



Tender Notice

Request for Proposal – UV-Vis-NIR Spectrophotometer

(RFP-IITD AD-PD 26/041)

The Indian Institute of Technology Delhi – Abu Dhabi (IITD-AD) intends to procure a high-performance research-grade **UV-Visible-Near Infrared (UV-Vis-NIR) Spectrophotometer** for its Central Analytics Facility to support advanced research, innovation, and teaching activities across Chemical Engineering, Materials Science, Chemistry, Physics, Environmental Engineering, Energy Systems, and related disciplines.

Brief Project Scope:

Project Overview	IIT Delhi–Abu Dhabi seeks to procure a high-performance research-grade UV-Visible-Near Infrared (UV-Vis-NIR) Spectrophotometer for its Central Analytics Facility to support advanced research, innovation, and teaching activities across Chemical Engineering, Materials Science, Chemistry, Physics, Environmental Engineering, Energy Systems, and related disciplines. The proposed system shall enable quantitative and qualitative optical characterization of liquids, powders, thin films, catalysts, photocatalysts, semiconductor materials, coatings, polymers, nanomaterials, and biological samples. The instrument shall support transmission, diffuse reflectance, and specular reflectance measurements over a broad wavelength range spanning the ultraviolet (UV), visible (Vis), and near infrared (NIR) regions. The instrument shall provide high spectral accuracy, ultra-low stray light, high photometric linearity, broad wavelength coverage, and compatibility with advanced accessories including integrating spheres, reflectance accessories, temperature-controlled sample holders, and fiber-optic probes. The system will serve as a shared central research facility that supports interdisciplinary research and academic training. The system will support ongoing and future research programs in: • Heterogeneous and homogeneous catalysis • Carbon capture and utilization • Photocatalysis and solar fuels • Advanced materials characterization • Semiconductor and photonic materials • Energy storage and conversion • Environmental monitoring • Optical coatings and thin films
Objectives	• Procure a research-grade UV-Vis-NIR spectrophotometer for high accuracy absorbance, transmittance, and reflectance measurements across the UV, visible, and NIR regions. • Enable characterization of optical properties, band-gap determination, and thin-film/coating performance.



	• Support in situ and operando measurements using fiber-optic probes and temperature-controlled accessories. • Support research in catalysis, photocatalysis, materials science, semiconductors, energy materials, environmental science, optical coatings, and thin films. • Provide a shared analytical platform for research, training, industrial collaboration, and future expansion with advanced accessories. • Establish a platform to support teaching and research activities of the undergraduate, postgraduate, and researchers.
Scope	The procurement will include supply, installation, commissioning, calibration, training, warranty support, and after-sales maintenance of a complete research-grade UV-Vis-NIR spectrophotometer system. The scope shall include, but not be limited to: • Double beam, double monochromator or equivalent optical design suitable for ultra-low stray-light measurements • High-performance detector configuration optimized for UV, Visible, and NIR regions • Transmission sample holders for liquid, solid, and cuvette measurements • Integrating sphere accessory for diffuse reflectance and diffuse transmission measurements • Powder, liquid, and solid sample holders compatible with integrating sphere measurements • One complete spare lamp kit (deuterium and tungsten-halogen sources) • Integrated workstation with licensed software • Installation, commissioning, calibration, validation, and user training • Minimum 36-month comprehensive warranty • Availability of spare parts and technical support for a minimum of ten years Optional pricing may be requested for: • Multipurpose or universal measurement accessory (reflectance and transmittance measurements of coatings, films, optical components, and solid materials) • Fiber-optic probe suitable for remote and high-temperature measurements • Temperature-controlled sample holder or provision for future integration • Variable angle specular reflectance accessory (VASRA) • Reaction cells for in situ and operando measurements • Praying Mantis diffuse reflectance accessory or equivalent • Polarizer and depolarizer accessories • Annual maintenance contract (AMC) pricing



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**.