



Focus on Excellence

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)[®]

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Tender Ref. No: 1/FIT/IDEALAB/2025

Date: 29/07/2025

Tender Notice

Sealed/Online tenders are invited from reputed and experienced suppliers, manufacturers, or authorized distributors for the supply, installation, and commissioning of equipment, tools, and machines for setting up an AICTE IDEA Lab at our institute. The laboratory is to be developed as per the AICTE guidelines for promoting innovation, design thinking, and prototyping skills among students and faculty. The detailed specifications of the required items are enclosed with this document.

| Sl No | Equipment | Specifications | Qty |
|-------|-----------|---|-----|
| 1 | Laptop | AI/ML - Processor Intel Core i5-14600KF (14 cores, 20 threads, up to 5.3 GHz, unlocked, no iGPU) Motherboard MSI PRO Z790-S WiFi DDR5 or Gigabyte B760 AORUS Elite AX DDR5, CPU Cooler DeepCool AK400 High-Performance Air Cooler, RAM Corsair Vengeance 32GB (2×16GB) DDR5 5600MHz Dual Channel, SSD (Primary) WD Black SN770 1TB NVMe Gen4 (PCIe 4.0, 5150MB/s read) + 3 Yrs Warranty | 3 |
| 2 | GPU | NVIDIA RTX 4070 Ti 12GB GDDR6X (MSI / Zotac / Gigabyte – any good brand) Power Supply Cooler Master MWE Gold 750W 80+ Certified Full Modular Cabinet Ant Esports ICE-511MT or NZXT H5 Flow (good airflow, mid-tower) + 3 yrs Warranty | 1 |
| 3 | Server PC | CPU Intel Core i5-13500 (14-core hybrid, up to 4.8 GHz, built-in graphics) Motherboard Gigabyte B760M DS3H AX DDR5 (mATX, WiFi,) RAM 32GB DDR5 5200MHz (2×16GB Corsair / Kingston) SSD (Boot/App) 1TB WD SN770 NVMe PCIe Gen4 (~5000 MB/s) HDD (Storage) 2TB Seagate Barracuda 7200 RPM Cabinet Ant Esports ICE-130AG Mid Tower (with mesh airflow) Power Supply Cooler Master MWE 550 Bronze V2 (80+ rated, reliable) Monitor Acer 21.5" Full HD VA Panel (K222HQL) Keyboard + Mouse Logitech MK120 Wired Combo (USB, durable for | 1 |

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|---|------------------------------------|--|---|
| | | CLI/sysadmin) OS Ubuntu Server 22.04 LTS (or Debian/AlmaLinux – Free and open source) + 3 Yrs Warranty | |
| 4 | SMART Board 65-inch | Size: 65 inches,Aspect Ratio: 16:9,Resolution: 4K UHD (3840 x 2160),Brightness: (Typical value, 350 cd/m²),Contrast Ratio: (Typical value, 5000:1 static),Response Time: (Typical value, ., 8 ms),Viewing Angle: 178° (horizontal/vertical),Backlight Life: (Typical value, 50,000 hours),Touch Technology: (e.g., HyPr Touch with InGlass),Touch Points: (e.g., 20 simultaneous touch points),Response Time: (e.g., 5-10 ms),Tool Differentiation: Yes (pen, finger, eraser),HDMI In: (3 x HDMI 2.0),USB-A: (3 x USB 3.0, 1 x USB 2.0),USB-B (for touch): (2),USB-C (with power delivery),Ethernet (RJ45): (, 2, 1Gbps),VGA In: (1) Audio In/Out: (3.5mm jack),DisplayPort In: (1) Wi-Fi: (Wi-Fi 6, 802.11ax), Bluetooth: (Bluetooth 5.0) Operating System: (Android-based, SMART iQ)Processor: (ARM Cortex A73 x 4) RAM: (4 GB) + 3 Yrs Warranty | |
| 5 | Dye-Sublimation Printers: | Print Technology: On-demand Inkjet (Piezoelectric) with PrecisionCore. Ink: Dye-sublimation ink (e.g., UltraChrome DS), typically 4 or 6 colors. Resolution: Up to 2880 x 1440 dpi. Ink Droplet: Variable-sized (e.g., 3.0 picoliters). Speed: Varies (e.g., 1-10+ sq ft/hr). Paper Handling: Roll and/or sheet feed; max width varies (24", 44", 64", A4/A3). Connectivity: USB 2.0, Ethernet, Wi-Fi. OS: Windows, macOS. Power: Varies (Operating: 50W).+ 3 Yrs Warranty | 1 |
| 6 | Stereolithography (SLA) 3D printer | Technology: SLA,Light Source: UV Laser (e.g., 405nm) or LCD Masking Resin Type: Photopolymer Resins (Standard, Engineering, Dental, Castable, etc.)Standard (X, Y, Z): \[192mm x 120mm x 245mm\]XY Resolution: \[25-130 microns\]Positional Accuracy: \[Specify Value, e.g., ±0.1mm or ±0.005mm/mm, Typical Print Speed:20-50 mm/hr Z-Axis Mechanism: Lead screw with stepper motor Resin Tank: Removable Resin Level Sensor: YesResin Agitation: Yes Display: Touchscreen LCD / Buttons, Connectivity: USB, Ethernet, Wi-Fi Supported File Formats: STL, OBJ, 3MF, Features: Supports generation, hollowing, drain holes, auto-orientation, print profile management, Supported OS: Windows, macOS, Linux, Printer Dimensions (L x W x H): \ | 1 |

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|---|------------------------|--|---|
| | | 30x 30 x30, Input Voltage: \[100-240V AC\], Power Consumption: \ 150W (printing), 20W (standby), Operating Temperature: \[18-30°C\], Safety Features: Enclosure interlock, UV light shielding, ventilation, Certifications: CE, FCC, RoHS (if applicable), Photopolymer resin, resin tanks/vats, build platform, IPA for cleaning, Warranty Period: 3 years | |
| 7 | A2 Size colour printer | Print Technology: Inkjet (pigment-based for durability, dye-based for vibrancy) Print Resolution: Up to 2400 x 1200 dpi Media Sizes: A2, A3, A4, B2, B3, B4, custom (up to A2 width), roll paper Media Types: Photo (glossy, semi-gloss, matte), fine art, plain, coated, canvas, film, banner Connectivity: USB 2.0/3.0, Ethernet, Wi-Fi, optional Wi-Fi Direct Compatibility: Windows, macOS, Linux (limited) Display: Colour LCD touchscreen + 3 Yrs Warranty | 1 |

Terms and Conditions

The following Terms and Conditions apply to all bidders participating in the tender for the supply, installation, and commissioning of equipment, tools, and machines for the establishment of an AICTE IDEA Lab.

All prospective vendors are required to read and comply with these terms in their entirety.

1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order. The entire contract shall remain valid for a period of three (3) months from the date of award.

Quotations submitted by bidders must remain valid for a minimum of 90 days from the final date of submission. Any quotation that does not meet this validity period will be considered non-compliant.

2. Bid Submission Guidelines

Bids may be submitted either via email (digitally signed) or in hard copy form, as specifically mentioned in the tender notice. All quotations must be printed on the bidder's official letterhead and duly signed by an authorized representative. Each bid must be complete in all respects and must include the following mandatory documents:

Detailed Profile of the Bidder, highlighting experience and key competencies.

- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.
- Copy of submitted GST return (at least up to November 2024).

- Copy of valid PAN Card.
- Chartered Accountant's Certificate for turnover for FY 2021–22, 2022–23, and 2023–24.
- CA-certified and audited Balance Sheets and Financial Statements (Form 3CB/3CA) for the last three financial years.
- Copies of Work Completion or Experience Certificates of similar completed works.
- Valid Shop Establishment License or Factory License.
- Genuine Manufacturer Authorization Form (MAF), which will be subject to verification with the respective OEM.
- Bidder should provide an Escalation Matrix for service and after sales support.
- Valid EPF, ESIC, and Professional Tax Registration Certificates (where applicable).
- Income Tax Return Acknowledgements for FY 2021–22, 2022–23, and 2023–24.
- Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- Complete, signed, and stamped tender document including amendments and deviation sheets, if any (to be uploaded online only).
- Declaration of agreed specifications on company letterhead, duly signed and stamped.
- Any other documents in support of technical eligibility.

All bidders are required to quote for all the items listed in the BoQ. Partial or item-wise quotations will be summarily rejected. Each bidder is allowed to submit only one quotation per package; multiple submissions from a single bidder will lead to disqualification.

3. Technical Documentation and Compliance

The bidder must furnish complete technical documentation for each quoted item. This includes detailed product specifications, installation manuals, operation and maintenance manuals. The bidder is also required to submit a layout/design proposal aligned with the lab setup requirements, highlighting compliance points against the tender specifications.

Original technical brochures or scanned versions of product catalogs should be submitted with the bid. Wherever available, URLs to the OEM's official product page should also be provided for cross-verification.

Each bidder must clearly mention the make, model, and complete technical specifications for the equipment being offered. A compliance sheet responding to each technical requirement outlined in the tender must be prepared and duly signed.

4. Eligibility and Qualification Criteria

All bidders must be OEMs or authorized partners/distributors with valid authorization for the products they are quoting. Authorization letters must be submitted on the OEM's official letterhead. Bidders must demonstrate relevant experience by submitting a minimum of three Purchase Orders (executed within the last five years) for similar equipment supplied to academic, R&D, or industrial institutions. A list of at least five institutional clients (with contact information) must be provided as a reference.

It is mandatory that the bidder or OEM has a registered support office in India to provide warranty and after-sales support. In the case of imported equipment, either the OEM or their authorized seller must submit a certificate confirming the presence of such a service support facility in India.

The OEM must also submit a declaration confirming the availability of spare parts for the quoted products for a minimum of one year and authorize the bidder to participate in the tender.

5. Financial Criteria

Each bidder must have an average annual turnover of ₹5 Crores or more over the last three financial years (FY 2022–23, 2023–24, 2024–25). The turnover must be supported by a CA certificate or audited financial statements.

Prices quoted must be inclusive of all taxes (GST, customs, etc.), transportation, packaging, insurance, unloading, installation, commissioning, and training charges. There shall be no extra claim under any circumstances after the finalization of the bid.

The quoted prices must be firm and fixed throughout the duration of the contract. No escalation in price will be allowed under any pretext.

6. Evaluation and Award of Contract

All bids will be evaluated on the basis of compliance with the technical specifications, completeness of submitted documentation, financial eligibility, and price competitiveness. The contract shall be awarded to the bidder whose offer is determined to be technically responsive and lowest in cost.

The purchaser reserves the absolute right to reject any or all bids without assigning any reason. The final decision on selection will be at the sole discretion of the purchaser and shall be binding on all parties.

7. Warranty and After-Sales Service

All equipment must carry a minimum onsite warranty of at least three years from the date of successful installation and commissioning. During this warranty period, the bidder shall repair or replace any defective items at no additional cost to the purchaser. All associated transportation, testing, and labor costs shall be borne by the bidder.

In case of any service delay or failure to resolve issues during the warranty period, the purchaser reserves the right to invoke penalties or reject future business from the vendor.

8. Payment Terms

Payment shall be released only after the successful supply, installation, and commissioning of the equipment. Final inspection and acceptance will be carried out by the purchaser's technical committee.

No payment shall be made for equipment that is received in damaged condition, is non-functional, or fails to meet the required specifications. The bidder must submit all necessary documentation (delivery challans, installation report, warranty documents, training certificate, invoice, etc.) to process payment.

9. Other Conditions

No bidder shall be given preference based on category, class, or affiliation. The procurement may be extended to additional phases (e.g., Phase II) depending on availability of funds and institutional requirements.

Delayed delivery or installation may result in cancellation of order or imposition of penalties, as deemed fit by the purchaser. The scope of the supply and service must be entirely as per the BoQ and technical specifications. Bids with partial compliance or deviations shall not be entertained.

10. Submission Deadline and Contact Details

All quotations must be submitted by [04/08/2025, 11.59 pm] to the email ID
fisataicteidealab@fisat.ac.in

or

sent in hard copy to:

Federal Institute of Science And Technology (FISAT) Pvt. Ltd.
Plot No. 148A, Sector 14, Gurgaon, Haryana 122001, India. Phone: 0484 2725272



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