

KCG COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

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Date of Issue: [29.07.2025]

Tender No: KCG-IDEA Lab/ Admin/Tender/2025-26/01

Due date: [07.08.2025], Time: 11:59 PM

NOTICE INVITING TENDER

On behalf of **KCG College of Technology**, Chennai, sealed techno-commercial bids are being invited from eligible bidders for supply of **AICTE IDEA Lab equipment**. The list of items that are being procured and their specifications are as **Table 1**. The Techno-Commercial bid is to be submitted in hard-copy by **11:59 PM** on 07.08.2025.

Table 1: List of Equipment/Machine with detailed specifications under this tender

Item No.	Equipment/Item Name	Specifications	Quantity
1.1	Laser Cutting Machine	Working Area: 900×600mm (minimum)Laser Type: CO2 Laser TubePower: 100W or moreEngraving Speed: 0-64 m/minCutting Speed: 0-36 m/minAccuracy: ±0.05mmWavelength: 10.6 µmInterface: USB connectivity	1
1.2	Vinyl Cutter	Cutting Width: 600mm or moreDimensions: 930×300×400mm (minimum)Weight: 30 Kg (approximately)Features: Heat Press Combo 5-in-1Accuracy: ±0.01mmAuto feeding sensorTouch screen interface	1
1.3	3D Printer (FDM)	Build Volume: 220×220×250mm (minimum)Technology: FDMResolution: ±0.1mmPrint Speed: <180 mm/sMaterials: PLA, TPU, ABS, PETGNozzle Temperature: As applicableBed Temperature: As applicableConnectivity: USB, WiFi	1

1.4	3D Scanner	Type: Handheld Portable Accuracy: 0.05mm Resolution: 0.1-0.2mm Working Distance: 150-400mm USB interface Complete package with software Calibration accessories included	1
1.5	CNC Router	Working Area: 1300×2500mm (minimum) Z-Axis: 200mm Spindle: 5.5KW, 24000rpm Accuracy: ±0.05mm Speed: 10-20 m/min (working) Controller: Advanced DSP controller Software: Industry standard	1
1.6	Mini Desktop Lathe cum Milling	Swing over bed: 250mm Distance between centers: 400-500mm Hole through spindle: 20mm Spindle speed: 125-2000rpm Chuck: 10mm Complete with accessories	1
1.7	Drilling Machine 1 HP Motor	Power: 600W or better Speed: 0-4500RPM (variable) High speed bench drilling machine 1 HP 3 PHASE MOTOR Belt drive system Safety features included	1
1.8	Handheld High Speed Drilling Machine	Speed: 15000 RPM Power: 550 Watts Features: Variable speed, Reverse brush Ergonomic design Chuck size: 13mm Voltage: 240V	2 units
1.9	Benchtop Grinder Machine	Wheel Diameter: 150mm Power: 300W Speed: 3600 RPM Features: Built-In Coolant Tray Safety: Spark Deflector, Tool Rest Weight: Approximately 15 kg	1
1.10	Solder Station	Soldering Iron: 24V AC Power: 60W/130W Temperature Range: 160°-480°C Heating element: Ceramic Digital display and control ESD safe operation	5 units
1.11	Desoldering Machine	Power: 600W Features: Diaphragm pump Temperature: 100°C~450°C Vacuum system Professional grade Portable design	1
1.12	Advanced Motorized Sewing Machine	Type: Motor Operated Speed: 20 Stitches per minute Max Stitch Length: 0.5 Brand: USHA or equivalent Dimensions: 20D×38W×28H	1

		cmMulti-function capabilities	
1.13	Wood Lathe	Power: 1/2HPMotor: 400WSpeed: 1100/1600/2300/3400RPMCapacity: 40" between centersVariable speed controlComplete with tool rest and accessories	1
1.14	Power Tools	Impact drill tool, claw hammer, pliersOperating power: 500 Watts100 Pcs accessoriesProfessional tool kitCarrying case included	1 set
1.15	Portable Welding Machine	Input Power: 220V ±15%Output Current: 20-180AElectrode: 1.6-3.2mmFeatures: Anti-sticking technologyForced air cooling200amp capacity	1
1.16	Refrigerator	Capacity: 180-185 LitersType: Single DoorEnergy Rating: 3 StarPreferred Brands: LG, Samsung, WhirlpoolDirect cool type1 year warranty	1
1.17	Normal and Microwave Oven	Capacity: 20LPower: 800 wattsFeatures: Vapor Clean, Quick Timer5 Power LevelsConvection typeMulti-function cooking	1
1.18	Magnifying Glass with Stand	Image sensor: 1.3M HD CMOSPhoto resolution: 2560×1920Focus Range: 15~44mm manualLED lighting systemAdjustable stand and angle	2 units
1.19	Digital Microscope	Magnification: 10x to 100x (minimum)Camera Resolution: 12-Megapixel HDMemory: SD card slot (up to 128 GB)Illumination: LED adjustable brightnessVideo resolution: 1080pUSB computer connectivity	1
1.20	Mixed Signal Oscilloscope	Bandwidth: 70 MHzChannels: 2 analog + 8 digitalSampling Rate: 2GSa/sMemory: 100 kpts/channelDisplay: 8.5-inch color TFTProfessional grade	1
1.21	Digital Storage Oscilloscope	Bandwidth: 50MHzChannels: 2Sample Rate: 1GS/sMemory: 2M pointsDisplay: 7" TFT	1

		LCDStandard accessories included	
1.22	Signal Generator	Channels: 2Max Frequency: 20MHzWaveforms: Sine, Square, Triangle/Ramp, PulseDisplay: 7" ColourDigital controlStandard connectivity	1
1.23	Variable Power Supply	Power: 90WOutput: Ch1 0-6V, Ch2 0-30V, Ch3 0-30VCurrent: Ch1 0-5A, Ch2 0-1A, Ch3 0-1ADigital displayMultiple output channels	1
1.24	Benchtop Multimeter	Resolution: 6000 countsDCV Accuracy: 0.5% + 2 countsVoltage Range: 600mV-600VResistance: 600Ω-60MΩProfessional gradeDigital display	1
1.25	Projector	Resolution: SVGA (800×600)Brightness: 4000 ANSI lumensContrast: 20,000:1Lamp Life: 6000-15000 hrsFeatures: 3D capabilityConnectivity: USB, VGA, HDMI	1
1.26	Heavy Duty Laser Printer	Type: Laser, All-in-OneFunctions: Print, Scan, Copy, DuplexOutput: MonochromeSpeed: 30 ppmConnectivity: USB, Ethernet, Wi-FiProfessional grade	1
1.27	PCB Milling Machine	Software: Industry standard design suiteWorking Area: 300×400×50mmSpeed: 3000mm/minSpindle: 500W, 12000 RPMPrecision: 0.1mm line widthComplete with accessories	1
1.28	Smart Board	Resolution: 4K Ultra HD (3840×2160)Touch: 40 Touch PointsSize: 75" PanelOS: Android 14.0Storage: 8GB RAM, 256GBBuilt-in computer system	1
1.29	Computer Workstation	Brand: Dell or equivalentProcessor: Intel Xeon Gold 6230RAM: 128GBStorage: 512GB SSDGraphics: Professional grade19-inch monitor included	5 units

INSTRUCTIONS TO BIDDERS

Eligibility Criteria

1. **Minimum three years' experience** in the field of supply of equipment. (Applicable for Table-1)
2. **Annual Turnover** for supply of equipment at least **Rs. 25 lakhs** (Rupees Twenty-five lakhs) in each of the last three years i.e., **2021-22, 2022-23 & 2023-24** as per P&L audited statement of Account. (Applicable for Table-1)
3. **Must have supplied similar equipment** to laboratories of State or Central Government Institutions or reputed Educational or Research Institutions and proof of such supplies should be produced. (Applicable for Table-1)

Documents Comprising the Bid

The bid prepared by the bidder shall comprise the following components. (These will also be used for determining the eligibility criteria).

Documentary evidence established in accordance with the eligibility criteria explained above that the bidder is eligible to bid and is qualified to perform the contract if the bid is accepted.

- a) **Audited P&L Accounts** for the last three years i.e., 2021-22, 2022-23 & 2023-24.
- b) **Registration Certificate/Certificate of incorporation**, if any.
- c) **Authorized dealer Certificate** from Manufacturer if the agency is a dealer.
- d) **GST Registration**
- e) **Copy of PAN/CIN No.** of the Company
- f) **GST number** along with registered email id and phone number of the firm

Tender Fee and EMD

The respective Vendor has to deposit **Rs. 500/- as Tender Fee (Non-Refundable)**, and **Rs. 15,000/- as EMD** (Applicable once, whether bidding for 1 equipment or more). Mode of submission is bank draft drawn in the favour of "**KCG College of Technology IDEA Lab**" payable at **Chennai**.

Period of Validity of Bids

Bid shall remain valid for **90 days** after the date of opening of bids prescribed by KCG College of Technology. A bid valid for a shorter period shall be rejected by KCG College of Technology as non-responsive.

KCG COLLEGE OF TECHNOLOGY AICTE IDEA LAB

**KCG College of Technology,
Block A, Karapakkam,
Chennai, Tamil Nadu.
India. Pin: 600097.**

Rates Comparison

Bidders are requested to send their rates (inclusive of transportation, loading, unloading, GST etc, nothing extra will be paid towards delivery and installation) for KCG College of Technology, Chennai, Tamil Nadu, India.

Parts of Equipment

Where the equipment is composed of several subunits/components, the rate should be quoted for each subunit/component.

The Institute reserves the right to increase or decrease the number of subunits/components and number of equipment according to its requirements.

Payment Terms

Payment will be made to the supplier through following modes:

NEFT/Cheque/Demand Draft: 70% payment will be made within 30 days from the date of receipt of material at KCG College of Technology, Chennai and balance 30% after successful installation of the equipment.

Delivery & Installation

All the items ordered shall be delivered and installed at KCG College of Technology, Chennai within **3 Weeks** from the date of issue of the purchase order. All the aspects of safe delivery and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver and commissioning of the items/components on or before the stipulated date, then a penalty at the rate of **1% per week** of the total order value shall be levied subject to maximum of **10%** of the total order value. The goods are to be supplied within this stipulated period, failing which the supply order is liable to be cancelled.

Training of Personnel

The supplier shall provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment at the company cost.

Site Preparation

The supplier shall inform the Institute about the site preparation, if any, needed for the installation of equipment, within **1 week** after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site whether the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

Guarantee/Warranty

Three-year warranty must be provided by the supplier from the date of the satisfactory installation/commissioning of equipment against the defect of any manufacturing, workmanship, and poor quality of components.

In case, supplier fails to repair/or rectify the equipment during the warranty/guarantee period, Institute may employ or pay another person/company for repairing the equipment, and all such damages, loss and expenses shall be recovered from the supplier.

Award of Contract

KCG College of Technology shall evaluate as the most suitable by those eligible bidders whose offers have been found technically, commercially and financially acceptable and evaluated as the most suitable by KCG College of Technology.

Award of work shall be considered based on requirement as assessed by KCG College of Technology.

A Purchase order will be issued by KCG College of Technology to the selected Agency.

Undertaking from the Bidders

An undertaking will be submitted by the Bidder/firm/company/vendor that in the past they have never been banned/debarred for doing business dealings with the

Ministry of Defence/Govt. of India/any other Govt. organization and that there is no enquiry going on by CBI/ED/any other Govt. agency against them.

Jurisdiction

This tender and or the contract or work order issued under this tender shall be governed by Laws of India and shall be exclusive jurisdiction of courts at **Chennai, Tamil Nadu**.

TENDER SUBMISSION LETTER

(To be Typed & Submitted in the Letter Head of the Company/Firm of Bidder)

Tender No: KCG-IDEA LAB/ Admin/Tender/2024-

25/01 Dated:

To,

The Principal,

KCG College of Technology,

Karapakkam,

Chennai, Tamil Nadu

PIN 600097

Subject: Submission of Offer against Tender No: KCG-IDEA

LAB/ Admin/Tender/2024-25/01

Dear Sir,

I/We hereby offer to carry out the assignment detailed in the Tender issued by **AICTE IDEA LAB, KCG College of Technology, Chennai**, in accordance with the tender issued dated: **12.04.2025**

I/We have carefully perused the following listed documents connected with the Tender documents and shall abide by the same.

Tender Document

1. Techno-Commercial Bid

Supporting Document

1. Audited P&L Accounts of last 3 years
2. Registration Certificate
3. Authorized Dealer Certificate, from Manufacturer (If applicable)
4. GST Registration letter along with email ID & Phone No.
5. Copy of PAN/CIN No.

I/We have furnished '**Tender Fee and Earnest Money Deposit (EMD)**' for the work as provided for in the Tender Conditions as indicated by KCG College of Technology (Receipt Copy of Deposit is attached) I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the thereto.

Date:

Place:

Signature of authorized person

Full Name & Designation:

Company's Seal

Date:

TECHNO-COMMERCIAL BID - FORMAT

Name of the

Bidder: _____

S.No .	Name of Equipmen t	Manufacture r	Model Numbe r	Specification s	Unit Price	GS T	Tota l Price
1				Parameter	Valu e		
2							
3							
4							

Terms & Conditions

- All the support services and replacement shall be provided with respect to "**Company Partner Premier Support**"Packs.
- The Vendor shall also provide **On-Site Support** (Hardware/Software) for all above mentioned location, whenever requested.
- The vendor shall coordinate with company for registering a call and delivery of support service on time.
- The vendor shall also arrange a **standby device** (if required) till the replacement of a faulty device received from company.

Service Level Agreement:

- **Response Time:** 1 Business Day
- **Resolution Time:** 2 Business Day onsite by technically qualified engineer and all hardware repair/replacement support back-to-back from Manufacturer.

Note: The bidder should quote price inclusive of all expenses, duties, levies, out of pocket expenses, etc.

Certified that the above offer is valid for **90 days** from the opening of technical bid.

Signature of the Authorized Signatory

Name of the Firm: _____

Place: _____

Date: __/__/

Address: _____

(with rubber stamp of the firm)

CERTIFICATE OF GUARANTEE/WARRANTY

(on letter head)

I / We certify that the guarantee / warranty shall be given for a period of **3 (Three) Year** starting from the date of the satisfactory installation, commissioning and handing over of the equipment and the work completed under the contract. During the guarantee / warranty period, I / we shall provide the **"after sale service"** and the replacement of defective / or any part(s) of the equipment or rectification of defects of work of the equipment will be **free of cost**. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee / warranty shall begin only from the date of successful installation. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user / your organization.

I / We shall try to repair the equipment at Institute premises. However, in case it is not possible to repair the equipment at Institute premises, we will take out the equipment to our site on our own expenses. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repair still the equipment is rehabilitated to the Institute after repair. If any loss of equipment occurred during our custody, we will restore it / compensate to Institute for such losses.

I / We guarantee that in case we fail to carry out the maintenance work within the stipulated period, the Institute reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. The expenses of the same shall be recoverable from us with / without interest in accordance with the circumstances.

I / We undertake to perform calibration after every major repair / breakdown / taking the equipment out for repair from the Institute premises. I / We guarantee that we will supply spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

I / We guarantee to the effect that before going out of production of the spare parts, we will give the adequate advance notice to Institute so that Institute may undertake to procure the balance of the life time requirements of the spare parts.

**LIST OF GOVT. ORGANIZATION/NITs/IISER/CSIR/IISc/REPUTED
UNIVERSITY/INSTITUTE**

List of Government Organizations for whom the Bidder has undertaken such work during _____ last _____ three _____ years
(must be supported with work orders)

Name of the organization	Name of Contact Person	Contact No.
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Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

Name of the Organization Name of Contact Person Contact No.

The OEM/ authorized distributor / agent must be successfully completed at least 3 similar orders in KCG College of Technology/ NITs/IISER/CSIR/IISc/ Reputed University/Institute during last 3 years.

Signature _____ of _____ Bidder
Name: _____
Designation: _____
Organization _____ **Name:** _____
Contact No.: _____

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: // _____

To,
The Principal,
KCG College of Technology,
Karapakkam,
Chennai, Tamil Nadu
PIN 600097

Sub: Authorization for release of payment / dues from KCG College of Technology through Electronic Fund Transfer/RTGS Transfer.

Name of the Party/Firm/Company/Institute:

Address of the Party:

City: _____ **Pin Code:** _____ **E-Mail**

ID: _____

Mob No: _____ **Permanent Account**

Number: _____

Particulars of Bank:

Bank Name: _____ **Branch Name:** _____

Branch Place: _____ **Branch City:** _____

PIN Code: _____ **Branch Code:** _____

MICR No.:

(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number)

IFS Code: (11-digit alpha numeric code)

Account Type _____ **Savings**

Account Number: _____

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date: _____

Signature of the Authorized Official from the Bank

CERTIFICATE OF DECLARATION

(on letter head)

Tender Notice No: KCG-IDEA LAB/ Admin/Tender/2024

25/01 Date: _____

Declaration

1. I/We have read the above terms and conditions carefully and these are acceptable to me.
2. I/We hereby declare that my firm/company/concern is registered for the above work. I/We am in the business of the above work, which can be verified from my record. I/we have not been blacklisted by any Government and other organization.

Name of the Tenderer

Address

Signature of the Tenderer

With Seal and Date

INTEGRITY PACT

To Whomsoever It May Concern

Subject: Tender Number KCG-IDEA LAB/Admin/Tender/2024-25/01 for procurement of items to be used in AICTE IDEA Lab in KCG College of Technology, Chennai

It is here by declared that **The Principal, KCG College of Technology, Chennai** is committed to follow the principle of transparency, equity, and competitiveness in public procurement.

The subject Tender Number **KCG-IDEA LAB/Admin/Tender/2024-25/01** is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the KCG College of Technology.

Yours faithfully,

PRINCIPAL
KCG College of Technology
Karapakkam
Chennai, Tamil Nadu
India. PIN - 600097

PRINCIPAL
KCG College of Technology
Chennai - 600097

Contact Information:
Purchase Department
KCG College of Technology
Karapakkam, Chennai, Tamil Nadu - 600097
Phone: (044) 2747-4747 / 2747-4748
Email: purchase@kcgcollege.com