



श्री वेंकटेश्वर कलाशाला

Sri Venkateswara College

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CORRIGENDUM

Ref: SVC/Admin/Procurement/CIC-SIP 2018-2

Date: 12.3.2018

This is with reference to the letter (Ref: SVC/Admin/Procurement/CIC-SIP 2018-1) dated 22.02.2018, please find the revised technical specifications for the Multi-Mode Plate reader. The sealed quotations in two bid system should reach the undersigned on or before 19th March, 2018, 5 PM by Registered Post/Courier or by Hand addressed to:

The Principal
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Benito Juarez Marg, Dhaula Kuan
New Delhi-110021
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Further, the sealed quotations should clearly mention on the top of the envelop "QUOTATIONS for the Purchase of Instruments for CIC-SIP."

Nandita

Dr.Nandita Narayanasamy

Principal
Principal

Distribution:

1. College Website
2. DU Website
3. CPP Portal, Govt. of India
4. College Notice Board

CHAPTER 4

SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

SPECIFICATIONS OF MULTIMODE PLATE READER WITH SOFTWARE

A MultiMode Microplate Reader with reading Mode of Absorbance, Fluorescence Intensity, Luminescence, TRF and Fluorescence Polarization and system should be capable to do FRET analysis.

- Light Source : High-Power LEDs + Deuterium Lamp / Xenon Lamp
- Detector : Silicon Photo Diode + PMT
- Filters : 2 EX + 1 EM Filter Slides (6 filter capacity)
- Reading
- Plate Format : 6-1536 well
- Measurement Methods : Endpoint, Kinetic, Linear Scan, Area Scan
- Shaking : Linear + Orbital (3 speeds)
- Temperature Control : Ambient +4°C to 45°C

Absorbance Specifications:

- Wavelength Range : 230-650nm
- Reading Capabilities : Microplate and Cuvette
- Indication Range : 0 to 3.5 OD
- Accuracy : <+1% + 10mOD at 2 OD
- Reproducibility : <+0.5% and +0.005 OD at 2 OD
- Read Time : 18sec/96well; 37sec/384well

Fluorescence Intensity: Top Read

- Wavelength Range : 230-750nm
- Detection Limit--96 well plate : 0.5 fmol/200µl fluorescein
- Detection Limit--384 well plate : 0.4 fmol/100µl fluorescein
- Linear Dynamic Range : 6 decades
- Read Time (Fly mode) : 18sec/96well; 37sec/384well

Fluorescence Intensity: Bottom Read

- Wavelength Range : 300-650nm
- Detection Limit--96 well plate : 25 fmol/200µl fluorescein
- Detection Limit--384 well plate : 15 fmol/100µl fluorescein

Luminescence:

- Wavelength Range : 400-750nm
- Detection Limit--96 well plate : 2 fmol ATP
- Linear Dynamic Range : 6 decades
- Read Time (Fly mode) : 18sec/96well; 37sec/384well

Time-Resolved Fluorescence (TRF):

- Wavelength Range : 340-750nm
- Detection Limit--96 well plate : 30 amol/200µl Europium
- Detection Limit--384 well plate : 15 amol/100µl Europium
- Linear Dynamic Range : 5 decades

Fluorescence Polarization (FP):

- Wavelength Range : 300-750nm
- Detection Limit--96 well plate : 3 mP at 10nM Fluorescein
- Detection Limit--384 well plate : 4 mP at 10nM Fluorescein

- Linear Dynamic Range : 5 decades
- Read Time : 38sec/96well; 79sec/384well

Software integrated system which provides data acquisition, analysis and management capabilities, allowing cross-plate analysis and custom calculations. The system should have a patented Path check technology to reproduce the data similar to that of 96 and 384 cuvettes values as in spectrophotometer and without a need to export the data to a spreadsheet. Required computer and printer to supplied along with the system. Computer should be branded (Dell or HP or Acer) with 4 GB RAM, 500 HDD, and at least 4 or above USB port with CD and DVD writer, Pre-loaded with Window 7 Pro, Processor Intel i3 or i5.

System should be CE/ ISO certified.

The system should have been installed at least 2 users (user certificate should be submitted).

Manufacturer's warranty for 1 year.

Payment will be done after successful installation and demonstration.