

Specification for UV/Visible spectrophotometer and Microplate Reader

- 1) Light source: UV Xenon flash lamp
- 2) Wavelength selection: Double monochromator
- 3) Wavelength range: 230-1000 nm or better with 1nm increment
- 4) Measurement range: 0-4 O.D.
- 5) Wavelength accuracy: $<\pm 2\%$ or better
- 6) The system should be capable of reading 6- to - 384 well plate formats.
- 7) The system should have provision to measure low volume multiple samples simultaneously with detection limit 2ng/ μ l, preferably quartz optics and the nanoquant plate should be provided with the system.
- 8) The system should have cuvette option for absorbance reading and vertical cuvette adaptor/port should be provided with the system.
- 9) The system should be provided with two separate 10 mm light path quartz cuvette capable of measuring sample volume 0.1 mL and 1 mL.
- 10) Temperature control for incubation: ambient +5°C up to 42°C.
- 11) The system should have the option for plate shaking.
- 12) The system should be capable of performing DNA/RNA quantification, Protein quantification, Enzyme profiling, Enzyme assay, ELISA.
- 13) The system should be upgradable to fluorescence and luminescence detection mode in future.
- 14) The system should come with complete data reduction software capable of end point and kinetic data analysis, branded computer with a suitable configuration, key board, mouse, TFT monitor and a UPS.
- 15) The system should be provided with a good quality anti-vibration table of appropriate size to house the instrument.
- 16) A dust cover should be provided with the system.
- 17) Operating power: 220V and 50 Hz
- 18) Comprehensive Warranty : 5 years
- 19) Certified to meet USA/CE standards

Important clauses:

- Literatures with all technical specifications and features clearly marking the tender specifications at appropriate places to be sent along with the offer.
- Copies of CE and other certificates should be enclosed.
- The standard accessories that would be supplied with the system to be clearly indicated.
- Availability of local service support and response time for a service call during and after warranty should be specified.
- List of users of the quoted system from other Indian organization should be provided.

Specifications for Benchtop UV/White Transilluminator

1. The instrument should have white light and UV working areas side by side in the same system.
2. The instrument should have Wave Length of 254 nm UV or 302 nm UV along with white light.
3. The system should have a filter size of 20 x 20 cm or better.
4. The System should have variable intensity switch.
5. The system should have hinged, clear UV blocking cover.
6. The system should be certified to meet USA/CE standards.
7. Minimum two years comprehensive warranty should be provided.