



## Notice Inviting e-Tender

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**Procurement, supply and installation of Multimode Plate Reader in the Hospital and  
Medical College of the Government of West Bengal**  
*(Submission of Bid through online)*

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| <b>Bid Reference No.: WBMSCL/NIT-644/2025</b> |
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| <b>Dated-24.07.2025</b> |
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The following amendment have been made in the tender document,

### **Amendment –I (Revision of Technical Specification)**

The revised technical specifications for the item is given below,

#### **Multimode Plate Reader**

- Instrument should be able to read monochromator based UV-Vis Absorbance, Fluorescence and Luminescence as well as Time-Resolved Fluorescence (2<sup>0</sup> mode)
- Should be capable of performing End-point, Kinetic, and Spectral scanning and well area scanning assays.
- All modes should be fully automated.
- It should be able to read 6, 12, 24, 48, 96, 384 well plates without need for any adapters. Also read Micro-volume (2 $\mu$ l) samples at least 16 samples at a time. Also should be capable of measuring standard cuvettes.
- It should have Linear, Orbital and double shaking feature with 4-zone temperature control facility from ambient +4°C to 45°C with condensation control mode. Option for speed and duration should be programmable.
- Wavelength selection with Quadruple grating Monochromator (2 Excitation and 2 Emission Monochromators).

- Absorbance wavelength range should be selectable from 250 to 999nm selectable in 1nm increments. Fluorescence wavelength should be selectable from 250 to 670nm selectable in 1nm increments. Luminescence wavelength – 300-700nm.
  - Light source should be Xenon Lamp having long life with at least 1 billion flashes
  - Detector – Photodiode for Absorbance and PMT for Fluorescence and Luminescence
  - Absorbance range should be from 0 to 4 OD with resolution of 0.0001 OD
  - Should have path length correction feature.
  - It should have both Top and Bottom reading probes for Fluorescence measurements
  - Fluorescence Sensitivity: Fluorescein 2.5pM (0.25 fmol/well 384 well plate)
  - Time – Resolved Fluorescence (2<sup>0</sup> mode)
- Light source: Xenon flash lamp

Wavelength range: 250 – 850 nm

Wavelength selection: deep blocking band pass dichroic mirrors

- It should capable of performing glow Luminescence assay
- Luminescence sensitivity 20 amol ATP
- Reading speed – 96 wells – 11 sec and 384 wells – in 22 sec
- Instruments should be CE and TUV safety agency marked and RoHS complaint
- **Option for upgradable on site to include Anisotropy integrated in the same unit for future needs. Also should be able to on site add dual reagent dispenser for fast kinetics and flash fluorescence / Luminescence assays. Option for Upgradable onsite to CO<sub>2</sub>/O<sub>2</sub> Gas Control system & Fluorescence Polarization also.**
- Automated Path length correction facility and automatic software for data reduction and calculation should be available
- Suitable software to perform data analysis and data acquisition platform should be supplied
- 100-240 VAC 50/60 Hz 130 Watts max
- **Computer:** Branded desktop computer with i5 processor 4 GB RAM, 1TB HD. Windows 10 Pro with 19-21 inch monitor should be provided with the machine.
- Should have minimum 10 units same model multi mode microplate reader installations in Kolkata region.

The Principal Manufacturer must have direct presence/approved authorized service center with expert service engineers at Kolkata.

All Spare parts should be available in next 10 years from date of supply.

**Certificate:** The bidder/ OEM should have valid Registration/License - CDSCO/CE (declaration of conformity) Certificate for both the manufacturer(s) and importer(s) as applicable.