



Tender Notice

Request for Proposal – Inductively Coupled Plasma – Mass Spectrometer (ICP-MS)

(RFP-IITD AD-PD 26/040)

The Indian Institute of Technology Delhi – Abu Dhabi (IITD-AD) intends to procure a high-performance research-grade Inductively Coupled Plasma Mass Spectrometer (ICP-MS) for its Central Analytics Facility to support advanced trace elemental and isotopic analysis across a broad range of scientific disciplines. The system shall serve as a core analytical platform supporting teaching and laboratory training activities, heterogeneous and homogeneous catalysis, materials science, carbon capture and utilization, environmental research, water treatment, climate research, battery materials, semiconductors, biological sciences, nanotechnology, and other interdisciplinary research programs.

Brief Project Scope:

Project Overview	IITD-AD seeks to procure a high-performance research-grade Inductively Coupled Plasma Mass Spectrometer (ICP-MS) for its Central Analytics Facility to support advanced trace elemental and isotopic analysis across a broad range of scientific disciplines. The system shall serve as a core analytical platform supporting teaching and laboratory training activities, heterogeneous and homogeneous catalysis, materials science, carbon capture and utilization, environmental research, water treatment, climate research, battery materials, semiconductors, biological sciences, nanotechnology, and other interdisciplinary research programs. The proposed system shall provide ultra-trace elemental detection capability (sub-ppt level for most elements), high sensitivity, broad linear dynamic range, advanced collision/reaction cell technology, high-matrix sample handling capability, automated sample introduction, and future upgrade flexibility for advanced analytical applications. The procurement aims to establish a future-ready elemental characterization platform capable of supporting advanced academic research, industrial collaboration, consultancy services, sponsored research projects, and international research partnerships while maintaining compliance with internationally recognized analytical standards.
Objectives	• Procure a research-grade ICP-MS system capable of ultra-trace elemental and isotopic analysis for advanced multidisciplinary research applications. • Support research and teaching activities in catalysis, materials science, carbon capture, semiconductors, batteries, energy materials, environmental science, water treatment, geosciences, biological sciences, and nanotechnology. • Establish a high-performance analytical platform supporting undergraduate, postgraduate, doctoral, and postdoctoral teaching and research activities.



	• Enable hands-on training in modern elemental analysis techniques, instrumentation, analytical method development, data interpretation, laboratory safety, and quality assurance practices. • Support laboratory teaching, advanced experimental training, workshops, faculty-led practical courses, and interdisciplinary educational activities. • Facilitate industrial collaboration, consultancy projects, contract research, and sponsored research programs requiring high-quality elemental analysis. • Support generation of internationally competitive research outputs including high-impact publications, patents, technology development, and innovation activities. • Establish a scalable analytical infrastructure capable of supporting future expansion into advanced elemental imaging, isotope ratio measurements, nanoparticle characterization, and hyphenated analytical techniques.
Scope	The procurement shall include supply, delivery, installation, commissioning, calibration, validation, user training, warranty support, and after-sales maintenance of a complete research-grade ICP-MS system. The scope shall include, but not be limited to: • Research-grade quadrupole ICP-MS instrument • RF plasma generation system • Advanced collision/reaction cell technology supporting at minimum KED mode and preferably reactive gas capability • High-sensitivity dual-mode detector system with minimum nine orders of dynamic range • Integrated multi-stage vacuum system with turbomolecular pump(s) • Automated sample introduction system with computer-controlled peristaltic pump • High-performance concentric nebulizer and temperature controlled (Peltier-cooled) spray chamber • Integrated cooling and gas management systems • Autosampler with minimum 150-position capacity and automatic rinse station • Workstation computer with licensed instrument control, acquisition, and data processing software • Calibration, tuning, and validation standards



Confidentiality & NDA Requirement

The detailed RFP documents contain confidential information. Interested suppliers must download, complete, sign, and submit the **Non-Disclosure Agreement (NDA)** as an **Expression of Interest (EOI)**.

EOI / NDA Submission Deadline:
20th July 2026, 3:00 PM (UAE Time)

Signed NDAs should be submitted to: procurement@iitdabudhabi.ac.ae

Upon receipt of a duly signed NDA, eligible suppliers will receive the complete RFP package.

Key Procurement Milestones

Milestone	Date
NDA Publication / RFP Launch	Wednesday 15th July 2026
EOI & Signed NDA Submission Deadline	Monday 20th July 2026, 3:00 PM
RFP Document Release	Tuesday 21st July 2026
Clarification Questions Deadline	Thursday 23 rd July 2026, 3:00 PM
Clarification Responses Issued	Monday 27th July 2026
Proposal Submission Deadline	Monday 3rd August 2026, 3:00 PM
Intent to Award	Mid- August 2026

For further information, please contact procurement@iitdabudhabi.ac.ae.