

Tender Notice

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

Equipments

S.no	Name	Required Specifications	Quantity
1.	Laser cutter	Working Area: Min 600 x 900 mm or above Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Upto 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000 mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415 V Accessories: CO2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 Nos	1
2.	Vinyl cutter	Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs or less Max cut size using machine mat: 11.5 inch x 23.5 inch or more Cut speed: up to 14.1 ips	1
3.	3D printer	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	1

		<p>PEI surface.</p> <p>Filament Diameter: 1.75mm (supports PLA, PETG, ASA, ABS, etc.).</p> <p>Extruder: Gearbox with 1/10 ratio,</p> <p>Speed : 550 MM/Sec or above</p> <p>Stepper Drivers for smooth motion. or equivalent</p> <p>Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors.</p> <p>LCD Screen: 3.5" graphic 65k color screen or larger.</p> <p>Connectivity: USB drive, LAN, or internet.</p> <p>Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments, and more.</p> <p>Wi-Fi Module: Built-in (network connectivity not required for setup or operation).</p> <p>Compatibility: Windows, macOS, Linux.</p> <p>Printer Dimensions: The maximum physical dimensions of the system 700 X 700 X 70 or above. Fully enclosed Machine</p>	
4.	3D scanner	<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</p> <p>1</p> <p>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 : USB2.0 or above</p> <p>Outdoor Scanning : Yes</p> <p>Output Formats : OBJ; STL; PLY; P3; 3MF</p> <p>Scanning 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</p>	

		web browser	
5.	CNC Router	<p>Working Area: Min 1300 x 2500 mm</p> <p>Z Axis Working Area: 200 or above</p> <p>Resolution: $\pm 0.03/300\text{mm}$ or more</p> <p>CNC Spindle: 3KW or more</p> <p>Lathe Structure : Welding Steel Structure or equivalent</p> <p>XYZ Structure: Rack Pinion , Ball Screw Linear Rails</p> <p>Max Spindle Speed : Min 18000RPM</p> <p>Table: T-Slot/Vacuum Bed/Water Bed</p> <p>Repeatability: ± 0.03</p> <p>Working Mode: Stepper Motor/Servo Motor</p> <p>Dust Collector : To be included by Vendor</p> <p>Voltage: AC 220V/415V, 50/60 Hz, 3 Phase</p>	
6.	Mini Desktop lathe cum	<p>Centre Width: Up to 400 mm or better</p> <p>Height of Centers: Up to 88 mm</p> <p>Maximum Workpiece Diameter: Up to 100 mm</p> <p>Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment</p> <p>Spindle: Supported with adjustable taper roller bearings</p> <p>Spindle Receiver: MK3 or compatible</p> <p>Spindle Drill Hole: Up to 22 mm or better</p> <p>Spindle Concentricity: Up to 5 microns or better</p> <p>Chuck: 3-jaw chuck as per DIN 6386, centrally clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns</p> <p>Sleeve Receiver: MK2, retractable sleeve with scale</p> <p>Spindle Speed Range: Between 50 to 2500 rpm</p> <p>Speed Stages: 6-8</p> <p>Motor Rating: 550W or better, induction motor, single phase 230V</p> <p>Traverse Cross: Up to 70 mm or better</p> <p>Traverse Longitudinal: Up to 300 mm or better</p> <p>Weight (Complete): Up to 55 kg or more</p> <p>Additional Accessories:</p> <p>Splash guard and chip collecting tray: 1 No.</p> <p>Cutter set with tungsten inserts: 2 Nos.</p> <p>Milling Attachment: 1nos</p> <p>Tungsten disposable tips ten-piece set: 1 No.</p> <p>Sample workpieces (Nylon Rod, Aluminium Rod)</p>	

		Desktop: 1 No.	
7.	Drilling machine 1 Hp motor	<p>Make : Reliable Machine Model: 1HPMC No Load Speed: 0 - 630 rpm Motor Power: 1 HP Max Torque: 11 Nm Drill Depth: 160 mm Drilling Diameter: 25mm Make: RMT Model: 1HP Driller</p>	1
8.	Handheld high speed drilling machine-1500 rpm with accessories -2 nos.	<p>Rated Input Power: Approximately 500 W or above maximum power consumption. Bit Holder: Standard 1/2"-20 UNF thread type. No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm. Power Output: Approximately 300 W continuous output power. Weight: Approximately 1.7 kg total device weight. Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4 Nm maximum torque output. Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread. Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.</p>	2
9.	Bench top grinder machine	<p>Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: upto 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less</p>	1
10.	Solder stations	<p>Power Rating: Approximately 60 W maximum output power. Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within ± 2 °C under normal operating conditions. Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance. Display: Digital or analog temperature display (depending on variant) for precise temperature control. Temperature Control: Adjustable via knob or digital interface with fine resolution. Power Supply: AC 220 V $\pm 10\%$, 50/60 Hz.</p>	3

		<p>Safety Features: Thermal cutoff and overload protection within required standards.</p> <p>Dimensions: Compact design with 100 mm × 100 mm × 90 mm (W × H × D) or above</p> <p>Weight: Approximately 1.5 kg for ease of portability and bench use.</p>	
11.	Desoldering M/C	<p>Model : 30W</p> <ul style="list-style-type: none"> • Power Source: Corded Electric • Wattage: 30 Watts • Special Feature: Portable • Included Components: Desoldering Iron solder tool • This desoldering Iron solder tool adopts durable and ceramic heater. Light weight with a heat resistant plastic handle. • Possessing fast and heat dissipation, withstanding high voltage and temperatures. • Iron plated tip and stainless steel construction for longer life. • 30W Desolder Iron 	
12.	Advanced motorised Sewing machine	<p>Motor: 120 W</p> <p>Max Sewing Speed: 860 SPM</p> <p>Power: 220 - 240 V</p> <p>Automation Grade: Automatic</p> <p>Max Stitch Length: 4mm</p> <p>Thread Type: Computerized</p> <p>Weight: 7.6 kg</p> <p>Number of Stitches: 120</p> <p>Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm</p> <p>Maximum Stitch Width: 7 mm</p> <p>Number of Buttonhole Styles: 7</p> <p>LCD Screen Display: Yes</p> <p>Bed Type</p> <p>Free Arm/Flatbed convertible</p> <p>Bobbin Type</p> <p>Drop & Sew Bobbin System</p>	
13.	Wood lathe	<p>Centre Width: Up to 400 mm or better</p> <p>Height of Centers: Up to 88 mm</p> <p>Maximum Workpiece Diameter: Up to 100 mm</p> <p>Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment</p> <p>Spindle: Supported with adjustable taper roller bearings</p> <p>Spindle Receiver: MK3 or compatible</p> <p>Spindle Drill Hole: Up to 22 mm or better</p> <p>Spindle Concentricity: Up to 5 microns or</p>	

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14.	Power tools	<p>Brand: Bosch</p> <p>Power Source: Corded Electric</p> <p>Maximum Rotational Speed: 2600 RPM</p> <p>Voltage: 240 Volts (AC)</p> <p>Maximum Chuck Size: 10 Millimeters</p> <p>Included Components: Tool</p> <p>Special Feature: Lightweight</p>	1
15.	Portable Welding M/C	<p>Welding Current (at 40°C, 10 min cycle): 120A @ 100%, 150A @ 60%, 200A @ 35%</p> <p>Supply Voltage: 240V +10%, -15%, 1 Phase, 50/60 Hz</p> <p>Open Circuit Voltage: 55V DC \pm5V</p> <p>Welding Current Range: 15–200 Amps DC</p> <p>Insulation Class: F Type</p> <p>Ingress Protection: IP21</p> <p>Dimensions (L×W×H) with Handle: upto 320×120×195 mm</p> <p>Weight (Approx.): 4.3 kg or less</p>	1
16.	Refrigerator	<p>Capacity:183L or more</p> <p>AnnualEnergyConsumption:148kWh/Year or less</p> <p>RefrigeratorFreshFoodCapacity:165L or more</p> <p>Freezer Capacity: min 18L</p> <p>BottleCount:5 or more</p> <p>NoiseLevel:40dB or less</p> <p>Installation Type: Freestanding</p>	1

17.	Normal and microwave oven	Oven Cap: 20L or more Type: Solo Door: Side Swing Child Lock: Yes Completion Beeper: Yes Power Levels: upto 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm):455×252×320 PowerOut:700W or less	1
18.	Magnifying glass with Stand	Make: Wagela Model: MSW Power adapter: Input 110-240V50/60Hz, Output: DC 4.8V 250mA. Welding holder size: length6.3cm/2.48in, Base size: 10 * 6.8cm / 3.94 * 2.68in (L * W). Features: Material: ABS + electronics material	2
19.	Digital microscope	Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080, 640*480 Pixel: 30W Focal length: 3-40mm manual adjustment Support Android 4.2 or above/widows/Mac system	1
20.	Mixed signal oscilloscope	Bandwidth: Up to 100 MHz Analog Channels: 4 or more Real-Time Sampling Rate: Maximum 1 GSa/s per channel Memory Depth: 10 Mpts per channel Waveform Update Rate: Approximately 120,000 wfms/s Vertical Resolution: 8 bits Vertical Scale: Ranging from 1 mV/div to 10 V/div Horizontal Scale: Spanning 1 ns/div to 100 s/div Spectrum Analyzer Frequency Range: DC to 500 MHz FFT Points: Up to 1M points for enhanced frequency domain resolution Waveform Math Functions: Includes addition, subtraction, multiplication, division,	

		<p>minimum, maximum, root, square, absolute, inverse, derivative, integral, and low-pass filter</p> <p>Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate Timeout, Event-Delay, Time-Delay, and Bus</p> <p>Arbitrary Waveform Generator (AWG): Dual-channel, 25 MHz, supporting various waveforms such as sine, square, pulse, ramp, DC, noise, sinc, Gaussian, Lorentz, exponential rise/fall, haversine, and cardiac</p> <p>AWG Sample Rate: 200 MSa/s</p> <p>AWG Vertical Resolution: 14 bits</p> <p>Display: 8-inch WVGA TFT LCD (800 × 480 pixels)</p> <p>Data Logging Capability: Up to 1000 hours</p> <p>Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval</p> <p>Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGo BNC</p> <p>Dimensions (W × H × D): 380× 200× 125 mm or above</p> <p>Weight: 2 Kgs or above</p> <p>Safety Compliance: Conforms to IEC 61010-1 and IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification</p>	
21.	Digital storage oscilloscope	<p>Number of Channels: Up to 2 independent analog inputs</p> <p>Memory Record Length: Up to 10 Mpts for extended waveform capture</p> <p>Bandwidth Limiting: Selectable 20 MHz bandwidth filter</p> <p>Sampling Rate: Maximum of 1 GSa/s real-time equivalent per channel</p> <p>Rise Time: ≤ 3.5 ns depending on probe and settings</p> <p>Display: 7" TFT color LCD with 800×480 resolution</p> <p>Time Base Range: From 5 ns/div to 100 s/div, user-adjustable</p> <p>Vertical Resolution: 8-bit digital resolution</p> <p>Trigger Modes: Automatic, Normal, and Signal-dependent triggering</p> <p>Maximum Input Voltage: 300 Vrms (within safety limits)</p> <p>Input Sensitivity: Within the range of 1 mV/div to 10 V/div</p> <p>Input Coupling Options: Selectable among AC,</p>	

		<p>DC, and Ground</p> <p>Trigger Coupling Modes: Configurable as AC, DC, High-pass, or Low-pass</p> <p>Physical Dimensions: Approximately 350 × 200 × 120 mm or above</p> <p>Unit Weight: 2.5 kg or above</p> <p>Input Impedance: Nominal 1 MΩ // 16 pF</p> <p>Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering, and AUTOSSET configuration for display scaling (time base/gain)</p> <p>Protocol Decoding Support: Capable of analyzing I2C, SPI, UART, CAN, and LIN communication protocols</p> <p>Standard Accessories: Includes mains power cable, user manual (digital format), and one GTL-16E probe per input channel</p>	
22.	Signal generator	<p>Output Function: The equipment shall provide output waveforms including sine, square, triangle, and TTL signals as required.</p> <p>Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz. For triangle waveform: approximately 0.1 Hz up to 1 MHz.</p> <p>Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz.</p> <p>Frequency Stability: The frequency stability shall be within ±20 ppm (parts per million).</p> <p>Frequency Accuracy: The frequency accuracy shall be maintained within ±20 ppm.</p> <p>Frequency Aging: Frequency aging shall not exceed ±5 ppm per annum.</p> <p>Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within ±20% at maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of ±10%.</p> <p>Attenuator: A single-step attenuator of -40 dB ±1 dB shall be provided.</p> <p>Display: A 6-digit LED display shall be incorporated for parameter indication.</p> <p>Output Control: Output shall be controlled via an ON/OFF selector switch.</p> <p>Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 110 V ±10%,</p>	

		<p>with frequency 50/60 Hz.</p> <p>Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0 °C to 40 °C.</p> <p>Dimensions: Maximum dimensions shall not exceed 255 mm (W) × 95 mm (H) × 295 mm (D).</p> <p>Weight: Maximum device weight shall be within 2.5 kg.</p>	
23.	Variable power supply	<p>Output Configuration: 4-channel design with independent electrical isolation across all outputs</p> <p>Channel Output Ranges:</p> <ul style="list-style-type: none"> • CH1 & CH2: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A • CH3: Variable range 0 to 5V supporting up to 1A • CH4: Output adjustable from 0 to 15V with a load current of up to 1A <p>Constant Voltage Operating Mode</p> <p>Line Regulation: $\leq 0.01\% + 3 \text{ mV}$ (approximate value within rated voltage range)</p> <p>Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across rated load variation)</p> <p>Ripple & Noise: $\leq 1 \text{ mVrms}$ across full bandwidth</p> <p>Constant Current Operating Mode</p> <p>Line Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Load Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Ripple Current: $\leq 3 \text{ mArms}$ (typical)</p> <p>Safety & Operational Features</p> <p>Output Control: Independent output ON/OFF switching functionality is required</p> <p>Voltage Resolution: Approximately 100 mV (*1)</p> <p>Current Resolution: Approximately 10 mA (*1)</p> <p>Display Parameters</p> <p>Display Units: Four separate displays required for individual channel status visualization</p> <p>Display Type: 4.3-inch LCD (color or monochrome as applicable)</p> <p>Functional Features</p> <p>Tracking Operation: Supported (required for synchronizing output behavior)</p> <p>Auto Series/Parallel: Supported (automatic internal reconfiguration required)</p>	1

		<p>Power Requirements Supply Input: 230V AC $\pm 10\%$, 50 Hz</p> <p>Mechanical Specifications Maximum Dimensions (W \times H \times D): Within 200 mm \times 100 mm \times 200 mm Maximum Weight: 10 kg or less</p>	
24.	Benchtop multi meter	<p>DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm(0.03\% \text{ rdg} + 4 \text{ digits})$. Input impedance: 10 M$\Omega$. 1 least three years product warranty</p> <p>AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm(0.5\% - 5\% \text{ rdg} + \text{digits})$ depending on frequency and range. Input impedance: 10 MΩ. DC Current: Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm(0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})$ depending on range. AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm(0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency. Resistance: Range: 500 Ω to 20 MΩ across 6 ranges. Accuracy: $\pm(0.1\% - 0.3\% \text{ rdg} + \text{digits})$ depending on range. Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μF. Accuracy: $\pm(2\% \text{ rdg} + 4 \text{ digits})$. Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold $< 5 \Omega$. Display: Dual 7-segment LED, 0.4" and 0.5". Power Source: AC 100/120/230 V $\pm 10\%$, 50/60 Hz. Dimensions & Weight: Approximately 251 \times 91 \times 291 mm; 2.6 kg.</p>	
25.	Projector	<p>Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1port (FirmwareUpdate/Copy OSD) Approx AnalogInput:D-Sub15pin:1port Digital Input: HDMI:1port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx 1 FNumber:1.44 Nominal</p>	1

		Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00–1.35(Digital Zoom Approx	
26.	Heavy duty laser printer	<p>Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm):409×398.5×267Approx Weight:9.7KgNominal PrintSpeed:Upto30ppm(A4Size)Approx Warranty:1 YearOn-Site PrintResolution:600×600dpi,HQ1200(2400× 600dpi) Quality Approx 2Sided-Duplex- PaperType:Plain,Thin,RecycledApprox 2Sided-Duplex-PaperSize:A4 PaperHandling:Tray#1- PaperType:Plain,Thin,Recycled Tray#1- MaxCapacity:Upto250Sheets(80g/m²)Approx PaperOutput:Upto100Sheets(80g/m²)FaceDo wnTray;OneSheetFaceUpTrayApprox Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%- 400%(In1%Steps)Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType:Plain,Thin,Recycled 2Sided-Duplex-CopyPaperSize:A4 Scan- ResolutionInterpolated:Upto19200×19200dp iApprox Scan- ResolutionGlass:Upto600×2400dpiApprox Connectivity:Hi-SpeedUSB2.0 DisplayType:16Chars×2Lines MemoryCapacity:32MBAprox PowerSource:220-240VAC50/60Hz PowerConsumption-Ready:Approx60W PowerConsumption-Sleep:Approx6.6W PowerConsumption-Off:Approx0.08W NoiseLevel:50dB(A)Approx</p>	1
27.	PCB milling machine	<p>Cutable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB,Copper glad, etc Table Size: 225 (X) × 150 (Y) mm or more Drive System: Stepping Motor (X, Y, Z Axis) Operating Speed: 800 mm/min Software Resolution: 0.01 mm/step Position accuracy : 0.01 to 0.02 mm Max Travel Speed (mm/sec)-58 (2.28 “) Drilling (mm)-0.2 -3.175</p>	

		(8-125 mil),Maximum Drilling Cycles/ Min-50 Spindle Motor: DC Motor Type 380 or More Spindle Speed: Adjustable 20,000 and above rpm or more Tool Chuck Type: Collet Interface: USB or cable, Control Commands: RML-1, NC code Power Supply: DC 24V, 2.5A (via AC 100– 240V, 50/60Hz adapter),Power Consumption: Approx. 50 W or more	
28.	Computer workstation in networking	CPU: INTEL CORE I7-12THGEN or Higher RAM:8GB+512GB SSD or more Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR	5
29.	Smart board	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4KUHDorHigher Brightness: Min 350 nits; Typ400nitsApprox Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms Viewing Angle: Approx178DegreesWide WorkingFrequency:1.5GHzNominal RAM:4GBOrMore InternalStorage:32GBMin OS: Android Based HDMI: 3Ports USB: 2Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20Approx Voltage:DC+5V±5%Range OPS: Optional	1
30.	Relay modules	Ethernet controlled relay, Bluetooth controlled relay, Wifi controlled relay 8 channel	1
31.	GPIO modules	Ethernet controlled relay, Bluetooth controlled relay, Wifi controlled relay 8 channel	1
32.	Electric bicycle motor and accessories	Industry standard	1
33.	Granite surface plate	(630 X630 X 80 mm grad “O”)	1

Consumables

S.no	Name	Specification	Quantity
1.	Vacuum cleaner	Rated Input Power: Approximately 1,100 W maximum power consumption. Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 liters capacity. Voltage, Electrical: Nominal 230 V AC supply. Container Volume (Gross): Approximately 15 liters total volume. Container Volume (Net, Water): About 8 liters capacity for water. Filter Surface Area: Around 2,300 cm ² effective filtration area. Airflow Rate (Turbine): Approximately 53 liters per second. Vacuum Pressure (Turbine): Up to 270 mbar vacuum pressure. Number of Wheels: Four wheels for mobility.	1
2.	Hot air gun	Rated Input Power: Approximately 1,800 W maximum power consumption. Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg. Working Temperature Range: Adjustable within approximately 60 °C to 550 °C. Heat-Up Time: Approximately 1 second to reach target temperature. Airflow: Adjustable within approximately 350 to 550 liters per minute. Airflow Control: Three selectable airflow settings.	2
3.	Measuring equipment	Vernier caliper 0-200/0.01), Vernier height gauge (0-1000mm), Micrometer 0-50, 50-1000/0.001 inside and outside), metal scale	1
4.	Fire extinguisher	Fire Extinguisher– Industrial Standard Make	3
5.	First aid box	First Aid Kit – Industrial Standard Make	2
6.	Clothes Iron	Make: Bajaj Model: DX-7 1000W • Non-stick coated golden color sole plate • Cool touch body with comfortable hand grip • Light weight and 360 degree swivel cord, Material - Plastic • Thermal fuse for safety • Power: 1000 watts	5
7.	Electronic component repository(-CR meter, variac etc)	Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts	

		<p>resolution on both primary and secondary displays.</p> <p>Basic Accuracy: Within $\pm 0.2\%$ under standard conditions.</p> <p>Test Frequencies: Six or eight selectable frequencies depending on model variant.</p> <p>Measurement Combinations: Up to 15 different measurement combinations available.</p> <p>Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ± 1 V.</p> <p>Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).</p> <p>Auto LCR Mode: Automatic identification and measurement of component types within supported ranges.</p> <p>Data Hold: Feature available to hold measured data on display.</p> <p>Interface: USB virtual COM port provided for remote communication capabilities.</p> <p>Software: Datalogging software available for data capture and analysis.</p>	

Non-recurring expenditure-Tools

S.no	Name	Specification	Quantity
1.	Hacksaw	<p>Blade Length: Approximately 10 inches nominal length.</p> <p>Handle Material: Constructed from metal as standard.</p> <p>Overall Length: Around 11 inches total length.</p>	2
2.	Microchisel set	<p>Model: Chisel set</p> <p>Size: standard</p> <ul style="list-style-type: none"> • Handle Material: Wood • Blade Edge: Chisel 	3
3.	Pliers	<p>Model: Pliers</p> <ul style="list-style-type: none"> • 8" Combination Pliers • 6" Nose Plier • 6" Diagonal Cutting Plier 	3
4.	Manual PCB drilling machine	<p>Make: Bullwark</p> <p>Model: Manual PCB Driller</p> <ul style="list-style-type: none"> • A keyless chuck accepts drill shanks up to 1.70mm. Come with an extra collet 	3

		<ul style="list-style-type: none"> • The HSS micro drill bit comes in 20 different sizes (0.30mm-1.60mm) • Accurate and Controlled drilling. 	
5.	PCB power drilling machine	Make: Aone Model: PCB Power Driller Power Source: Corded Electric Special Feature: Portable, Lightweight Style: Pencil	3
6.	Cordless drilling machines (2 Nos)	Torque (soft/hard/max.): Min 21/50/- Nm No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm Weight incl. battery: 1.3 kg or less Max. impact rate: 27,000 bpm Battery type: Lithium-Ion or equivalent Chuck capacity, min./max.: 1.5 / 13 mm Weight excl. battery: 0.99 kg Torque settings: 20+2 or better	2
7.	Jigsaw machines	Rated Input Power: Approximately 500 W maximum power consumption. Voltage, Electrical: Nominal 230 V AC supply. Saw Stroke Length: Approximately 20 mm stroke length. Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute). Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately -45° to 45° range.	1
8.	Power circular saw	Rated Input Power: Approximately 1,400 W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically 5,200 rpm. Weight: Around 4.1 kg	1
9.	Files set	Make: Bullwark Model: Files set	2

		sun needle file set steel 12 pcs, 4x160 mm length assorted shapes	
10.	File handles	Make: Bullwark Model: File Handles Bullwark' File Handle -Plastic 3" Length, For 4" & 6" Files	1
11.	Needle files	Make: Bullwark Model: Needle Files • Material: Carbon Steel • Dimensions: 5-1/2" x 3mm • Fine teeth cut:/Comes organized in a pvc pouch • No warranty • Shapes include: Round, equalling, tapered round, half round, barrette, crossing, knife, warding, square, and three square.	2
12.	Pipe vice	Make: Bullwark Model: Pipe Vice • Material: Carbon Steel • Style: Heavy • Item Weight: 3 Kilograms • Ideal for plumbing jobs and workshops • Heavy duty spindle	2
13.	Mini Hacksaw	Make: Bullwark Model: Mini Hacksaw Bullwark' Junior Saw Frame Wooden Handle, 6" Blade	5
14.	Ball peen hammer	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2
15.	Steel shaft claw hammer	Weight: Approximately 8 oz (220 grams) nominal weight. Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W × H) overall size	2
16.	Nylon mallet	Make: Bullwark Model: Nylon Mallet Bullwark' Nylon Hammer -Precision ppo Blow 30mm (1 1/4") Replaceable Tips, 370g, Light Weight, Hollow Head ash wood handle	5
17.	Rubber mallet	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2	2

		cm (L × W × H) overall size.	
18.	Allen key set 10pcs	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
	Allen key set 12pcs	BallKeySize:1/16",5/64",3/32",7/64",1/8" ,9/ 64",>5/32",3/16",7/32",1/4",5/16",3/8" Qty:12pcs/set	2
19.	Dremel multi tool kit	Make: Crown Model: Multi Tool Kit • Powerful 130W Motor • Compatible with all Dremel accessories & attachments • Variable speed: 10,000 - 33,000rpm • Collet lock • Twist Nose Cap for quick change of accessories • Replaceable brushes	2
20.	Double ended spanner sets	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1
21.	12 piece open ended spanner set	Weight: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
22.	Belt and disc sanding machine	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Titing Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm	1
23.	Scroll saw machine	Power input: 50 Watt Thickness of Cut: 50 mm (2 inch) Throat: 406 mm (16 inch) Length of Stroke: 18 mm (11/16 inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch)	1
24.	Tool wall covering perforator (3 pcs)	Make: Warner Model: Wall covering Perforator • Wallpaper roller	3
25.	Dremel moto saw	Make: Dremel Model: Moto Saw • Detachable Coping Function for handheld use to take the tool to the work piece • Auto Tensioning Quick Change™ mechanism for easy accessory change and optimal blade tensioning	1

		<ul style="list-style-type: none"> • Variable Speed Control for optimal cutting in a variety of materials • Fast Clamp Base attaches to various tables, benches and surfaces • Dust Port Adapter keeps line of sight clear and work space clean • Speed : 0-3, 600 RPM 	
26.	Bench grinding machine	Make: Stanley Model: STGB371 <ul style="list-style-type: none"> • Powerful 373 watts motor • Accepts cotton buffing and wire brush wheels • Sturdy cast iron base with rubber mounts • No Load Speed: 3450 RPM 	1
27.	Power return measuring tape	Make: Freemans Model: Measuring Tape Item Weight 0.45 Kilograms Blade Length 7.5 Metres Width 25mm Case Material Type Stainless Steel Blade Material ABS, High Carbon Steel, Polyvinyl Chloride	5
28.	Tri square 8"	Make: GSK Model: TRI Square <ul style="list-style-type: none"> • Precision-etched stainless steel blade. Heavy duty stainless steel blade will not rust or corrode. • Squares are best used as measurement tools and for marking 90° angles • Try Square are great for measuring right angles • Size – 8 Inch 	5
29.	Stainless steel rule	Make: TIA Model: Steel Scal <ul style="list-style-type: none"> • Style: 40 inch, 100 cm 1 meter • Graduation Range: 0-100 Centimeters • Double-sided laser printing • High quality stainless steel material 	5
30.	Digital vernier caliper	Make: SKADIOO Model: Vernier Caliper <ul style="list-style-type: none"> • Item Height: 0.1 Centimeters • Item Width: 2 Centimeters • Power Source: Battery Powered • Resolution: 0.01 inch • Included Components: 1 	5
31.	Spirit level	Make: Freemans Model: Spirit Level Freemans Spirit without Magnet 300mm	5

		(12"), 3 Vials. Pro Series, 45°, 90° & 180° Vials, Heavy Aluminium Section	
32.	Dremel cordless rotary tool	Rated Power Input: Approximately 175 W within nominal voltage range. Voltage: Operates within 220 to 240 V AC supply. Weight: Around 0.66 kg total mass. Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width. Depth: Roughly 4.3 cm depth dimension. No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm. Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick Change System: Equipped with multi chuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s ² measured vibration	
33.	GPIO power router	Brand : Bosch Model : GOF 130 Material Plastic, Metal Power Source Corded Electric Product Dimensions 28.5W x 16H Centimeters Item Weight 5.15 Kilograms Horsepower 28000 rev/month Maximum Rotational Speed 28000 RPM Base Type Plunge Manufacturer Bosch Model number 06016B70F0	1
34.	Sewing machine	Make: Akiara Model: Duo 520 Colour White Product Dimensions 32D x 33.5W x 17H Centimeters 12 Stitch Patterns, Sewing Machine For Home Tailoring With Zig Zag, Pico, Single Needle Sewing, Automatic Thread Rewind	1

35.	Impact drill	Make: Bosch Model: GSR 120 <ul style="list-style-type: none"> • Power Source: Corded Electric • Maximum Rotational Speed: 3000 RPM • Voltage: 240 Volts • Amperage: 14 Amps • Maximum Chuck Size: 13 Millimeters 	3
36.	Ratchet set	Make: Yato Model: Ratchet set Yato' Socket & Bit Set 1/4" Sq.Drive, 46 Pes. Set, 3 To 14mm Sockets, 25 Assorted Screw Driver Bits With Accessories In Blow Moulded Box, Ideal For Any Automobile Or Engineering Industry	2
37.	Router bit starter kit	Make: Bosch Model: GKF 550 <ul style="list-style-type: none"> • Powerful 550W motor and a higher rpm provides fast trimming and quality work 	1
38.	Scroll saw	Make: Ingco Model: 85W• Blade Material Alloy Steel <ul style="list-style-type: none"> • Surface Recommendation Indoor • Power Source Corded Electric • Special Feature Dishwasher Safe • nput power: 85W • No-load speed: 0-1450rpm 	1
39.	Hot air blower with soldering iron	Make: Soldron Model: Soldron 936 <ul style="list-style-type: none"> • ESD safe. • Microcontroller-based smart circuit design. • An integrated blower within the handheld unit. • Built-in temperature sensor for precise measuring. • Digitally Controlled. • Built-in cut-off sensor when placed on Cradle. • Rubber grip for non-slippery use. 	5
40.	Tin cutter with spring	Make: Bullwark Model: Tin cutter bullwark' Tin Cutter 10" Drop Forged, Heavy Duty, Pro Series	10
41.	Centrifugal blowers	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A).	1

		Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ± 3 dB	
42.	Screw driver sets	Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 1,500 rpm respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable settings.	1
43.	Cutting Mats	Make: Levin Model: Cutting Mats • Cutting Mat Double Sided, • Non-Slip, • Waterproof Hobby Mat, • Large PVC Rotary Cutting Mats for Crafts, Sewing, Quilting, Fabric, Scrapbooking.	5
44.	Micrometer	Make: Yuzuki Model: 25MIC • Item Height: 15 Centimeters • Item Width: 6 Centimeters • Micrometer 0-25MIC	5
45.	Glu gun	Make: AP Model: 20W • Glue gun comes with a copper nozzle, which leads to low melting points and strong stickiness. • It attains its maximum adhesive strength and dries in a few seconds. • Power Source: Corded Electric • Wattage: 20 Watts • Style: Trigger	5
46.	Air compressor	Make: Kaymo Model: 220W • Noise Level: 69 dB • Maximum Power: 1.5 Horsepower	1

47.	Allen set wrench	Make: Bullwark Model: Allen set wrench <ul style="list-style-type: none"> • Strength of Cr-V Steel • Black oxide finish for safety against corrosion • Sand blasted for a smooth surface • 26 piece Long-arm hex key 	5
48.	Combination plier	Weight: Approx 422g nom.wt. Size: 8"/200mm nominal	2
	Long nose plier	Weight: Approx 399g nom.wt. Size: 180mm/6" nominal	2
49.	Non-contact voltage tester(5 pcs)	Function: Non-contact AC voltage detection tester. Voltage Detection Range: Approximately 90 V to 1000 V AC. Detection Method: Capacitive, with visual and audible indication. Sensitivity: Adjustable sensitivity for different voltage ranges. Response Time: Instantaneous detection within standard operating conditions. Indicators: Bright LED indicators and audible beep for voltage presence. Operating Environment: Suitable for use in ambient temperatures from 0 °C to 40 °C. Power Source: Powered by standard batteries (typically 2 × AAA or equivalent). Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards. Dimensions: Compact, handheld design suitable for field use (approx. 150 mm × 30 mm × 25 mm). Weight: Lightweight, approximately 150 g for ease of portability.	5
50.	Wire stripper	Weight: Approx 281g nom.wt. Size: 130mm nominal	2
51.	Fish tape	Make: Bullwark Model: Fish tape <ul style="list-style-type: none"> • Handle Material: Road dia: 3mm • Provided in a high impact resistant casing 	2

		<ul style="list-style-type: none"> • Can be used for pulling wires in false ceilings, exposed and populated conduits • Provided with rod ends on both ends of tape, standard end fitments include 7mm flexi GUIDE and a Bullet pulling eye. 	
52.	Flash lights	Make: Bullwark Model: Flashlight Bullwark Flash Light - Rechargeable 3 Watts Strip Light & 1 Watt Spot Light LED 2 Hours Working, 2 Hours Charging, 3.7 Volt L-Ion Battery, 800mAh, 185 x 35 x 20 mm Size With Pocket Clip & Magnet, Micro USB Input	2
53.	DC regulated power supply	Make: SCIENTIFIC Model: PSD3304 Multi Output DC Regulated Power Supply: (DC 0 to 30V/2A ,0 to +/-15V /1A Tracking, 4.5 to 5.5 /5A)	3
54.	Solder wick	Make: CK Model: Solder wick Material: 100% Copper	10
55.	Filament dehydrater	Operating Temperature Range: Min 45°C–70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: upto 360° circulation Moving Speed: 300 mm/s or more Power Rating: 160 W Shipping Weight: 2.5 kg	
56.	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 Overall Dimensions: min 350×450 mm Machine Weight: upto 25 kg	
57.	Glass cutter	Make: Bullwark Model: Glass Cutter Applied to cutting stained glass and other craft and household uses. With antislip handle, for safety and comfortable grip Glass cutting head is replaceable and can 360-degree rotate	1

		Mini size,easy to carry around	
58.	Gypsum(10 Kg)	Make: Akshar Model: Gypsum <ul style="list-style-type: none"> • Industrial grade Gypsum • Versatile Application for drywall, plastering, and soil improvement • Achieve a smooth and even surface in construction 	1
59.	Digital multimeter(5 units)	Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: $\pm 0.5\%$ or ± 3 digits, whichever is higher AC Voltage Accuracy: Within $\pm 1\%$ + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: $\pm 1.5\%$ + 3 digits (approximate) AC Current Accuracy: $\pm 1.5\%$ + 3 digits (typical) Resistance Measurement: Up to 40 M Ω Resistance Accuracy: Estimated at $\pm 1.5\%$ + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: $\pm 5\%$ or ± 5 digits Operating Temperature Range: From 0°C up to approximately 40°C Storage Temperature Range: Between -30°C and 60°C Overall Dimensions (H×W×L): Approximately 183×91×49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	5
60.	C-clamp	Make: Bullwark Model: Clamp	10

		Bullwark C-Clamp -Drop Forged 2", Carbon Steel, Powder Coated	
61.	Ratchet clamp	Make: Bullwark Model: Ratchet ClampMAF Quick BAR CLAMP 20MM 10INCH	10
62.	Baby vice 60mm	Make: Bullwark Model: Baby Vice Bullwark Baby Vice -Bolt Base 60mm, 2 1/2", Precision Machined Unbreakable Steel, Powder Coated	5
63.	Bench vices	Make: Bullwark Model: Bench Vice • Heavy Duty Bench Vice • Replaceable Hardened Steel Jaws • Pre Drilled Holes to Bolt Down To Benchtop • Max Jaw Opening: 100mm	5
64.	Anvil	Make: Bullwark Model: Anvil • Weight: 20 Kg • S G Iron Casting	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 AICTEIDEA Lab. All prospective vendors are required to read and comply with these terms in their entirety.

1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order. The entire contract shall remain valid for a period of three (3) months from the date of award. Quotations submitted by bidders must remain valid for a minimum of 90 days from the final date of submission. Any quotation that does not meet this validity period will be considered non-compliant.

2. Bid Submission Guidelines

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

- Detailed Profile of the Bidder, highlighting experience and key competencies.
- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.
- Copy of submitted GST return (at least up to November 2024).
- Copy of valid PAN Card.

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

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

3. Technical Documentation and Compliance

The bidder must furnish complete technical documentation for each quoted item. This includes detailed product specifications, installation manuals, operation and maintenance manuals. The bidder is also required to submit a layout/design proposal aligned with the lab setup requirements, highlighting compliance points against the tender specifications. Original technical brochures or scanned versions of product catalogs should be submitted with the bid. Wherever available, URLs to the OEM's official product page should also be provided for cross-verification. Each bidder must clearly mention the make, model, and complete technical specifications for the equipment being offered. A compliance sheet responding to each technical requirement outlined in the tender must be prepared and duly signed.

4. Eligibility and Qualification Criteria

All bidders must be OEMs or authorized partners/distributors with valid authorization for the products they are quoting. Authorization letters must be submitted on the OEM's official letterhead. Bidders must demonstrate relevant experience by submitting a minimum of three Purchase Orders (executed within the last five years) for similar equipment supplied to academic, R&D, or industrial institutions. A list of at least five institutional clients (with contact information) must be provided as a reference. It is mandatory that the bidder or OEM has a registered support office in India to provide warranty and after-sales support. In the case of imported equipment, either the OEM or their authorized seller must submit a certificate confirming the presence of such a service support facility in India. The OEM must also submit a declaration confirming the availability of spare parts for the quoted products for a minimum of one year and authorize the bidder to participate in the tender.

5. Financial Criteria

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

customs, etc.), transportation, packaging, insurance, unloading, installation, commissioning, and training charges. There shall be no extra claim under any circumstances after the finalization of the bid. The quoted prices must be firm and fixed throughout the duration of the contract. No escalation in price will be allowed under any pretext.

6. Evaluation and Award of Contract

All bids will be evaluated on the basis of compliance with the technical specifications, completeness of submitted documentation, financial eligibility, and price competitiveness. The contract shall be awarded to the bidder whose offer is determined to be technically responsive and lowest in cost. The purchaser reserves the absolute right to reject any or all bids without assigning any reason. The final decision on selection will be at the sole discretion of the purchaser and shall be binding on all parties.

7. Warranty and After-Sales Service

All equipment must carry a minimum onsite warranty of at least three years from the date of successful installation and commissioning. During this warranty period, the bidder shall repair or replace any defective items at no additional cost to the purchaser. All associated transportation, testing, and labor costs shall be borne by the bidder. In case of any service delay or failure to resolve issues during the warranty period, the purchaser reserves the right to invoke penalties or reject future business from the vendor.

8. Payment Terms

Payment shall be released only after the successful supply, installation, and commissioning of the equipment. Final inspection and acceptance will be carried out by the purchaser's technical committee. No payment shall be made for equipment that is received in damaged condition, is non-functional, or fails to meet the required specifications. The bidder must submit all necessary documentation (delivery challans, installation report, warranty documents, training certificate, invoice, etc.) to process payment.

9. Other Conditions

No bidder shall be given preference based on category, class, or affiliation. The procurement may be extended to additional phases (e.g., Phase II) depending on availability of funds and institutional requirements. Delayed delivery or installation may result in cancellation of order or imposition of penalties, as deemed fit by the purchaser. The scope of the supply and service must be entirely as per the BoQ and technical specifications. Bids with partial compliance or deviations shall not be entertained.

10. Submission Deadline and Contact Details

All quotations must be submitted by 20/08/2025-5.30 pm to the mail ID:
idealab@kavery.org.in

Sent in hard copy to:

The Kavery Engineering College
Mecheri, Salem-636453
Contact: Dr.A.Sheela, 9842782076
Email: **idealab@kavery.org.in**