

Annexure-A

Specifications Detail for UV-Vis Spectrophotometer Double beam

S.no.	Specifications	Product Descriptions
1.	Description	UV-Vis Spectrophotometer Double beam
2	Compartments	8-position cell changer (standard) 4 position cell changer (long path cells) Peltier thermostatted cell holder (20-60 °C) Slipper accessory Fiber optic probe coupler
3	Connections	Single USB – A Duplex USB – A Export data to network or PC via USB, Ethernet, or Wi-Fi USB adaptor, available Print via USB, Ethernet or Wi- Fi USB adaptor available
4	Baseline Flatness	± 0.002 A
5	Detector Type	Dual Silicon Photodiodes
6	Display	High-Definition Color Touchscreen (large display)
7	Spectral Bandwidth	2 nm
8	Wavelength Range	190 to 1100 nm
9	Drift	(At 500nm after 1 hour warm up) <0.0005 A/hr.
10	Electrical Requirements	External AC to DC Converter, Voltage and Frequency (Hz) selected automatically, 100/240V, 50/60 Hz
11	Keypad	Touchscreen
12	Lamp Life	> 5 years
13	Noise	(RMS at 500 nm 60 consecutive measurements) ≤ 0.00020 A at 0A at 260 and 500 nm ≤ 0.00030 A at 1A at 260 and 500 nm ≤ 0.00040 A at 2A at 260 and 500 nm
14	Optical Design	Double Beam
15	Photometric Accuracy	± 0.002 A at 0.5 A, ± 0.004 A at 1.0A, ± 0.008 A at 2.0 A
16	Photometric Display	-3A to +5A
17	Photometric range	-2A to + 3.5 A
18	Photometric Repeatability	± 0.001 A at 1 A measured at 1.0 A at 546 nm
19	Printer included	Snap – on printer
20	Scan Speed	Slow, medium and fast – up to 1600 nm/min
21	Stray Light	< 1.0% T 198nm (KCl), <0.05% T at 220 nm (NaI), <0.03% T at 340 nm (NaNO ₂)
22	Wavelength accuracy	± 0.5 nm

23	Wavelength Data Interval	0.1 nm, 0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm
24	Wavelength Repeatability	$<\pm 0.2$ nm
25	Software and Hardware	Computer (PC) & Printer Compatible to Spectrophotometer and Its software by Online.
26	Warranty	03 years