

PSN College of Engineering and Technology (Autonomous)



Melathediyoar, Tirunelveli – 627 152, Tamil Nadu.

Approved by AICTE and Affiliated to Anna University

Accredited by NAAC with A+ Grade in 3rd Cycle and Recognized by UGC under Section 2(f) and 12(B)

NBA Accredited courses B.E. (MECH, EEE & CSE)

An ISO 9001 : 2015 Certified Institution

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Quotation Ref. No: PSNCET/IDEALAB/TENDER/01

Date: 05.08.2025

Call for Quotation

Sealed 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.

Sr. No	Equipments	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D printer	Branded Company Product with at least three years product warranty	Printing Technology: Fused Filament Fabrication (FFF) or Fused Deposition Modeling (FDM). Printable Area: The minimum printable area should be at least 310 x 310 x 310 mm or above Printer Design: Core XY or Cartesian. Temperature Range: Hot end: Up to 300°C or above Heat bed: Up to 120°C. or above. Nozzle: Compatible with All polymers, 0.4, 0.6 and 0.8mm Steel Sheet: Provided with satin or smooth PEI surface. Filament Diameter: 1.75mm (supports PLA, PETG, ASA, ABS, etc.). Extruder: Gearbox with 1/10 ratio, Speed : 550 MM/Sec or above Stepper Drivers for smooth motion. or equivalent Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors. LCD Screen: 3.5" graphic 65k color screen or larger. Connectivity: USB drive, LAN, or internet. Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments, and more. Wi-Fi Module: Built-in (network connectivity not required for setup or operation). Compatibility: Windows, macOS, Linux. Printer Dimensions: The maximum physical dimensions of the system 700 X 700 X 700 or above. Fully enclosed Machine.	1

2.	3D Scanner	Branded Company Product with at least three years product warranty	<p>Technology: Stereo camera structured light with focusable cameras or equivalent</p> <p>CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU</p> <p>RAM: 4 GB</p> <p>Projector: DLP MEMS mirror or equivalent</p> <p>Camera Sensor: Sony 13 MP or better</p> <p>Scan Speed: 4 seconds or more Working Distance : Effective Working Distance: 160mm-1400mm Scan Speed : 980,000points/s, up to 14FPS</p> <p>Align Modes : Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers</p> <p>Safety : Eye-safe</p> <p>Texture Scan : Yes</p> <p>Interface : USB 2.0 or above</p> <p>Outdoor Scanning : Yes</p> <p>Output Formats : OBJ; STL; PLY; P3; 3MF</p> <p>canning Environment: Indoor and outdoor (shaded)</p> <p>Texture / Color Scanning: Yes</p> <p>Minimum Capturable Feature Size: 0.2 mm or less</p> <p>Scanner Weight: 500 grams or less</p> <p>Scanner Dimensions: upto 240 × 60 × 60 mm</p> <p>Compatible OS: Any OS supporting a modern web browser</p>	1
3.	CO ₂ Laser Cutting Machine	Branded Company Product with at least three years product warranty	<p>Working Area: Min 600 x 900 mm or above</p> <p>Laser Type: CO₂ DC Glass Laser Tube/RF Metal Laser Tube</p> <p>Laser Power: 80/100W</p> <p>Wavelength: Up to 10.6 Micrometer</p> <p>Cutting Speed: 30000 mm/min or more</p> <p>Engraving Speed: 64000 mm/min or more</p> <p>XY Axis: LM Guide Rail or equivalent</p> <p>Cooling: Air/ Water Cooling</p> <p>Supply Voltage: 230V/415 V</p> <p>Accessories:</p> <p>CO₂ Focus Lens: 1 No. Mirror 25mm: 3 Nos.</p> <p>Acetone: 1 litre Acrylic sheet: 2 Nos</p>	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 mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order **(PSN College of Engineering and Technology, Melathedivoor, Tirunelveli - 627152)**. The entire contract shall remain valid for a period of three (3) months from the date of the 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 with 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 the 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. Bidder Undertaking

The bidder shall furnish an Undertaking Certificate on its official letterhead, duly signed by an authorized representative, certifying that all equipment and materials supplied to **PSN College of Engineering and Technology, Tirunelveli** for the AICTE IDEA Lab are **neither manufactured in nor procured from China or Pakistan.**

The Undertaking Certificate must include the following declarations:

- All items are sourced from verified manufacturers located outside China and Pakistan.
- The bidder complies fully with the Government of India and AICTE procurement guidelines regarding country of origin.
- The bidder accepts that any breach of this undertaking will render the supply contract liable for cancellation and may attract penalties as per prevailing regulations.
- This certificate shall form an integral part of the bid submission and the final contract.

11. Submission Deadline and Contact Details

All quotations must be submitted **within one week** to the email ID aicteidealab@psncet.ac.in and sent in hard copy of quotation to:

Dr. P. SELVAKUMAR, Ph.D.

PROJECT CO-ORDINATOR,

AICTE IDEALAB,

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS),

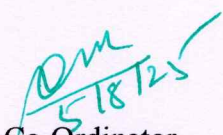
MELATHEDIYOOR,

TIRUNELVELI – 627152

TAMILNADU, INDIA

Contact: S. Ananth & 9092585350

Email: aicteidealab@psncet.ac.in, ananth@psncet.ac.in


Project Co-Ordinator

Dr. P. Selvakumar, M.E., Ph.D.,
Professor of Mechanical Engineering
PSN College of Engineering and Technology
Tirunelveli - 627 152.

[IN BIDDERS LETTER HEAD]

UNDERTAKING CERTIFICATE

To Whomsoever It May Concern

This is to certify that all equipment and materials supplied by **[Vendor Name]** to **PSN College of Engineering and Technology, Tirunelveli** for the AICTE IDEA Lab are neither manufactured in nor procured from China or Pakistan.

We hereby undertake and confirm:

1. All items are sourced from verified manufacturers outside China and Pakistan.
2. We comply fully with Government of India and AICTE procurement guidelines regarding country of origin.

We accept that any breach of this undertaking will render our supply contract liable for cancellation and may attract penalties as per prevailing regulations.

Authorized Signatory: _____

Name: _____

Designation: _____

Company Name: _____

Company Seal: _____

Date: _____