



सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान  
196, राजा एस सी मल्लिक रोड, कोलकाता - 700 032, भारत  
**CSIR - CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE**  
196, Raja S C Mullick Road, Kolkata - 700 032, India



## CORRIGENDUM

REFERENCE NO. : - P/NC/32/NK/SO/OTE/25-26

DATE: 30/07/2025

NAME OF EQUIPMENT: "SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF FLUORIMETRIC URANIUM ANALYSER" [CPPP PORTAL TENDER ID: 2025\_CSIR\_240734\_1].

NOTE: The Bids must be submitted in the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) only. Manual/Offline bids shall not be accepted under any circumstances. Bidders should quote in INR only.

CONSEQUENT TO THE PRE-BID MEETING HELD ON 17/07/2025, THE REVISED TECHNICAL SPECIFICATION IS ATTACHED IN ANNEXURE- I GIVEN BELOW:-

BIDDERS SHALL ALSO NOTE THAT AS PER CLARIFICATIONS GIVEN BY DPIIT VIDE THEIR O.M. No. P-45021/2/2017-PP(BE-II)-Part (4) Vol. II dated 08<sup>th</sup> July, 2025 REGARDING EXEMPTION LIMITS OF SMALL PURCHASES MADE BY SCIENTIFIC AND RESEARCH INSTITUTIONS, THE TENDERED ITEM QUALIFIES TO FALL UNDER CATEGORY OF "**SMALL PURCHASES**". ACCORDINGLY, THE TENDERED ITEM STANDS EXEMPTED FROM THE PROVISIONS OF PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER DATED 2017 ISSUED BY THE GOVERNMENT OF INDIA. A COPY OF THE AFORESAID GOVERNMENT OF INDIA OFFICE MEMORANDUM NO. P-45021/2/2017-PP (BE-II)-Part (4) Vol. II dated 08<sup>th</sup> July, 2025 IS AVAILABLE ON THE WEBSITE OF DPIIT AT [https://dpiit.gov.in/sites/default/files/ScientificResearch\\_Institutions\\_09July2025.pdf](https://dpiit.gov.in/sites/default/files/ScientificResearch_Institutions_09July2025.pdf)

All other Tender terms and conditions remain unchanged.

*[Handwritten signature]*  
30/7/2025

बोधिसत्त्वा धर / Bodhisattwa Dhar  
Stores & Purchase Officer  
सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान  
CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE  
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कोलकाता / Kolkata-700 032

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## **ANNEXURE I**

### **Technical Specifications of Fluorimetric Uranium Analyser (Revised)**

**Supply, Installation and performance demonstration of Fluorimetric Uranium Analyser with windows based software and cables for data transfer, required chemical reagents, standards and manual**

1. Analytical Technique- Fluorescence of uranium salt
2. Element to be Analysed- Uranium in aqueous medium
3. Radiation Source- Pulsed UV LEDs (Light Emitting Diodes) emitting at 400 nm wavelength and with suitable filter
4. Energy of LED per pulse-20  $\mu$ J or higher
5. Repetition rate- 1000 pulse per second or higher
6. Pulse to pulse variation of output energy- Less than 1%
7. Life of source of excitation- Minimum 5 yrs or more
8. Detector- Photo multiplier tube with precision multilayer optical filter
9. Analyte volume- Less than 10 ml
10. Cuvette- Open top with PTFE lid cuvette. The cuvette should be made of ultra low fluorescence fused silica
11. Dynamic range- 0.1-1000 microgram per litre (0.1-1000 ppb) uranium concentration with min. detection level  $0.2 \pm 0.1$  ppb
12. Precision - Relative Standard Deviation (RSD) must be less than 5%
13. Modes of operation- Standard Addition Mode (Spike Mode), Calibrated Fluorescence Mode (Calibration Curve Mode) Uncalibrated Fluorescence Mode (Fluorescence Count Mode)
14. Display- Full Colour LCD display with touch screen, displaying the results, provision to guide the operator and other relevant information
15. Memory: Minimum 1000 measurement data storage of uranium concentration with sample ID
16. Software: Windows based software for data administration and documentation. Facility of transforming data to a pendrive and then to a PC for further processing. (Pendrive and PC not included). It should include provision to draw calibration curve with best fit line equation and correlation coefficient. Facility of concentration calculation should be available
17. Accessories to be included with the instrument are-
  - a. Six Cuvette made from Spectrosil A grade Fused Silica
  - b. Adapter to operate from 230V mains

- c. Four port USB Hub
- d. Keyboard and Mouse
- e. Stylus for touch screen operation
- f. Dust Cover
- g. Pendrive containing software to operate the instrument
- h. Operator's Manual

#### 18. Measurement Kit

The measurement kit includes—

- (i) 1 bottle of 100 ml of 100 ppm / 2 bottles of 100 ml of 10 ppm certified Uranium standard solution.
- (ii) Three variable precision micropipettes ranging from 0-100 microliter, 0-1 mL and 1-10 mL with 100 disposable tips with each pipettes
- (iii) Chemicals for making Fluren/Buffer solution suitable for about 50000 measurements.
- (iv) Whatman or equivalent filter paper
- (v) Lint free Tissue paper-10 boxes

19. Warrantee - The system should be warranted for a period of 1 year from the date of commissioning. During warranty period, if there is any repair to be carried out at the supplier's works, transportation cost of equipment/ component besides repair/ replacement charges, if any, should be borne by the supplier

20. Delivery – Within 1 month after receiving the Purchase order

21. Training- 3 persons at user Place for 1 day

