample compartment	:	Internal dia: 110(W)X250(D)X115(H) mm Distance between light beams: 100mm
17. Environmental requirements	:	Temperature : 15° to 35°C & Humidity: 30% to 80%
18. Dimensions	:	450 (W)X490(D)X115(H) mm weight 15 kg
19. Output device	:	USB memory
20. PC compatibility	:	Provided with UV probe software

Spares & Accessories

1. Deuterium Lamp for above spectrophotometer L2D2 Lamp	—	2 Nos.
2. Tungsten Lamp for above spectrophotometer	—	4 Nos.
3. Quartz cuvette for above spectrophotometer	—	5 pairs