

Tender Ref. No.: SRMIST/AICTE/IDEALAB/PURCHASE/2025-26/001 Dated: 10.09.2025

TENDER NOTICE

Tender Document for AICTE IDEA Lab Equipment Procurement (2025) – SRM Institute of Science and Technology Tiruchirappalli

Tenders are invited in **Two Bid System** from Indian Nationals (manufacturers or authorized distributors) for the supply, installation, and commissioning of various equipment, tools, and machines for setting up an AICTE IDEA Lab at the institute. The laboratory is to be established as per AICTE guidelines to promote innovation, design thinking, and rapid prototyping skills among students and faculty.

Last Date & Time for Bid Submission: 30.09.2025 up to 5:00 PM IST.

Submission Mode: Bidders are instructed to submit their bids in a sealed envelope super scribed as "Quotation against Tender Notification No. SRMIST/AICTE/IDEALAB/PURCHASE/2025-26/001" so as to reach "The Dean (Faculty of Engineering and Technology), SRM Institute of Science and Technology Tiruchirappalli, SRM Nagar, Trichy – Chennai Highway, Tiruchirappalli 621105, Tamilnadu, India" on or before 30.09.2025 at 3.30 p.m. along with a soft copy of the technical compliance form and quotation forms in MS Excel file format in USB/ Flash Drive.

For any further clarifications, contact by E-Mail: balasunr@srmist.edu.in or by written request to "The Dean (Faculty of Engineering and Technology), SRM Institute of Science and Technology Tiruchirappalli, SRM Nagar, Trichy – Chennai Highway, Tiruchirappalli 621105, Tamilnadu, India, Kind ATTN to: Dr. Balasundaram R, Associate Dean, Faculty of Engineering and Technology"

The tender document includes the detailed Equipment List with Specifications, Terms and Conditions, Bid Submission Instructions, Eligibility and Qualification Criteria, Financial Criteria, Evaluation Criteria, Award of Contract, Warranty requirements, Contact Information for queries. Bidders are advised to read all sections carefully and comply with the conditions outlined. All items in the Bill of Quantities must be quoted; partial or item-wise quotations will not be accepted. The purchaser reserves the right to cancel or modify any part of the tender for any reason.

SECTION 1: INSTRUCTIONS TO BIDDERS

SCOPE

Supply and install the equipment and items listed in the Equipment List (with specifications and quantities detailed in the next section). Installation includes any required onsite assembly, testing, and demonstration of functional operation of all equipment. Comprehensive training for faculty/staff on key equipment operation and safety is also expected as part of commissioning.

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 (SRM Institute of Science and Technology Tiruchirappalli, SRM Nagar, Trichy – Chennai Highway, Tiruchirappalli 621105, Tamilnadu, India). 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.

BID SUBMISSION GUIDELINES

1. Bids are to be submitted under two cover system.

2. Cover 1: Cover 1 should contain the following:

- ✓ Detailed Profile of the Bidder, highlighting experience and key competencies.
- ✓ Technical pamphlets
- ✓ Detailed technical specification
- ✓ The bidder should furnish copy of the Company/Firm Registration Certificate
- ✓ The bidder should furnish copy of valid GST Registration Certificate/ Income Tax PAN number & TIN number.
- ✓ Copy of submitted GST return (at least up to November 2024).
- ✓ The bidder should furnish the last three years balance sheet approved by the CA and the IT clearance certificate.
- ✓ Valid Shop Establishment License or Factory License.
- ✓ Genuine Manufacturer Authorization Form (MAF), which will be subject to verification with the respective OEM.
- ✓ Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- ✓ Warranty period offered for the tendered item to be specified. If the warranty period is not conforming with the schedule of requirements given in next section of the document, the bid is liable to be treated as non-responsive and rejected.
- ✓ Duly filled up technical questionnaire, if any
- ✓ Duly filled up deviation schedules to technical specification
- ✓ Copy of supply orders completed during the last three years
- ✓ If the prices are revealed in the cover 1, the offer will be summarily rejected
- ✓ Declaration of agreed specifications on company letterhead, duly signed and stamped.
- ✓ The cover 1 shall be super scribed as 'Technical cover' duly indicating the Tender reference No. and the due date of opening. * Appropriately pertaining to the country of origin.

3. Cover 2: Cover 2 should contain the following

- ✓ Scanned copy of item wise break up of price bid.
- ✓ Bidders can quote Basic Price in INR or CURRENCY (for other than INR) but it is mandatory to quote taxes/levies in INR only, in the prescribed column and upload the same in the commercial bid.
- ✓ Cover 2 shall contain Price only and shall be super scribed as 'Price Cover' duly indicating the Tender Reference No. and the due date of opening.

Each Cover shall be sent in a double sealed cover. The inner covers (Cover 1 and Cover 2) should be sealed individually with the Sellers's distinctive seal and super scribed with the tender reference no. and due date of opening. Both the inner covers shall be placed in a common outer cover which shall also be sealed with seller's distinctive seal and super scribed with the tender reference no. and due date of opening.

Mention "Kind Attention: Dr. Balasundaram R, Associate Dean, Faculty of Engineering and Technology" and submit at the address given in the Notice Inviting Tender.

Cover 1 will be opened on the scheduled date and time mentioned in the tender enquiry.

Cover 2 of the technically and commercially suitable offers alone will be opened on a date which will be intimated to the qualified bidders.

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.

A foreign firm and individual may be ineligible if as a matter of law or regulations, India prohibits commercial relations with the country of bidder.

A Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

FINANCIAL CRITERIA

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.

EVALUATION AND AWARD OF CONTRACT

Evaluation of bids will be carried out on an item-wise or trade-wise basis, as applicable. The lowest price bid for each item/trade, meeting the specifications and terms of the tender, will be considered for award of contract. The Purchaser reserves the right to award the contract to multiple suppliers based on item-wise/trade-wise lowest bids.

Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with the bidding process until information on Contract Award is communication to all Bidders.

No Bidder shall contact the purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Purchaser it should be done in writing.

Any effort by a Bidder to influence the purchaser in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.

To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids.

If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification its bid may be rejected.

The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids.

The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria.

The Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided the Bidder is determined to be qualified to perform the Contract satisfactorily.

Purchasers Right to vary Quantities at Time of Award: At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in next Section, Schedule of Requirements, provided this does

not exceed the percentages specified in the BDS, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

The Institute reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

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 labour 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.

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.

CONTACT INFORMATION

For any clarifications regarding this tender, bidders may contact the following office:

Dr. BALASUNDARAM R,

Faculty Coordinator AICTE IDEA Lab

Associate Dean (Faculty of Engineering and Technology),

SRM Institute of Science and Technology Tiruchirappalli,

SRM Nagar, Trichy – Chennai Highway, Tiruchirappalli 621105,

Tamilnadu, India,

E-Mail: balasunr@srmist.edu.in (for query purposes only; not for bid submission)

All queries should be made in writing (email) at least 5 days before the last submission date. Responses to significant queries (if any) will be communicated to all prospective bidders by email or posted on the university website. Bidders are requested to study the tender document thoroughly and ensure that they submit all required information.

SECTION 2: EQUIPMENT LIST AND SPECIFICATIONS

The following tables list the required equipment, tools, and consumables along with preferred brands/quality, minimum technical specifications, and quantity to be procured for the IDEA Lab. Bidders must ensure that the products offered meet or exceed the given specifications. All equipment must be of high quality, from established brands, and include at least the minimum warranty period specified (refer to Warranty clauses). Equivalent or superior models from reputed brands will be accepted if the exact preferred brand/model is not available, provided they meet the specifications.

Sl. No.	Equipment Name	Specifications	Quantity
01	3D Printer (FDM)	3D Printer –FDM Type Print Size (L x W x H) (mm):220 x 220 x 240 Printing Speed (mm/s):500 Heat bed Temperature (°C) ≤ 100 °C Nozzle Diameter (mm):0.4 Nozzle Temperature (°C) ≤ 300 °C Screen Type:4.3" color touchscreen Filament Compatibility: ABS, ASA, PETG, PLA, TPU (95A)	04
02	3D Printer – Resin (SLA/DLP) with Wash and Cure bundle	10-inch 12K mono LCD 9H tempered glass XY resolution of 19×24μm Build volume of 218.88×122.88×260 mm ³ Up to 150mm/h printing speed Laser-engraved build plate ACF release liner film for faster printing. 4-inch HD IPS touch screen Built-in activated carbon air purifier With wash and cure machine	01
03	3D Printer – High-Speed FDM	Motion System: CoreXY high-speed architecture Print Speed: Capable of ≥ 500 mm/s print speeds (with input shaping or similar to reduce vibrations) Build Volume: ~250 × 250 × 250 mm Filament: 1.75 mm; auto filament loading; supports multi-color/material (multi filament feeder optional) Features: Auto bed leveling, chamber camera/monitoring, Wi-Fi cloud connectivity Enclosure: Fully enclosed or environmental control for consistent high-speed printing	01
04	3D PRINTER WITH MULTI COLOR	Build Volume: 256*256*256mm File Transfer: USB Drive, Wi-Fi, Ethernet Levelling Mode: Hands free Auto Leveling Display Screen: 4.3" Color touch screen Built in AI Camera Built in LiDAR Sensor Power Loss Recovery Supported Filaments: ABS, PLA, PETG, PET, TPU, PA, ABS, ASA, PC, PLA-CF, PA-CF, PET-CF	01

05	3D SCANNER HYBRID BLUE LASER WITH NIR 3D SCANNER	Scanning Mode: Blue Light (Blue 7-line laser) & NIR Accuracy: Metrology Grade Accuracy upto 0.02mm Sharper Edges and Richer details Scanning speed: High Speed upto 60f/s Capture Range: 270*170*300mm (Blue Light mode) 930*580*1000mm (NIR Mode) 3D camera resolution:1920*1200 Full HD Laser Safety: Class 1 (eye safe) Features: Anti Shaking for Smooth Scanning	01
06	Mixed-Signal Oscilloscope (MSO) 100 MHZ 4 CHANNEL 2GSa/s 12 BIT HIGH RESOLUTION 7" TOUCH SCREEN DISPLAY	100 MHz 4 channels 2 GSa/s 50 Mpts memory depth 500,000 wfm/s waveform capture rate 7" TFT-LCD with capacitive touch screen (1024*600) SPO technology, 2 Mpts FFT Serial bus triggering and decode (Standard), supports IIC, SPI, UART, RS232, CAN, and LIN Support MSO, USB AWG Bode Plot: USB WIFI ;	01
07	Digital Storage Oscilloscopes 100MHZ 2 CHANNEL 2GSA/S 12-BIT HIGH RESOLUTION WITH 7" INCH TOUCH SCREEN DISPLAY	100 MHz 2 channels 2 GSa/s 50 M memory depth 500,000 wfm/s waveform capture rate 7" TFT-LCD with capacitive touch screen (1024*600) SPO technology, 2 Mpts FFT Serial bus triggering and decode (Standard), supports IIC, SPI, UART, RS232, CAN, and LIN Support MSO, USB AWG Bode Plot: USB WIFI ;	01
08	ARBITRARY FUNCTION/SIGNAL GENERATOR 30 MHZ DUAL CHANNEL	30MHz 2 channels 150MSa/s wave length: 16Kpts; function/arbitrary waveform output amplitude:4mV ~ 20Vpp (high impedance) modulation function (AM, DSB-AM, FM, PM, ASK, FSK, PWM, Sweep, Burst) frequency counter function, Easy Pulse technology. Standard interfaces: USB Device, USB Host.	01
09	DC Regulated Power Supplies	3 independent controlled and isolated output: 32V / 3.2A×2, 2.5V / 3.3V / 5V / 3.2A×1, total power 220W. Resolution:10 mV/10 mA Three output modes: independent, series and parallel LED display; 32 V full scale, 4 digits; 3.2 A full scale, 3 digits	01

		100V / 120V / 220V / 230V compatible design, to meet the needs of different power grids. Intelligent fan for temperature control, effectively reduces noise. Supports SCPI commands & USB device interface. Includes PC software.	
10	PCB Milling Machine & PCB Prototype Machine:	<p>BMATE-300W Machine with Controller • PCB Cabinet with Hand held remote • Desktop Computer, CPU, Mouse and Keyboard • Eureka Forbes Vacuum Cleaner • Single Side Copper Clad – 10 No's • Double Side Copper Clad – 10 No's • Drill Bits – 10 No's • Engrave Bits – 10 No's • PCB Washing Tub – 1 No • Digital Microscope Endoscope Camera – 1No • Soldering and DE soldering Stations – 1No • Spanner sets and screw drivers - 1 sets • Double and single side tape- 1 sets • PCB Cleaning Solutions-1No • Syringe with Silver oxide gel-1 No • Acrylic Board with clamp – 1 No</p> <p>Software Packages: 1. G Code Converting Software - Copper CAM (1 User) 2. Machine Operating Software - MACH3 Mill (1 User) 3. Surface Levelling Software - Auto Leveller (free ware)</p> <p>Multipurpose Working Table with Accessories: 1. Solder Masking 2. PTH Making 3. Legend Printing 4. UV exposure</p>	01
11	PCB Milling Machine	<p>PCB Prototyping Machine-Manual tool change(MTC)</p> <p>300 W ,50000 RPM Or better</p> <p>Machine dimensions :700 X 350 X 270 mm</p> <p>Working area :300 x 180 x 45 mm</p> <p>PCB Cabinet with Hand held remote</p> <p>Desktop Computer, CPU, Mouse and Keyboard</p> <p>Vacuum Cleaner</p> <p>Single Side Copper Clad – 5 No's</p> <p>Double Side Copper Clad – 5 No's</p> <p>Drill Bits – 1 set</p> <p>Engrave Bits – 10 No's</p> <p>Spanner sets and screw drivers - 1 sets</p> <p>Double and single side tape- 1 sets</p> <p>Solder Masking 1 No's</p> <p>PTH Making 1 No's</p> <p>Legend Printing 1 No's</p> <p>UV exposure 1 No's</p>	01
12	ESD ALUMINIUM PROFILE BASED ELECTRONIC WORKSTATION	<p>ESD table Length 1400mm, Width 760mm, Height 1600mm • ESD Mate with wrist bands – 1 Sets. • Components Tray box- 4 Nos • 10W LED tube – 2 Nos • Two Pole MCB 16A- 1 No • 5A Socket- 4Nos • 20A Socket-1 No • Soldering & Desoldering Station- 1No • Perforated Sheet-2 Nos • Draw storage unit</p>	01

		with castor wheel- 1 No • Multimeter HTC - DM-98-2 Nos	
13	Solder stations	Type: Temperature-controlled soldering iron stations Power: ~60 W (each station) with adjustable temperature range 200–480°C Features: ESD-safe design, rapid heating ceramic element Includes soldering iron with fine tip, iron stand, cleaning sponge	05
14	Desoldering M/c	Method: Vacuum desoldering pump with heated tip Temperature: ~300–450°C adjustable (for solder melt) Suction: Electric vacuum pump for quick solder removal Includes interchangeable nozzle tips, collection chamber for solder Useful for thru-hole PCB components desoldering with precision	01
15	Digital Microscope	S2 USB 8 LED 1X-500X Digital Microscope Endoscope Magnifier Video Camera Real 2Mp	01
16	Bench-Top Multimeter	4½-digit; 150rdgs / s measurement speed; 4.3 inch (480 * 272) true color TFT-LCD screen display; True RMS AC voltage and AC current measurements.	
17	Laser Cutter	100 watts size - Marking Area 1200mm*900mm + laser cutting software +Water Cooling Chiller including 5KVA stabilizer Stepper system 1 year warranty with 5KVA stablizer	01
18	Vinyl Cutter	Cutting Plotter + STAND 800G Size 770*310*265 mm Max Force-800 g + software	01
19	5-Axis Desktop CNC Milling Machine	Configuration: 5-axis CNC mill, tabletop size - Work Envelope: ~115 × 125 × 90 mm (X,Y,Z travel) with A/B rotary axes (A tilt -25°–135°, B continuous 360°) - Spindle Speed: ≥ 50–60 krpm high-speed spindle (suitable for aluminum, brass, etc.) - Materials: Capable of machining plastics, woods, aluminum; can handle materials up to ~4140 steel hardness in small volumes - Software: Compatible with standard CAM toolpaths; USB connectivity - Comes with basic tooling and collets; enclosure or safety cover included	01
20	Quadcopter Drone Assembly Kits	Complete DIY Drone Kit for 450–500 mm class quadcopters - Frame: X or H configuration frame kit (~500 mm size) with carbon fiber arms, landing gear - Motors & ESCs: 4 × brushless motors with matching ESCs (30–40 A) per kit - Flight Controller: Pixhawk 6C or similar autopilot with GPS module - RC	05

		Control: 2.4 GHz Transmitter & Receiver (e.g. 16 channel programmable TX with receiver) per kit - Power: 4S Li-Po batteries (e.g. 14.8 V, ~5000 mAh) – 2 per kit and a balanced charger for Li-Po - FPV: FPV camera and 5.8 GHz video transmitter module for each drone - Quantity: 5 complete kits (each kit comprising all above components, ready for assembly)	
21	Hot Air Gun	Ergonomically designed heat gun pistol grip handle with lock-on switch provides comfort. • 1800-Watt, 230 Volt, Pistol Grip, Up to 550 degree centigrade, 3-meter Cable Length • It provides instant hot air with its superior performance and spherical nozzle.	05
22	Measuring Equipment's	Vernier Calliper 0-200- 1 No Vernier Height Gauge (0-1000mm) – 1 No Micrometer inside and Micrometer outside- Each-1 No (All The Above One Number Each- One Set)	01
23	Digital Multimeter	Make: HTC Model: DM-98	05
24	3D Printer Filament (Assorted)	Assorted 1.75 mm filament spools for FDM printers: • PLA (several colors), ABS, PETG, TPU flexible – approximately 2 spools of each common type • Special: PLA+ or PLA-CF (carbon fiber) and one spool of high-temp material like PEEK or Nylon - Total ~12 spools assorted (1 kg each)	12
25	3D Printer Resin (Assorted)	Photopolymer resins for SLA printer: • Standard resin (e.g. gray or clear) – 2 × 1 kg bottles • Specialty resins: e.g. one bottle of flexible (elastic) resin, others (e.g. tough or high-temp) as needed - Ensure compatibility with 405 nm LCD printer; include safety data sheets	05
26	Solder Wire (Lead-Free)	Standard Sn/Cu lead-free solder wire - Gauge: ~22 AWG (0.6–0.8 mm diameter) - Quantity: 10 reels of ~100 g each	10
27	Solder Flux Paste	Flux paste for soldering (rosin based, no-clean type preferred) - Small jars, ~50 g each - For facilitating solder flow on PCB pads	05
28	Desoldering Wick (Solder Braid)	Copper braid for removing solder - Width ~2 mm - 10 rolls (each roll ~1.5 m length)	10
29	Manual PCB Drilling Machine (3 Nos.)	PCB Hand Drill / Manual Micro Drill Machine – Suitable for PCB drilling & DIY applications, compatible with drill bits 0.3mm–1.2mm, lightweight, easy hand-held operation, ideal for FR4 / epoxy PCB prototyping	03
30	PCB Power Drill machine	A rotary tool with collets is a versatile and precision-oriented power tool designed for a wide range of tasks that require cutting, grinding, polishing, engraving, or drilling.	03