



सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान
CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE
मैसूरु / MYSURU-570 020, भारत / INDIA

(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL Accredited Laboratory

Corrigendum: Tender for Multimode Microplate Reader

Corrigendum Title: Revised Technical Specifications based on PBC

Tender Ref: CFTRI/52354/24-25 Date: 05-12-2024

Tender ID: 2024_CSIR_218000_1

The revised final specifications based on the deliberations in Pre Bid Conference held on 18-12-2024 @ 11.00A.M is uploaded herewith.

All the prospective bidders are requested to take cognizance of the revised specifications and submit their bids accordingly on or before 02.00 p.m. on 30-12-2024.

All other tender terms and conditions of tender remain unaltered.


Stores & Purchase Officer
CSIR-CFTRI, Mysore
Dt. 19-12-2024

Revised Technical Specification based on PBC

Multimode Microplate Reader

1. It should have UV-Vis absorbance, Fluorescence intensity, Time-resolved Fluorescence and Luminescence detection mode.
2. Should Have Xenon Flash lamp as the light source and the detector should be PMT, Photodiode detector.
3. Should be able to read 6, 12, 24, 48, 96, 384 well plates
4. Should be able to read Endpoint, kinetic, spectral scanning, well area scanning
5. Temperature control should be enabled for Incubation from ambient +4°C to 65 °C with feature to control Condensation.
6. Linear, orbital and double orbital shaking mode should be there with programmable temperature control.
7. For Fluorescent intensity and time resolved fluorescence the wavelength range should be 250 - 700 nm, with Monochromator bandwidth variable, from 9 nm to 50 nm in 1 nm increments, Dynamic range of 7 decades, Sensitivity to quad monochromator: Fluorescein 2.5 pM (0.25 fmol/well, 384-well plate) – top Fluorescein 4 pM (0.4 fmol/well, 384 wells: 22 seconds) for Fluorescent intensity and Monos: Europium 120 amol/well, 384-well plate for time resolved fluorescence, PMT Detection system and the reading speed of 96 well: 10-30 seconds; 384 well: 20-90 seconds.
8. For Luminescence wavelength range should be 300 - 700 nm with dynamic range >6 decades and Sensitivity Monos: 20 amol ATP (flash)
9. For Absorbance the detector should be photodiode detector with Wavelength range 230 - 999 nm, 1 nm increment, monochromator as wavelength selector with bandwidth 4

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nm (230 - 285 nm), 8 nm (>285 nm), Dynamic range of 0 - 4.0 OD and Resolution of 0.0001 OD.

10. It should have automated Pathlength correction feature, the accuracy of ± 2 nm for Monochromator wavelength and ± 0.2 nm for repeatability, OD accuracy <1% at 2.0 OD, linearity of <1% from 0 to 3.0 OD, repeatability of <0.5% at 2.0 OD, Stray light of 0.03% at 230 nm and Reading speed of 96 wells: 10-30 seconds; 384 wells: 20-90 seconds.
11. The instrument should be equipped with single integrated windows-based, software with lifetime license and free upgrades, for Reader control and data analysis should be supplied with the instrument. The software should be able to analyze the data and perform the calculations.
12. Software must have Quick Read function to enable read the plate without lengthy protocol definition.
13. It should be upgradeable in future to interface with Microplate Stacker and also compatible with Automated CO₂ / O₂ Incubator and Live imaging system (imaging capabilities to perform fluorescence, bright field, colour bright field imaging by only adding objectives viz. 4x, 10x, 20x, 40x and 60x)
14. The instrument should be able to upgrade in future in order to include Dual Reagent Dispenser and should support Absorbance, Fluorescence and Luminescence reading modes. It should be Capable to dispense in 6- to 384-well plates, with the volume range of 5 - 1000 μ L in 1 nm increment.
15. Micro volume plate (1-3ul sample capacity) with at least 15 samples at a time should be supplied with machine
16. CO₂ and O₂ Control option of 0 – 20% CO₂ control and 1 – 19% O₂ control, with optional Gas Controller
17. Should be able to upgrade this instrument in future to enable to perform Fluorescence Polarization / Anisotropy measurements. & Should be able to upgrade this instrument to

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19/12/2024

