Date : August 28, 2025

Tender Notice / Inviting Quotations
(for procurement of Equipment / Machines / Apparatus / Consumables etc. for Galgotias AICTE Idea Lab)

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 in FOUR parts :

> ➤ Part-A : List of Equipment / Apparatus / Machines with Specifications
> ➤ Part-B : List of Small Machines / Machine Tools etc. with Specification
> ➤ Part-C : List of Tools etc. with Specification
> ➤ Part-D : List of Consumables etc. (with specifications)

The terms and conditions applicable to all bidders participating in this tender for the supply, installation, and commissioning of equipment, tools, machines and consumables for the establishment of an AICTE IDEA Lab (for compliance at their end) are as per following :

1. General Information

a) All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser.

b) The delivery location is Galgotias College of Engineering and Technology, Plot#1, Knowledge Park-II, Greater Noida.

c) 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

a) Bids may be submitted either via email (idealab@galgotiacollege.edu) or in hard copy form, as specifically mentioned in the tender notice.

b) All quotations must be printed on the bidder's official letterhead and duly signed by an authorized representative.

c) Each bidder is allowed to submit only one quotation per package; multiple submissions from a single bidder will lead to disqualification.

d) Each bid must be complete in all respects and must include the following mandatory documents:

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

    ii. Copy of the Company/Firm Registration Certificate.

    iii. Copy of valid GST Registration Certificate and Copy of valid PAN Card.

    iv. Copies of Work Completion or Experience Certificates of similar completed works

    v. Bidder should provide an Escalation Matrix for service and after sales support.

    vi. Complete, signed, and stamped tender document including amendments and deviation sheets, if any (to be uploaded online only).

    vii. Declaration of agreed specifications on company letterhead, duly signed and stamped.

   viii.   A list of Purchase Orders (executed within the last five years, minimum three) for similar equipment supplied to academic, R&D, or industrial institutions

   ix.   A list of (say – five) institutional clients (with contact information)

   x.   Any other documents in support of technical eligibility.

e) Further, Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies is to be submitted at the time of negotiations / issuance of PO.

3. Technical Documentation and Compliance

a) The bidder must furnish complete technical documentation for each quoted item. This includes detailed product specifications, installation manuals, operation and maintenance manuals.

b) The bidder is also required to submit a layout/design proposal aligned with the lab setup requirements, highlighting compliance points against the tender specifications.

c) 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.

d) 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

a) 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.

b) 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

a) 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.

b) 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

a) All bids will be evaluated on the basis of compliance with the technical specifications, completeness of submitted documentation, financial eligibility, price competitiveness, and/or brand reputation.

b) 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

a) All equipment (**as mentioned in Part-A and Part-B**) 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.

b) 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

a) 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.

b) 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

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

b) 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 **September 15, 2025, 04:30pm** to the email ID idealab@galgotiacollege.edu or sent in hard copy to:

> The Director
> Galgotias College of Engineering and Technology,
> 1, Knowledge Park-II, Greater Noida – 201 310 UP
>
> Contact Person: Dr. Brijesh Singh, Faculty Coordinator (AICTE IDEA Lab)
> M- 9335090922 ; Email : brijesh.singh@galgotiacollege.edu

28.8.225

Prof. (Dr.) Vikram Bali
Chief Mentor – Galgotias AICTE IDEA Lab
Director, Galgotias College of Engineering and Technology

Enclosures

a) List of Equipment / Apparatus / Machines with Specifications
b) List of Small Machines / Machine Tools etc. with Specification
c) List of Tools etc. with Specification
d) List of Consumables etc. (with specifications)

Each Apparatus / Equipment / Machine / Tools etc. must be of Excellent Quality and of Reputed Brand.

Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
A	A	Part-A	Apparatus / Equipment / Machines		
A	1	Laser Cutter	Working Area: Min 600 x 900 mm or above (Air/ Water Cooling) ; Laser Power: 80/100W ; Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube; Cutting Speed: 30000 mm/min or more ; Engraving Speed: 64000 mm/min or more ; Accessories # CO2 Focus Lens: 1 No.; Mirror 25mm: 3 Nos. ; Acetone: 1 litre ; Acrylic sheet (3 mm; 8x4 Ft): 2 Nos	1	
A	2	Vinyl Printer / Cutter	Dimensions: 50 cm x 15 cm x 15 cm or above ; Cut speed: up to 14.1 ips ; Max cut size using machine mat: 11.5 inch x23.5 inch or more	1	
A	3	3D Printer (FDM)	Printing Technology : FDM ; Printable Area: 256 x 256 x 256 mm or above ; Speed : 500 MM/Sec or above; Temperature : Hot end: Up to 300°C or above Heat bed: Up to 120°C. or above ; Connectivity: Wifi, USB drive, LAN, or internet ; Wi-Fi Module: Built-in ; Multi-Color Printing with Automatic Filament Management; Including 6 rolls (each of 1 kg , PLA+filament of 1.75 mm and compatible with printer) - of Blue, Red, Yellow, Black, White, Green colour (in total - 6 Kg PLA)	1	
A	4	3D Printer (Resin)	Resin based 3D printer; Speed : 500 MM/Sec or above ; Printable Area: 256 x 256 x 256 mm or above; Connectivity: Wifi, USB drive, LAN, or internet; Materials : PLA, PETG, TPU, PVA, ABS, ASA, PA, PC, PET ; Include : 6 kg of compatible consumable material	1	
A	5	3D Printer (Reinforced)	FDM Printer with Dual Nozzle Printing; Speed : 500 MM/Sec or above ; Printable Area: 256 x 256 x 256 mm or above; Connectivity: Wifi, USB drive, LAN, or internet ; Materials : PLA, PETG, TPU, PVA, ABS, ASA, PA, PC, PET ; Reinforcement : Carbon/Glass Fiber Reinforced Polymer ; Include : 6 kg of compatible consumable material with 1 more kg of reinforcement material	1	
A	6	3D Scanner	Technology: Stereo camera structured light with focusable cameras or equivalent ; CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU; RAM: 4 GB ; Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better ; Scan Speed: 4 seconds or more Working; Effective Working Distance: 160mm-1400mm ; Scan Speed : 980,000points/s, up to 14FPS; Safety : Eye-safe Texture Scan : Yes ; Align Modes : Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers ; Interface : USB2.0 or above; Outdoor Scanning : Yes; Output Formats : OBJ; STL; PLY; P3; 3MF ; Scanning Environment: Indoor and outdoor (shaded); Texture / Color Scanning: Yes ; Minimum Capturable Feature Size: 0.2 mm or less ; Scanner Weight: 500 grams or less; Scanner Dimensions: upto 240 × 60 × 60 mm ; Compatible OS: Any OS supporting a modern web browser	1	
A	7	CNC Wood Router	Working Area: Min 1300 x 2500 mm; Z Axis Working Area: 200 or above ; Resolution: ±0.03/300mm or more CNC Spindle: 3KW or more ; Lathe Structure : Welding Steel Structure or equivalent ; Voltage: AC 220V, 50 Hz, 3 Phase ; XYZ Structure: Rack Pinion , Ball Screw Linear Rails; Max Spindle Speed : Min 18000 RPM ; Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ±0.03 ; Working Mode: Stepper Motor/Servo Motor; Dust Collector : To be included by Vendor	1	
A	8	Lathe Machine	3-Jaw Chuck, Centre Width: Up to 400 mm or better; Height of Centers: Up to 88 mm ; Maximum Workpiece Diameter: Up to 100 mm; rpm; Speed Stages: 6-8 ; Motor Rating: 550W or better, induction motor, single phase 230V ; Traverse Cross: Up to 70 mm or better; Traverse Longitudinal: Up to 300 mm or better	1	
A	9	Wood Lathe	Motor: 230V~50Hz, 550W, S2:15min or above ; Max. Disc Diameter: min 75 mm; Max. Cutting Length: 450 mm or more ; Spindle Speed: 5 speeds such as 1600 / 2600 / 3200 RPM etc ; Material: Cast Iron ; Bed Height: 0.2 m ; Cable Length: 0.850 m	1	
A	10	Digital Microscope	7" LCD Digital Microscope; 1200X Magnification; 1080P Video Microscope with Metal Stand; 12MP Ultra-Precise Focusing; PC View; Windows/Mac OS Compatible; 8 Adjustable Lights	1	
A	11	Mixed Signal Oscilloscope	Bandwidth: Up to 100 MHz ; Real-Time Sampling Rate: Max 1 GSa/s per channel ; Analog Channels: 4 or more; Memory Depth: 10 Mpts per channel ; Waveform Update Rate: Approximately 120,000 wfms/s	1	
A	12	Digital Storage Oscilloscope	2 channel, 50MHz Digital Storage Oscilloscope with 1Gisa/s sampling rate	1	
A	13	Signal or Function Generator	Arbitrary Waveform Generator with 2 Analog Channel and 25MHz Bandwidth	1	
A	14	Benchtop Multimeter	Measures 11 input signals (DC voltage, DC current, true RMS AC voltage, AC Current, two- and four-wire resistance, frequency, continuity, diode test, temperature, and capacitance); 7-inch dual-measurement color display; Reading rate of up to 110 readings/s ; Upto 5,000 points logging memory ; Standard USB and LAN for flexible PC connectivity; USB flash drive support; Including PathWave BenchVue DMM software for remote control and data logging	1	

Each Apparatus / Equipment / Machine / Tools etc. must be of Excellent Quality and of Reputed Brand.

Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
A	15	Digital Multimeters	Display Count: Up to 4000 ; DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V ; DC Voltage Accuracy: ±0.5% or ±3 digits, whichever is higher; AC Voltage Accuracy: Within ±1% + 3 digits DC Current Measurement: Up to 10 A ; AC Current Measurement: Maximum 10 A DC Current Accuracy: ±1.5% + 3 digits (approximate) ; AC Current Accuracy: ±1.5% + 3 digits (typical) ; Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits ; Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits	5	
A	16	Variable Power Supply	Triple output DC bench power supply; USB and LAN connectivity; 7-inch WVGA display; Pathwave BenchVue Software Control and Visualization; Power Output = 90 W (I : 0-6 V with 0-5 A; II : 0-30 V with 0-1 A and III : 0-30 V with 0-1 A); Load regulation (± % of output + offset) : < 0.01% + 2 mV and < 0.2% + 10 m	1	
A	17	LCR Meter	Maximum Test Frequency : 1kHz; SVHC : No SVHC (15-Jun-2015); Maximum Resistance Measured : 0.2Gohm; Maximum Inductance Measurement : 2kH ; Maximum Capacitance Measure : 200pF	1	
A	18	Non - Contact voltage tester	Operating Principle : Senses the steady state electrostatic field produced by ac voltage through insulation without requiring contact to the bare conductor. A red glow at the tip indicates the presence of voltage ; Safety Compliance : Meets IEC 61010-1:2001, UL 61010-1 (2nd ed.), CAN/CSA-C22.2 No. 61010-1-04, and ISA-82.02.01 Pollution Degree 2 ; EMC Compliance : Meets IEC 61326-1:2006; Operating : 90 V ac to 1000 V ac, CAT IV 1000 V rated	5	
A	19	AC Clamp Meter	400A ; Resistance range upto 4 k Ohm	1	
A	20	Refrigerator	Upto 185 Liters, 5 Star, Smart Inverter Refrigerator	1	
A	21	Normal and Microwave Oven	20 L Normal and Microwave Oven	1	
A	22	Reflow Oven	No. of Waves: 7 or higher; Heating Type: Infrared IC Heater; Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz; Peak Power: 1500W; Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C	1	
A	23	PCB Laser Cutting Machine	Capable of cutting PCBs at micro-level through Laser beam	1	
A	24	Projector	Projector Brightness: 3600 Lumens, HDMI / USB Port, Wi-Fi / Bluetooth, Audio Out, Screen Share etc.	1	
A	25	Smart Board / Panel	86 Inch Android 14 Interactive Flat Panel (ADPM) Digital Board, 8 GB RAM 256 GB ROM, Ai-Assistant, 48MP Camera - Microphone, Multitouch Screen Display	1	
A	26	Smart Board / Panel	65 Inch Android 14 Smart Interactive Flat Panel (ADPM) Digital Board with Stand, 8 GB RAM 256 GB ROM, Ai-Assistant, Multitouch Screen Display	1	
A	27	Computers	All in One Desktop, 24 Inch, i7, 13th Generation, 16 GB RAM, 500 GB SSD	10	
A	28	Printer	Laser, Black Toner, with Scanner, High Speed Printing and Scanning, Wifi Enabled; Additional - 1 Black Toner	1	
A	29	PA System	50 Watt; with 2 mic and 4 speakers; capable of USB / Pendrive / Bluetooth input	1	

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Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
B	B	Part-B	Machine Tools		
B	1	Bench Top Drilling M/c	Rating input: Max. 500 W ; Capacity: Steel: Min 13 mm (1/2") ; 5 or more speed modes	1	
B	2	Handhold High Speed Drilling M/c	Power : Approx 600 Watt; 13 mm Chuck; Maximum Rotational Speed : 3000 RPM Rated Torque of 1.4 Nm	1	
B	3	Handhold High Speed Hammer Drilling M/c	Rotary Hammer - SDS Plus; Max. Power 850 W; SDS Plus Tool Holder; Rated Speed 0-1300 rpm ; Impact Rate 0-5100 BPM ; Impact energy 3.2 J ; Active Vibration Control	1	
B	4	Cordless Drilling Machine	Brushless Motor ; Speed (1st/2nd)- 0-500/0-1900 RPM ; Chuck Size 13 mm ; Manufacturing & Construction Use ; 2 Batteries & 1 charger Included	1	
B	5	Benchtop Grinder Machine	Heavy Duty, Double Wheeled Bench Grinder, Max 350 Watt, Rated Speed 3000 rpm ; Grinding Wheel-20 mm	1	
B	6	Power Tool # Handhold Angle Grinder	Max Power : 800 Watt, 11,000 RPM, Disc Dia = 100 mm	1	
B	7	Power Tool # Planer	Corded Electric Planer, 710W, 82 mm Width, 2.6 mm Depth, 18,000 rpm, V-Groove, Cutting Depth Adjustment, With Hex Key and Dust Bag	1	
B	8	Power Tool # Electric Metal Cut Off Saw	14" Chop Saw; 2,400W; 355 mm Cutting Dia.; 3,800 rpm; For Metal upto 355 x 25.4 mm	1	
B	9	Power Tool # Electric Mitre Saw	1750 W, 5000 RPM, Accurate Cutting with Direct Laser Guide, Blade Lengthof 57.5 Centimetres	1	
B	10	Power Tool # Electric Block Cutter	1200W, 1.3mm Chain Gauge, 12 m/s	1	
B	11	Power Tool # Jig Raw	450W, 3,100 spm, 65 mm, Adjustable Stroke Rate, Double Insulation, Variable Speed, Speed Selection, With Blade and Key	1	
B	12	Power Tool # Circular Saw	Upto 2,050W; 235 mm Blade Dia.; 5,300 rpm; 25 mm Bore; Air Blower; with Key, Wrench, Saw Blades	1	
B	13	Power Tool # Table Saw	1,800W; 254 mm Saw Blade Dia; 4,300 rpm; Metal Stand; Meter Gauge; Dust Extraction; for Wood; with Circular Saw Blade	1	
B	14	Power Tool # Randam Orbit Sander	Upto 250W; 12,000 rpm; 24,000 opm; 125 mm Pad Dia with Sanding Disc	1	
B	15	Power Tool # Belt and Disc Sander / Grinder	400W Electric Belt Grinder Sander 4"x 36" in; Belt & Disc Sander 6" Bench Sanding Machine With Speed Controller	1	
B	16	Power Tool # Scroll Saw Machine	Input Power : 50W; CapacityThickness of cut : 50mm ; Throat : 406mm; Speed : 6000 RPM Length of stroke 18mm ; Strokes per min. : 400-1,600 spm; Blade length 600mm;	1	
B	17	Power Tool # Reciprocating Saw	1,300W; 2,900 spm; Stroke 28 mm; Pendulum Stroke, Low Vibration, Variable Speed; with Saw Blade (1 x Metal, 1 x Wood)	1	
B	18	Power Tool # Dremel Moto Saw	Dremel Moto-Saw; MS20-1/5; 2in1 Compact Scroll Saw (70Watt), 1 Attachment, 5 Accessories	1	
B	19	Power Tool # Cordless Rotary Tool	5 speed settings from 6500-28000 RPM; Min 35 Piece Accessory Set, Micro USB Charging	1	
B	20	Power Tool # Corded Electric Router	1,300W, 8 mm Bit, 28,000 rpm, 40 mm, Variable Speed, Restart Protection, Constant Speed	1	
B	21	Power Tool # Screw Driver Set	Professional Screwdriver Kit; 9-Piece Screwdriver Bit Set; 2.0Ah Battery; Speed 360 RPM; Torque 5/2 Nm; Push Start and Smart Stop; ¼" HEX Universal Bit Holder	1	

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Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
B	22	Vacuum Cleaner cum Blower	Vacuum Cleaner and Blower; 1100-Watt; 15 litre	1	
B	23	Vacuum Cleaner	Cordless Vacuum Cleaner, 0.7 Litres, 60 mbar, 1.3 kg + Suction & Extension Tubes, Floor & 2 Nozzles	1	
B	24	Air Compressor	50 Ltr and PU Pipe with Air Inflators (Set of 5 Pcs.)	1	
B	25	Portable Welding Machine (TIG / MMA)	Single phase input of 220V ; Max Power - 7KVA; Suitable for TIG and MMA welding Welding Current # TIG- 10-210amp, MMA- 20-180amp. IGBT based inverter power source Meets international standard (IEC 60974-1); With 2.5m Input cable with plug fitted, 3m Electrode welding cable set, 3m Earth cable set, 3m TIG Torch, Collets Bodies, Nozzles	1	
B	26	Advanced, motorized Sewing Machine	Computerized Sewing Machine; 197 Stitches & Built-in Alphabets; LCD Screen; 70W Motor; Metal Frame; Auto Needle Threader; Accessory Kit	1	
B	27	Solder Stations	Soldering Power = upto 100 W; Soldering Temperature = Upto 180 degree C	4	
B	28	Soldering Station with Hot Air Gun	Soldering Power = upto 100 W; Soldering Temperature = Upto 180 degree C	1	
B	29	Soldering and Desoldering M/c	Soldering and Desoldering Station, Soldering Power = upto 80 W; Desoldering Power = upto 70 W	1	
B	30	Portable Welding M/c (ARC)	Single phase portable 200A MMA inverter welding machine; Rated Input Power: 7.3 KVA, Current Range: 20 - 200A; Electrode Size recommended: upto 4.00mm, With Input cable, Welding Cable set with Electrode Holder, Earth Cable set with Earth Clamp	1	

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Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
C	C	Part-C	Tools		
C	1	Manual Drilling Machine	1/4-INCH CHUCK FOR VERSATILE DRILLING – Accommodates standard drill bits for working with wood, plastic, aluminium, and soft metals ; With 13 Pc HSS Drill Bit Set	2	
C	2	PCB Drilling Machine (Manual)	50Pcs USB Rechargeable Rotary Tool Kit, 3.7V Cordless Mini Drill Machine with LED Light, 5-Speed Adjustable Motor for Engraving, Polishing & Soft Material Drilling	5	
C	3	Centrifugal Blower	650 W Motor; Airflow of 3.7 m3/min; Lightweight & Ergonomic Design; Compatible with Multiple Nozzle Attachments; Air Flow Capacity : 16000 RPM ; Noise Level : Max. 50 dB	1	
C	29	Granite Surface plate	Minimum Size = 630x630x80 mm	1	
C	31	Clothes iron (Dry)	Upto 1.5 KW	3	
C	32	Clothes iron (Steam)	Non-stick soleplate; Powerful 17gm/min steam output ; Max. 1500 W Quick heat-up	1	
C	33	Clothes iron (Heavy Weight)	Upto 1000W 2KG Heavy Weight Dry Iron	1	
C	34	Filament Dehydrator	3D Printer Filament Dryer , 360° Hot-air Circulates Heating, Compatible with 1.75/2.85mm PLA PETG ABS TPU Material	1	
C	38	Hot Air Gun	Working temperature: 60 – 550°C °C ; Airflow: 350 – 550 l/min ; Heat-up time: 1 min ; Cord Length: 2 m ; Overheat protection; Reducing Nozzle; 1800w input power	1	
C	39	Hot Air Gun	For Removing & Drying Paint Coats,Remelting Adhesives & Shrink Wrapping, 1800 Watts	4	
C	40	Magnifying Glass with Stand	Magnifying Lamp Table Clamping, 8 Diopter Magnification with External arm Springs	2	
C	1	Vernier Caliper	0-200 mm	4	
C	2	Digital Vernier Caliper	0-200 mm	1	
C	3	Vernier Height Gauge	0-300 mm	2	
C	4	Vernier Depth Gauge	0-300 mm	2	
C	5	Micrometer	0-50 mm	2	
C	6	Digital Micrometer	0-50 mm	1	
C	7	Hacksaw	300 mm	5	
C	8	Mini Hacksaw	150 mm	6	
C	9	Micro Chisel Set	For Wood, with Handle	2	
C	10	Chisel Set	Set of 9 Files @ (1/4), (5/16), (3/8), (1/2), (1), (1.1/4), (1.1/2), (3/4), (2) Inch ; Beveled Edge, for Wood, with Handle	2	
C	11	Long Nose Plier	Standard Size	2	
C	12	Combination Pilers	210 mm	2	
C	13	NeedleNose Plier	Standard Size	2	
C	14	Locking Plier	280 mm Locking Pliers Clamp with Swivel Pads vise/vice grip	2	
C	15	Files Sets	5-Piece File Set 200mm, Durable Carbon Steel Files, With Handles, For Metal Crafting, Deburring, Smoothing Surfaces	2	
C	16	Needle Files	6Pcs File Set, 5.5in Needle Files, 3 mm Diameter Carbon Steel File Kit with Handle, Suitable for Metal, Wood, Glass, Plastic, Leather, with Handle	2	
C	17	Pipe Vice	4 Inch	2	
C	18	C-Clamp	4 Inch, 6 Inch, 8 Inch (2 each)	6	
C	19	Bench Vice	60 mm	3	
C	20	Bench Vice	100 mm	3	
C	21	Carpentry Vice	6 Inch	5	
C	22	F-clamp	600 mm	2	
C	23	Corner Clamp	90° Right Angle Clamps/Corner Clamp	4	
C	24	Ratchet clamp	8 inches/ 200mm	4	
C	25	Ball Peen Hammer	200 gm and 500 gm (3 each), with Handle	2	

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Further, items mentioned in Part-A and Part-B must have 3 years of onsite / in-campus warranty.

Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
C	26	Steel Shaft Claw Hammer	Made from high carbon steel, cutting edges - induction hardened of 55 to 60 HRC, with handle	6	
C	27	Sledge Hammer	1 Kg, with Handle	2	
C	28	Straight Peen Hammer	250 gm, HSS	2	
C	29	Nylon Mallet	Nylon Mallet Hammer, 40 mm, Alloy Steel Handle	6	
C	30	Rubber Mallet	40 mm with handle	6	
C	31	Allen Key Set with Torque Handle	31-Piece Hex Key; Allen Wrench Set, SAE and Metric Allen Keys (0.7-10mm); SAE (0.028"-3/8); Heat-Treated	2	
C	32	Centre and Leather Punch	7 Drift Centre and Leather Punch Set (Multicolour), 7 Pieces	2	
C	33	Number and Alphabet Punch	6MM Steel Die Metal Stamping kit Punch Tool Number Letter Alphabet Stamps Tools	2	
C	34	Carpenter Pincer	Carpenters' Pincers 200mm	2	
C	35	Tri Square	8 Inch	5	
C	36	Stainless Steel Rule	6 Inch and 12 Inch both	10	
C	37	Rachet Set	1/4" + 1/2" Ratchet Set 57-Piece High Torque, Ergonomic Design & Versatile Tools	2	
C	38	Spanner Set	Combination Wrench; Orientation: Double Sided; Size: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22; Wrench Type: Set ; Chrome Vanadium Finish	2	
C	39	Ring Spanner Set	12 Ring Spanner Set	2	
C	40	Screwdriver sets	Alloy Steel, Magnetic Tip	2	
C	41	Wire Stripper (Automatic)	For stripping inner and outer sheaths on wires and cables; Adjustable wire stop; Spring loaded handles	5	
C	42	Circlip Plier Set	Forged high-quality high alloy steel; 7 Inch; Internal Bent and Straight Nose, External Straight and Bent Nose	2	
C	43	PVC Pipe Cutter	42 mm	2	
C	44	Multi Tool Kit	52-Piece Hand Tool Set Comes with Ergonomic Design, Durable & Rust-Resistant (1 x Extension Cord, 2 x Adapters, 1 x Wrench, 1 x Cutter, 1 x Tape measure, 1 x Spirit Level, 10 x Sockets & 1 Case, 3 x Pliers, 1 x 1/4 inch Ratchet, 1 x Screwdriver, 1 x Hammer, 9 x Hexagon Wrenches, 1 x Punch, 18 x Screw Bits)	5	
C	45	Anvil	Black Smith, 10 kg	1	
C	46	Hexagonal Anvil	Measure 1 7/8" width across with a thickness of 3/4"; Case hardened, Both surfaces and All sides - machine grinded smooth; 16 holes from 1.066 mm to 5.556 mm & center hole size of 6.40 mm; 5 slotted grooves with various widths from (0.385mm to 1.143mm) ; Hardness 45-50 HRC	5	
C	47	Router Bit Starter Kit	15 Pcs Straight Bit Set 8mm shank (Flush Trim Bit, Flush Pattern Bit, Dovetail Bit, Chamfer Bit, V-groove Bit, Slotting Cutter, Rebating Bit, Roman Ogee Bit, Cove Bit, Rounding Over Bit, Straight Bit (2-cutter), Straight Bit (3-cutter), Durable Plastic Storage Case	1	
C	48	Aviation Tin Cutter with Spring	Item Dimension: 60mm x 30mm x 20mm, Heat Treated	5	
C	49	Tin Cutter with Spring	10 Inch	5	
C	50	Diagonal Cutter	160mm (6") Diagonal Cutters with Soft-Grip Handle, Induction-Hardened Blades, with Matt Chrome Nickel-Plating	5	
C	51	Cutting Mats	A2 Cutting Mat Self Healing Sewing Mat, 3 mm thichness, 18" x 24" Rotary Cutting Mat 5-Layer Craft Board for Sewing, Quilting, and Scrapbooking Crafts Hobby Project Leather	7	
C	52	Glue Gun	300 Watts Multi-Temperature Electric Hot Melt Glue Gun With 5 Super Strong Gumming Glue Sticks	5	
C	53	Fish Tape	Electrical Fish Tape Flexible Professional Easy To Install Wire Pulling Tool Green	2	
C	54	Sealing Tape	Multiseal, Self-Adhesive tear-resistant sealing tape, Grey, 4 Inches x 9.84 Ft (10 cm x 3 Mtr)	2	
C	55	Flashlights	LED Mini Cob Keychain and Magentic Flashlight Portable USB Rechargeable Light, 3 Light Modes with Folding Bracket, Black, 1000 Lumen	20	
C	56	Solder wick	5 Feet, 3 mm	10	
C	57	Bottle Glass Cutting Kit	12Pcs Glass Bottle Cutter Tool Kit	2	
C	58	Glass Cutter	130mm/5/1/8" Glass Cutter	2	
C	59	Flat End Breaker Pliers	8 Inch ; Non-Slip Handle, Breaking / Cutting Glass Pliers	2	

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Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
C	60	Tile Divider Glass Separation Tool	Tile Glass Breaking Pliers, Tile Cutter Opener, Manual Tiles Breaking Plier, Glass Tile Nippers, opening pliers, Mosaics Strong Breaker, Spliting Glass, Tile Divider Glass Separation Tool	2	
C	61	Pegboards	Approx 12 Inch size (Metal = 2 and Plastic = 2)	4	
C	62	Goggle	For Welding,	5	
C	63	Apron	Industrial Standard Make	5	
C	64	Gloves Pair	Industrial Standard Make	5	
C	65	PCB Drill Bit	0.4, 0.8, 1 mm (2 each)	6	
C	66	Drill Bits Set	WAF(mm):1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7, 7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	1	
C	67	Carpentary Boring Bits (Kit)	Hex Shank Flat Drill Bit Set (10, 12, 16, 18, 20, and 25 mm) For Spade Boring In Wood, Plastic, PVC, Etc.	2	
C	68	Boring Forstner Drill Bit Set	Carbide Tipped Steel Bits for Wood, Plywood & Woodworking – with Carry Case (Sizes: 15, 20, 25, 30, 35mm)	2	
C	69	Electronic weighing machines	Electronic weighing machines ; 0.01G to 200G Small	1	
C	70	Electronic weighing machines	upto 10 Kg	1	

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Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
D	D	Part-D			
			Consumables		
D	1	Fire Extinguisher		4	
D	2	Gypsum	in Kg	10	
D	3	Acrylic Sheet	2 mm, 3mm, 4 mm, 5mm; 8x4 Ft (2 sheets of each; total of 08 sheets)	8	
D	4	Foam Sheets	8, 10, 12, 15mm; 8x4 Ft (2 sheets of each; total of 08 sheets)	8	
D	5	Ply Board	8, 12, 18 mm; 8x4 Ft (2 sheets of each; total of 06 sheets)	6	
D	6	Nylon Rods	12, 15, 18 mm; 1 m length of each (5 rods of each; total of 15 rods)	15	
D	7	Nuts (Various sizes)	3mm,4mm,5mm, 6mm,8mm,10mm, 12mm; One pack of each (approx. 100 Pc Pack), Total 07 Packs	7	
D	8	Bolts (Various Sizes)	3mm,4mm,5mm, 6mm,8mm,10mm, 12mm; One pack of each (approx. 100 Pc Pack), Total 07 Packs	7	
D	9	Screw (3,4,5 mm)	3mm,4mm,5mmOne pack of each (approx. 100 Pc Pack), Total 03 Packs	3	
D	10	Washers (various Sizes)	3mm,4mm,5mm, 6mm,8mm,10mm, 12mm; One pack of each (approx. 100 Pc Pack), Total 07 Packs	7	
D	11	Studs (6 ,8 1 m)	6 mm, 8 mm, 10 mm (1 Pck of each)	3	
D	12	Nails (1",2", 3")	0.5", 0.75", 1", 1.25", 1.5", 2", 3", 5" (1 pack of each; Pack of 100 Pc.); TOTAL 8 Pkt	8	
D	13	Adhesive # M Seal	5 Pc	5	
D	14	Adhesive # Feviquick	5 Pc	5	
D	15	Adhesive # Fevicoal	100 gm, 250 gm (2 each)	4	
D	16	2 Ways Tapes		10	
D	17	PVC Pipes	0.75, 1, 1.5, 2.5, 3 inches; 2 lengths of each, each length of 10 ft (Total 10 Pipe Lengths)	10	
D	18	Aluminum Channels	L, C, Box, (1, 1.5 and 2 Inch), ONE of each, each of 12 Ft length (Total 9 lengths)	9	
D	19	Radium Cutter Knives	Standard Sizes / Shapes with 3 different handles	6	
D	20	Glue Sticks	Small size	10	
D	21	Hack Saw Blades (6",12")	6 Inch and 12 Inch (one pack of each, 10 Pc in each Pack)	2	
D	22	Electronic Active & Passive Components	Resistors , Capisitors, Diodes and Transistors; Of all common / general used values (approx. 20 Pc each)		
D	23	LAN Cables	Standard Length	10	
D	24	USB Cables	Standard Length	10	
D	25	9V Battery Snaps	With DC Jack and with open wire (10 each)	20	
D	26	9V Battery	Rechargable	10	
D	27	9V Battery Charger	2 Batteries at a time	2	
D	28	Relay modules	Ethernet Controlled relay, Bluetooth controlled relay, Wi-fi controlled relay 8 Channel	10	
D	29	GPIO	Ethernet Controlled relay, Bluetooth controlled relay, Wi-fi controlled relay 8 Channel	10	
D	30	RFID Reader-Tags	Standard Ones	10	
D	31	RF Modules	Tx& Rx 315 MHz ASK	10	
D	32	Stepper motor with Driver Board	Standard Ones	10	
D	33	Servo Motor	360 rotation	10	
D	34	Servo Motor	180 rotation	10	
D	35	Metal Gear Servo Motor	(180° Rotation)	10	
D	36	Solder Flux		5	
D	37	Breadboard	830 Points Solderless	5	
D	38	Breadboard	400 Points Solderless	5	
D	39	Breadboard	Standard One	5	
D	40	Copper Clad Board	single side	10	

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Item Cat.	S. No.	Name of Apparatus / Equipment / Machine / Tool / Consumable	Specifications (for Tender Notice)	Qty	
D	41	Copper clad board	double side	10	
D	42	Breadboard Jumper	Male to Male	10	
D	43	Breadboard Jumper	Female to Female	10	
D	44	Breadboard Jumper	Male to Female	10	
D	45	Arduino UNO	Excellent Quality	10	
D	46	Arduino UNO R3	Excellent Quality	5	
D	47	Arduino UNO R4	Excellent Quality	5	
D	48	Arduino NANO	Excellent Quality	5	
D	49	Arduino Mega	Excellent Quality	5	
D	50	Raspberry Pi Model 4B, 4GB	Excellent Quality	5	
D	51	ESP8266 NodeMCU	Excellent Quality	5	
D	52	Beaglebone blu	Excellent Quality	5	
D	53	Beaglebone Black	Excellent Quality	5	
D	54	GSM/GPRS/GPS Module	Excellent Quality	10	
D	55	Piezoelectric Plate	Excellent Quality	10	
D	56	8*8 LED Matrix Module	Excellent Quality	10	
D	57	Vibrating Motor	Excellent Quality	10	
D	58	Flex Sensor	Excellent Quality	5	
D	59	Water Flow Sensor	Excellent Quality	5	
D	60	KIT-1	Official Arduino Sensor Kit - Base	2	
D	61	KIT-2	Roinco Multipurpose Starter Kit for Arduino IDE - Robotics For Beginners	2	
D	62	KIT-3	Quad Store 37 in 1 Sensor Modules Kit compatible with Arduino Raspberry Microcontrollers with box	2	
D	63	KIT-4	Robocraze 37 In 1 Ultimate Sensor Modules Kit for for boards compatible with Arduino, NodeMcu, Raspberry Pi, Robotics Projects	2	
D	64	KIT-5	REES52 Mini, Pir, Ultrasonic, Dht 11 Temperature, Ir Proximity1 Ultimate Sensor Modules Kit With Sound SensorUno R3, Mega 2560, rpi Pi and All Microcontrollers	2	
D	65	KIT-6	Quad Store 16in1 Sensor Modules Kit compatible with Arduino Uno R3, Mega 2560, Nano, Raspberry Pi with box	2	
D	66	KIT-7	Mechatron Robotics 20+ IOT Project Kit with Free Course	Science Kit	IOT Starter Kit	ESP32 IOT Board	IOT Sensors Electronics Kit	2	
D	67	KIT-8	WitBlox Clap Sensor Kit	DIY Sound-Activated STEM Kit for Kids Age 8,9,10,11,12	Make 6+ Projects: Clap Lamp, Clap Car, Lung Tester	Sound Sensor	2	
D	68	KIT-9	IoT & Home Automation Kit	17+ DIY Projects	Compatible with ESP32	Build Smart Home Devices, Sensors, Web Server & MIT App Control	2	
D	69	Quadcopter assembly kit	Quadcopter assembly kit	1	
D	70	Electrical Bicycles with accessories	Electrical Bicycles with accessories	1	