

Tender Reference : F. No. INST/12(395)/2021-Pur Dated 14.02.2022 for the Supply and installation of “UV-VIS-NIR Spectrometer with Accessories”

Subject : Corrigendum/Addendum with amendments

SNO	Tender Specification	Corrigendum/Addendum
1.	Principle: True double beam system with double monochromator with inbuilt three detectors for ultra-high UV/Vis/NIR performance. System should have ultra-low stray light, ratio recording which should work in Transmission, Reflection and Absorption mode.	Principle: True double beam system with double monochromator with inbuilt three or suitable detector combination for ultra-high UV/Vis/NIR performance. System should have ultra-low stray light, ratio recording which should work in transmission, Reflection and Absorption mode.
2.	System should have separate sample compartment for specialized accessories to double the flexibility for customized applications	System should have separate or suitable sample compartment for specialized accessories to enhance the flexibility for customized applications.
3.	Grating: UV Vis – min 1200 lines/mm UV/Vis blazed at 240 nm, min NIR - 300 lines/mm NIR blazed at 1100 nm	Grating: UV Vis – min 1200 lines/mm UV/Vis blazed at 240 or 250 nm, min NIR - 300 lines/mm NIR blazed at 1100 or 1192nm
4.	Wavelength accuracy: UV-visible within ± 0.08 nm or better, Near IR- within ± 0.3 nm Or better	Wavelength accuracy: UV-visible within ± 0.08 nm or better, Near IR- within ± 0.4 nm Or better
5.	Wavelength reproducibility: Within ± 0.01 nm in visible range or better, ± 0.04 nm in NIR range or better	Wavelength reproducibility (SD with 10 measurement): Within ± 0.01 nm in visible range or better, ± 0.04 nm in NIR range or better (Standard deviation of 10 measurements)
6.	Photometric accuracy: At 0.5 Abs ≤ 0.002 Abs, At 1.0 ABS ≤ 0.003 ABS or better using NIST traceable filters	Photometric accuracy: At 0.5 or 0.3 Abs or 1.0 Abs ≤ 0.002 ABS better using NIST traceable or suitable filters
7.	Photometric Linearity : at 2 Abs ; ± 0.005 Abs (UVS) and ± 0.005 Abs (NIR) or better	at 1Abs or 2Abs or ; ± 0.005 Abs (UVVIS) and ± 0.005 Abs (NIR) or better
8.	Photometric Noise: Within 0.0001 Abs (0 Abs, 190 nm), within 0.00002 Abs (0 Abs & 1500 nm), < 0.00010 abs (2 Abs and 1500 nm InGaAs)	Photometric Noise: Within 0.0001 Abs (0 Abs, 190 nm), within 0.00003 Abs (0 Abs & 1500 nm), < 0.0005 abs (at 2 Abs and 1500 nm InGaAs or PbS).
9.	Detector: High performance gridless Photomultiplier detector / Peltier-Cooled PbS & wide band InGaAs.)	Detector: High performance gridless Photomultiplier detector, Peltier-Cooled PbS or wide band InGaAs or suitable detector combination to comply all required spectrophotometer mainframe performance specifications.
10.	Integrating sphere of 100 mm or better diameter with PbS detector	Integrating sphere of 100 mm or better diameter with PbS & PMT detector to cover 250 nm to 2500nm range.

Other Specification and terms & Conditions remains the same.