



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 Spectroflurometer with accessories

Corrigendum Title: Revision in Technical Specifications

Tender Ref: CFTRI/52358/24-25 Date: 20-12-2024

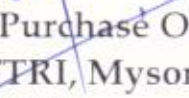
Tender ID: 2024\_CSIR\_220697\_1

Due to modification in technical specification, revised technical specification is uploaded herewith

All the prospective bidders are requested to take cognizance of the revised specifications and submit their bids accordingly on or before 03.00 p.m. on

12-02-2025.

All other tender terms and conditions of tender remain unaltered.

  
Stores & Purchase Officer  
CSIR-CFTRI, Mysore  
Dt. 03-02-2025

# Revised Technical Specification

## Specifications for Quaternary Analytical HPLC with PDA, FLD and RID for Qualitative & Quantitative analysis of food samples

1. Xenon Steady State or Pulse Lamp of  $\geq 150$  W or other suitable source
2. Monochromator: Czerny-Turner/Modified Rowland or equivalent Monochromator. Monochromator for both Excitation and Emission to be available.
3. Grating:  $\geq 1200$  lines/mm for Excitation.
4. Detectors: Photo Multiplier Tube (PMT)
5. Slit Width/Spectral Bandwidth: 1.5 nm to 20 nm or better, for both Excitation and Emission
6. Wavelength Range: 200 nm to 900 nm, for emission and excitation.
7. Wavelength Accuracy:  $\leq \pm 1.5$  nm
8. Signal to Noise Ratio  $\geq 500:1$  (RMS) or better.
9. Resolution: 1.5 nm or better
10. Wavelength scan speed:  $> 20000$  nm/min, or higher
11. Software should be User friendly, original licensed MS Windows 10/Windows 11 based Operating System, it should have built in features like: (i) Scan Application; (ii) Quantum Yield; (iii) Wave/Spectra Scan; (iv) 3D - Wave/3D - Spectra Scan; (v) Quantification; (vi) Kinetics; (vii) Validation; (viii) Synchronous Scan; (ix) 3D - Synchronous Scan.
12. The quoted system should achieve a Limit of Detection (LOD) of  $\leq 1$  nano mol/L or better and a Linear Dynamic Range (LDR) of  $\geq 5$  orders of magnitude using quinine sulfate, fluorescein, rhodamine, or with other standard fluorophores. Relevant technical details must be submitted along with published documentary proof in compliance with ASTM E579 and ASTM E578 guidelines.
13. Three Additional user licenses of genuine software for post run offline analysis of fluorescence data to be provided.
14. Accessories
  - (i) Single Cell Peltier Heating Device with temperature control; temp range  $0^{\circ}\text{C} - 95^{\circ}\text{C}$  or better range with Software - Controlled Temperature Probe, Stirring Facility, and Temperature Accuracy:  $\pm 0.2^{\circ}\text{C}$ .
  - (ii) Solid Sample Holder (for Film, Crystal and Powder Samples)
  - (iii) Quartz Cuvette: 3.5 ml (1 Pair)
  - (iv) Quartz Cuvette: 1 ml (1 Pair)
  - (v) Stirring Bead & Suitable cuvette for heating – 1 Pair
15. Branded PC with 14<sup>th</sup> Generation i7-14700 Processor, 16 GB DDR5 RAM, 1 TB SSD, USB, LAN, USB WiFi Adapter, Mouse, Keyboard,  $\geq 21$ " Monitor, Licensed MS Windows 10/11, 64-bit OS

16. Branded MFP LaserJet Duplex Printer.
17. Warranty: The warranty for the spectrofluorometer and its accessories must be a minimum of one year. In addition to the installed lamp, an additional lamp should be provided.
18. System to be upgradable in future for Micro plate reader (96 well plate)
19. Measurements Mode and Applications: Fluorescence, Phosphorescence, Chemiluminescence, Bioluminescence with future upgradability for anisotropy and polarization Studies.

#### **Eligibility Criteria and General Compliance**

1. A point wise compliance statement as per the specifications must be submitted along with the offer.
2. Original Equipment Manufacturers (OEM), its subsidiary, and authorized dealers in India can quote for this instrument. If the Authorized Vendor of the OEM is quoting, then an official letter on the Letter Head to be attached from the OEM indicating the Tender Number that the OEM will be completely responsible for the Supply and Service/Repair, etc., during the warranty and post-warranty for a period of 7 years and provide the required spares for minimum of 7 years, from the date of satisfactory installation.
3. The quoted model product catalogues attached along with the tender bid, should be available in the Global Public Platform (example in their official website or any other authentic source) and if CSIR-CFTRI requires to verify with the OEM, the complete contact details of the official, who is authorized by the OEM, to be provided, along with their Mobile/Telephone Number, E-Mail ID, Postal Address, etc., in the technical Bid.
4. The bidder should provide the user list in India, along with the complete contact details including E-Mail ID, Mobile/Telephone No., etc. and the bidder should have installed minimum Five Spectrofluorometer instrument in any Government Premier Research Organisations, such as CSIR, ICMR, ICAR, IISc, IITs, etc. in India.
5. The supplier must submit OEM technical brochures and proper application notes/manuals adequately explaining and confirming the availability of the features in the model of the equipment being quoted.
6. All future software upgrades done by OEM for Spectrofluorometer, and consequent to MS Windows OS upgrades, to be provided free-of-cost, during the life-time of the instrument.
7. All consumables for trouble free operation should be supplied including all the essential accessories.
8. On-site training to be provided for operation, maintenance, calibration, application software, method development, data acquisition, post run analysis, qualitative and quantitative analysis, report generation, printing the results and also analyze some food samples at the time of installation.
- 9.. To provide soft copy of all research applications in the area of food science & technology/ bioscience only developed by the OEM.