

CPP TENDER ID: 2025_CSIR_237205_1

PUR/IICT/0640/RE-3/24-25/EQPT

CORRIGENDUM - 1

**REVISED/AMENDED SPECIFICATIONS FOR SUPPLY INSTALLATION
COMMISSIONING OF MICROPLATE MULTIMODE READER**

The following corrigendum is issued to above mentioned tender for supply of "Microplate Multimode reader"

The revised technical specifications are as below

- Microplate multimode reader with true Dual Double Monochromator for Absorbance, Fluorescence, Luminescence, TRF, and FRET without filter and suitable lamp source such as Xenon Flash Lamp with long life.
 - The system should be capable of Endpoint Kinetics.
 - System should be fully open for different reagent/kit manufacturers.
 - Micro plate type: 6 to 384 well plates.
 - Temperature control: 5 °C above ambient to 42 °C or better.
 - Plate shaking: Linear, orbital and double orbital in 3 different speeds.
 - System should detect Absorbance, Fluorescence and Luminescence.
 - System should have Automated Z focus for fluorescence/luminescence reading.
 - The system should perform wavelength scanning.
 - The Fluorescence mode should have a spectral scan feature across Excitation and Emission.
 - Low Volume quantification plate with 16 channel quartz optic tool with 2ng/μL sensitivity (detection in both absorbance and fluorescence) should be supplied.
 - All software's provided at the time of installation should have free updates for 10 years that includes newer versions if any.
 - Should be able to quantify at least 4 μL samples of nucleic acid and proteins.
 - Computer attached to the multimode reader for data acquisition should be all-in-one 27-inch computer with intel core i7 14th gen or higher, 16 GB DDR5 RAM and 1TB SSD.
- Second computer for data analysis should be All-in-one 24-inch 4.5K Retina display with 10-core CPU, 10-core GPU, 16-core Neural Engine, Standard glass, 16GB unified memory, 512GB SSD storage, Four Thunderbolt 4 ports, Gigabit Ethernet, wireless Mouse and wireless Keyboard with Touch ID - US English

Absorbance:

- Wavelength selection: Dual double Monochromator Optics.
- Wavelength range: 230 nm to 900 nm or better with 1 nm increment.

- Lamp: Suitable Xenon Flash Lamp.
- Detectors: Photodiode.
- Measurement range: 0 – 4 OD.
- Plate shaking: Linear, orbital and double orbital in 3 different speeds.
- Should read 1 mL Cuvettes.

Fluorescence:

- Reading capabilities for top and bottom of microplate
- Wavelength selection: Quad Monochromatic optics
- Wavelength range: Ex – 250-850 nm, Em – 280-850 nm or better
- Wavelength selection: 1.0 nm increments.
- Fluorescence Detector: PMT and UV
- Time Resolved Fluorescence through Monochromator without filter cassette.
- FRET Assay without filter cassette must be performed at the time of installation.

Luminescence

- Detector: PMT
- Wavelength range: 380 – 600 nm in primary mode
- Dynamic range: $> 10^6$ logs


Accessories

- Should provide two compatible quartz cuvettes
- Should provide battery run single channel digital (repeat pipette) that can handle 1 μ L -10000 μ L volumes using different volume tips

Three Years warranty on all supplies

Multimode Reader Certifications: Should be certified by CE, UL or CSA

Bidders may please take note of the above changes and submit their quotations accordingly. All other technical specifications including due date of bid submission remain unchanged.



Stores & Purchase Officer

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