UV-Vis Spectrophotometer with Integrating Sphere

Optical Design: Double Beam with sample and reference cuvette positions; Czerny-Turner Monochromator
Spectral Bandwidths: Variable: 1 nm and 2 nm; Room Light Resistant Microcell, Fiber optic, Material Optimised
Light Source: Xenon flash lamp or similar with atleast 3-year warranty
Detector: Dual Silicon Photodiodes
Wavelength Range: 190 –1100 nm
Wavelength Accuracy: ± 0.5 nm (541.9, 546.1 nm mercury line) ± 0.8 nm (full range)
Wavelength Reproducibility: ≤ 0.05 nm (546.1 nm mercury line, SD of 10 measurements)
Scanning Speed: <1 to 5000 nm/min or better ; continuously variable
Slew Speed: 25,000nm/min or better
Photometric Range ≥ 3.5 Abs

Should Include:

a. Integrating Sphere for Thin Film Analysis with following specification
~ 60mm Integrating Sphere w/Spectralon coating
~ Single beam
~ Transmittance and reflectance modes
~ includes 1A mesh filter
b. Software for Computer Control and off-line data analysis
c. USB Memory Device
d. A pair of Quartz cuvetter with 10 mm path length and 3.5 ml volume
e. Free of cost Installation and demonstration at site
f. Full Range Scanning