



**SIDDHARTH INSTITUTE OF
ENGINEERING & TECHNOLOGY, PUTTUR**
(AUTONOMOUS)

Tender Ref. No: SIETK/2025-26/Idea Lab/01

Date: 26-08-2025.

Call for Quotation/Tender

Sealed or Online Quotations are invited from reputed OEMs/firms/suppliers for the supply of the following equipment, tools, and consumables, for AICTE-IDEA Lab as per the specification, (list annexed herewith) for the financial year 2025-26 to: **The Principal, Siddharth Institute of Engineering & Technology, Puttur, Tirupati District, Andhra Pradesh.**

Mere submission of quotation/lowest price for the process doesn't ensure any assurance for the work/purchase order. Quotation(s) must be separately submitted in original, clearly mentioning validity period for approved rates (basic price), all levies, taxes, installation charges, warranty period (Minimum 3 years from the date of installation), discounts (if any), etc. along with any other costs thereon; failing which quotation will not be considered. Following documents (mandatory), must also be furnished along with the quotation(s)

1. Date of Establishment of the firm
2. Experience Certificate (certificate from the customers/clients dated not more than 3 years)
3. PAN/TAN, valid Trade License
4. One Cancelled Cheque.
5. GST Reg. No.
6. IT return of last 3 years
7. Details of the institutions for which equipment is supplied earlier (AICTE-IDEA Lab in particular).

Quotations must contain the details of the aforementioned requirements along with other relevant information and terms & conditions (if required).

Lead Time of delivery must be clearly mentioned to avoid rejection. Late Delivery Clauses will be applicable in such cases, arbitration of which will be conducted in jurisdiction of institute's choice, as will be mentioned in Purchase Order.

No prescribed form relating to the quotation submission is compulsorily expected by the college. A self-made format is acceptable.

Payment will be made either by cheque or online by the institution after successful completion of the work (delivery, complete installation and satisfactory demonstration).

The quotation(s) clearly super scribed "QUOTATION FOR AICTE- IDEA LAB" should reach the Office of The Principal on or before 17.00 Hrs of 06-09-2025.

The quotations may also be sent to the principal.f6@jntua.ac.in with a cc to idealab.sietk.f6@gmail.com. The quotation documents are non-refundable. **After receiving the Work/Purchase Order, the selected suppliers will be required to submit proforma invoice for items.**

The Principal (Chief Mentor, AICTE-IDEA lab) Siddharth Institute of Engineering & Technology, reserves the right to accept/reject any quotation without assigning any reason thereof.

For display in college website & for wide circulation.


PRINCIPAL
Siddharth Institute of Engineering & Technology
(AUTONOMOUS), Siddharth Nagar,
PUTTUR - 517 583, Tirupati Dist. A.P.



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Puttur-517583, Tirupati District, A.P,(India).

LIST OF EQUIPMENTS WITH SPECIFICATIONS

S. No	Equipment	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D Printer	Branded Company Product with at least three years of product warranty	Build volume: 305×305×280 mm Layer Thickness: 0.05-0.4 mm Print Precision: ±0.2 mm Core XY, Enclosed, Hot end :3700C Heated bed :1200C Multiple nozzle sizes (0.2, 0.4, 0.5, 0.8 mm) Dual-sided textured PEI plate, Filament 1.75 mm, supports many materials, such as PC, PA, ASA, ABS, and carbon/glass-fiber, Hardened direct-drive gears composites, 5" HD Touchscreen, Connectivity: USB, LAN, Wi-Fi, Enclosed, Max Dimensions: ~700 mm	1
2	PCB Milling Machine	Branded Company Product with at least three years of product warranty	Cutttable 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: 0.01mm/step Position accuracy: 0.01 to 0.02mm Max Travel Speed(mm/sec)-58(2.28") Drilling (mm)-0.2 -3.175 (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: DC24V,2.5A (viaAC100– 240V, 50/60Hz adapter) Power Consumption: Approx 50W or more	1
3	CO2 Laser Cutting Machine	Branded Company Product with at least three years product warranty	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: Up to 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 25 mm: 3 Nos. Acetone: 1 litreacrylic sheet: 2 No's	1



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4	Vinyl Printer	Branded Company Product with at least three years product warranty	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
5	3D Scanner	Branded Company Product with at least three years product warranty	Technology: Stereo camera, structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5 GHz 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 Distance: Effective Working Distance: 160mm-1400mm Scan Speed: 980,000 points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan: Yes Interface: USB 2.0 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: Up to 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web browser	1
6	Lathe Machine cum milling	Branded Company Product with at least three years product warranty	Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Work piece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8	1



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			<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: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos.</p> <p>Milling Attachment: 1nos</p> <p>Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminum Rod)</p> <p>Desktop: 1 No.</p>	
7	CNC Router	Branded Company Product with at least three years product warranty	<p>X, Y, Z, Working Area (Minimum): 1300x2500x200 mm</p> <p>X, Y, Z Positioning Accuracy: $\pm 0.03/300$ mm</p> <p>X, Y, Z Repeatability: ± 0.05mm X,Y, Accuracy <0.01mm</p> <p>Structure: Ground Stress - Relieved Steel Base</p> <p>X, Y, Axis: Imported Guide ways & Rack & Pinion</p> <p>Z Axis Imported Guide ways & Ball bearing Screws with anti-backlash ball nut</p> <p>Spindle Power (Minimum): 3.0 Kw HSD - Italy servo-spindle</p> <p>Travel Speed: 0-32,000mm/min</p> <p>Cutting Speed: 0-20,000mm/min</p> <p>Spindle Speed: 0-18000 rpm</p> <p>Drives: All 3-axis micro stepper or Servo Japan</p> <p>Voltage: AC220V/50-60Hz</p> <p>Interface & Flash Memory: Printer Port 50pin and USB, 32MB</p> <p>Collets: $\varnothing 3.175$, $\varnothing 4$. $\varnothing 6$ & 12.75 (Minimum)</p> <p>Cutters: 20 Nos (Minimum)</p> <p>Software: Compatible Software with Perpetual License</p> <p>Spindle cooling: Air cooled/ water cooled</p> <p>Working table: Aluminum profile with T slot</p> <p>Control system: DSP A11 and higher</p> <p>Guide rail: 20mm linear square guide rail</p> <p>Dust collector system</p> <p>Motor Power: 2.2kw</p> <p>Air Delivery(m³/h): 2300</p> <p>Air Speed(m/s): 20-25</p> <p>Inlet Size(mm): $\varnothing 4$"x3</p> <p>Collect Bag(pcs): $\varnothing 480$x2</p> <p>Overall Size (mm): 1000x500x2050</p>	1



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8	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450 rpm or more Belt Size: 100 x 914 mm or less Disc Size: 150mm or better Table Tilting Range: 0°-45° Belt Tilting Range: 0°-90° Table Size: up to 190 x 125 mm	1
9	Scroll Saw	Branded Company Product with at least three years product warranty	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
10	Wood Turning Lathe	Branded Company Product with at least three years product warranty	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
11	Bench Top Drill Machine	Branded Company Product with at least three to five years of Warranty	Continuous rating input: Max. 250 W Capacity: Steel: Min 13 mm (1/2") Wood: Min 24 mm (15/16") No Load Speed (RPM): 570, 890, 1,300, 1,900, 2,670(50 Hz), 690, 1,070, 1,560, 2,280, 3,200(60 Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75 m (5.7 ft) Additional Accessories: Bench Vise: 1 No., Drill Bit Set 10 Pcs: 1 No	1
12	Portable Welding Machine	Branded Company Product with at least three to five years of Warranty	Welding Current (at 40°C, 10 min cycle): 120A @ 100%, 150A @ 60%, 200A @ 35% Supply Voltage: 240V +10%, -15%, 1 Phase, 50/60 Hz Open Circuit Voltage: 55V DC ±5V Welding Current Range: 15200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: Up to 320×120×195 mm Weight (Approx.): 4.3 kg or less	1
13	Computerized Sewing Machine	Branded Company	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic	1



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		Product with at least three years product warranty	Max Stitch Length: 4mm Thread Type: Computerized Weight:7.6 kg Number of Stitches:120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles: 7 LCD Screen Display: Yes Bed Type:Free Arm/Flatbed convertible Bobbin Type: Drop & Sew Bobbin System	
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	Operating Temperature Range: Min 45°C– 70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: Up to 360° Circulation Moving Speed: 300 mm/s or more Power Rating: 160 W Shipping Weight: 2.5 kg	1
15	Reflow Oven	Branded Company Product with at least three years product warranty	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 Overall Dimensions: min 350×450 mm Machine Weight: Up to 25 kg	1
16	Digital multimeter	Branded Company Product with at least three years product warranty	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 μ F 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	5



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			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	
17	MSO 100 MHz	Branded Company Product with at least three years product warranty	<p>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, minimum, maximum, root, square, absolute, inverse, derivative, integral, and low-pass filter Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate,</p>	1
18	Digital oscilloscope	Branded Company Product with at least three years product warranty	<p>Timeout, Event-Delay, Time-Delay, and Bus 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 AWG Sample Rate: 200 MSa/s AWG Vertical Resolution: 14 bits Display: 8-inch WVGA TFT LCD (800 × 480 pixels) Data Logging Capability: Up to 1000 hours Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGoBNC. Dimensions (W × H × D): 380× 200× 125 mm or above Weight: 2 Kgs or above 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. Number of Channels: Up to 2 independent analog inputs Memory Record Length: Up to 10 Mpts for extended waveform capture Bandwidth Limiting: Selectable 20 MHz bandwidth filter</p>	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
			<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, 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 AUTOSET 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>	
19	Power supply	Branded Company Product with at least three years product warranty	<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 Line Regulation: $\leq 0.01\% + 3$ mV (approximate value within rated voltage range)</p> <p>Load Regulation: $\leq 0.01\% + 3$ mV (across rated load variation)</p> <p>Ripple & Noise: ≤ 1 mVrms across full bandwidth</p> <p>Constant Current Operating Mode Line Regulation: $\leq 0.2\% + 3$ mA</p>	1



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			<p>Load Regulation: $\leq 0.2\% + 3 \text{ mA}$ Ripple Current: $\leq 3 \text{ mA rms}$ (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> <p>Power Requirements</p> <p>Supply Input: 230V AC $\pm 10\%$, 50 Hz</p> <p>Mechanical Specifications</p> <p>Maximum Dimensions (W \times H \times D): Within 200 mm \times 100 mm \times 200 mm</p> <p>Maximum Weight: 10 kg or less</p>	
20	Function Generator	Branded Company Product with at least three years product warranty	<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.</p> <p>For a 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 $\pm 20 \text{ ppm}$ (parts per million).</p> <p>Frequency Accuracy: The frequency accuracy shall be maintained within $\pm 20 \text{ ppm}$.</p> <p>Frequency Aging: Frequency aging shall not exceed $\pm 5 \text{ ppm}$ 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 $\pm 20\%$ at the maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of $\pm 10\%$.</p>	1



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			<p>Attenuator: A single-step attenuator of $-40 \text{ dB} \pm 1 \text{ dB}$ 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 $\pm 10\%$, 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) \times 95 mm (H) \times 295 mm (D).</p> <p>Weight: The Maximum device weight shall be within 2.5 kg.</p>	
21	Bench Top Multimeter	Branded Company Product with at least three years product warranty	<p>DC Voltage: Range: 500 mV to 1000 V across 5 ranges.</p> <p>Accuracy: $\pm (0.03\% \text{ rdg} + 4 \text{ digits})$.</p> <p>Input impedance: 10 MΩ.</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.</p> <p>DC Current: Range: 500 μA to 20 A across 6 ranges.</p> <p>Accuracy: $\pm (0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})$ depending on range.</p> <p>AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges.</p> <p>Accuracy: $\pm (0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency.</p> <p>Resistance: Range: 500 Ω to 20 MΩ across 6 ranges.</p> <p>Accuracy: $\pm (0.1\% - 0.3\% \text{ rdg} + \text{digits})$ depending on range.</p> <p>Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V.</p> <p>Capacitance: Range: 5 nF to 50 μF. Accuracy: $\pm (2\% \text{ rdg} + 4 \text{ digits})$.</p> <p>Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold.</p> <p>Continuity Beep: Threshold $< 5 \Omega$.</p> <p>Display: Dual 7-segment LED, 0.4" and 0.5".</p> <p>Power Source: AC 100/120/230 V $\pm 10\%$, 50/60 Hz.</p> <p>Dimensions & Weight: Approximately 251 \times 91 \times 291 mm; 2.6 kg.</p>	1
22	Non-Contact Voltage Tester	Branded Company Product with at least three years product warranty	<p>Function: Non-contact AC voltage detection tester.</p> <p>Voltage Detection Range: Approximately 90 V to 1000 V AC.</p> <p>Detection Method: Capacitive, with visual and audible indication.</p>	5



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			<p>Sensitivity: Adjustable sensitivity for different voltage ranges.</p> <p>Response Time: Instantaneous detection within standard operating conditions.</p> <p>Indicators: Bright LED indicators and an audible beep for voltage presence.</p> <p>Operating Environment: Suitable for use in ambient temperatures from 0 °C to 40 °C.</p> <p>Power Source: Powered by standard batteries (typically 2 × AAA or equivalent).</p> <p>Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards.</p> <p>Dimensions: Compact, handheld design suitable for field use (approx. 150 mm × 30 mm × 25 mm).</p> <p>Weight: Lightweight, approximately 150 g for ease of portability.</p>	
23	LCR Meter	Branded Company Product with at least three years product warranty	<p>Display: Approximately 2.8" TFT touch LCD screen.</p> <p>Resolution: 25,000 or above counts 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: Data logging software is available for data capture and analysis.</p>	1
24	Soldering Station	Branded Company Product with at least three years product warranty	<p>Power Rating: Approximately 60 W maximum output power.</p> <p>Temperature Range: Adjustable from approximately 200 °C up to 480 °C.</p> <p>Temperature Stability: Within ± 2 °C under normal operating conditions.</p>	5



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			<p>Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance.</p> <p>Display: Digital or analog temperature display (depending on variant) for precise temperature control.</p> <p>Temperature Control: Adjustable via knob or digital interface with fine resolution.</p> <p>Power Supply: AC 220 V \pm10%, 50/60 Hz.</p> <p>Safety Features: Thermal cutoff and overload protection within required standards.</p> <p>Dimensions: Compact design with 100 mm \times 100 mm \times 90 mm (W \times H \times D) or above</p> <p>Weight: Approximately 1.5 kg for ease of portability and bench use.</p>	
25	Digital Microscope	Branded Company Product with at least three years product warranty	<p>Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920\times1080, 640*480 Pixel: 30W</p> <p>Focal length: 3-40mm manual adjustment.</p> <p>Support Android 4.2 or above/Windows/Mac systems</p>	1
26	Soldering Rework Station	Branded Company Product with at least three years product warranty	<p>Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 $^{\circ}$C to 480 $^{\circ}$C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within \pm2 $^{\circ}$C.</p> <p>Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 $^{\circ}$C to 450 $^{\circ}$C range, multiple nozzles included.</p> <p>Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits.</p> <p>DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current, plus 5 V USB output for auxiliary power.</p> <p>Control: Microcontroller-based system with LED indicators for temperature and mode selection.</p> <p>Safety: ESD-safe design compliant with applicable standards.</p> <p>Build: Metallic body with powder coating, approximate dimensions 280 mm \times 180 mm \times 140 mm (W \times H \times D).</p> <p>Weight: Approximately 3.5 kg.</p> <p>Power Source: AC 220 V \pm10%, 50/60 Hz.</p> <p>Accessories: Includes soldering iron with needle bit, hot air blower with 3 nozzles, iron stand with sponge, hot air cradle, patch cord, and power cord.</p>	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
			Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C	
27	Hand Drill Machine	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 500 W or above, maximum power consumption.</p> <p>Bit Holder: Standard 1/2"-20 UNF thread type.</p> <p>No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm.</p> <p>Power Output: Approximately 300 W continuous output power.</p> <p>Weight: Approximately 1.7 kg total device weight.</p> <p>Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm.</p> <p>Rated Torque: Approximately 1.4 Nm maximum torque output.</p> <p>Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread.</p> <p>Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.</p>	2
28	Cordless drill	Branded Company Product with at least three years product warranty	<p>Torque (soft/hard/max.): Min 21/50/- Nm</p> <p>No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm</p> <p>Weight incl. battery: 1.3 kg or less Max. impact rate: 27,000 bpm</p> <p>Battery type: Lithium-Ion or equivalent</p> <p>Chuck capacity, min./max.: 1.5 / 13 mm</p> <p>Weight excl. battery: 0.99 kg</p> <p>Torque settings: 20+2 or better</p>	1
29	Jig Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 500 W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230 V AC supply.</p> <p>Saw Stroke Length: Approximately 20 mm stroke length.</p> <p>Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute).</p> <p>Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately -45° to 45° range.</p>	1
30	Miter Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1,750W maximum power consumption.</p> <p>Saw Blade Diameter: Approximately 254 mm nominal diameter.</p> <p>Mitre Setting: Adjustable up to approximately 47° left and 52° right.</p>	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
			Bevel Setting: Adjustable up to approximately 45° left and 0° right. Saw Blade Bore Diameter: Approximately 25.4 mm standard bore. Cutting Capacity at 0°: Approximately 90 mm × 130 mm maximum cross-section. Cutting Capacity at 45° Meter: Approximately 90 mm × 91 mm maximum cross-sections. Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-sections. Tool Dimensions (W×L×H): Approximately 477 mm × 559 mm × 567 mm. No-Load Speed: Fixed at approximately 5,000 rpm. Weight: Approximately 11.1 kg.	
31	Hot Air Gun	Branded Company Product with at least three years product warranty	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.	5
32	Table saw	Branded Company Product with at least three years product warranty	Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm, Weight 24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting height 45°: 55 mm	1
33	Bench grinder	Branded Company Product with at least three years product warranty	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: Up to 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
34	Angle Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 670 W maximum power consumption. No-Load Speed: Approximately 11,000 rpm. Disc Diameter: Approximately 100 mm nominal diameter. Grinding Spindle Thread: Standard M10 thread. Weight: Approximately 1.5 kg. Switch: Lockable switch for operational safety.	1
35	Straight Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, Electrical: Nominal 230 V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Up to 25 mm. Maximum Collet Diameter: Up to 8 mm. Switch: Lockable switch for enhanced safety.	1
36	Circular Saw	Branded Company Product with at least three years product warranty	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
37	Blower	Branded Company Product with at least three years product warranty	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). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ± 3 dB	1
38	Cordless Screwdriver	Branded Company Product with at least three years product warranty	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 setting.	1
39	Vacuum Cleaner	Branded Company Product with at least three years product warranty	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.	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
			<p>Container Volume (Gross): Approximately 15 liters total volume.</p> <p>Container Volume (Net, Water): About 8 liters of capacity for water.</p> <p>Filter Surface Area: Around 2,300 cm² effective filtration area.</p> <p>Airflow Rate (Turbine): Approximately 53 liters per second.</p> <p>Vacuum Pressure (Turbine): Up to 270 mbar vacuum pressure.</p> <p>Number of Wheels: Four wheels for mobility.</p>	
40	Random orbit sander	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Up to 280 W maximum consumption.</p> <p>Sanding Pad Diameter: Nominal 125 mm diameter.</p> <p>Orbit Diameter: Approximately 2.6 mm orbital diameter.</p> <p>Weight: Around 1.4 kg.</p> <p>No-Load Speed: Adjustable within a 7,500 to 12,000 rpm range.</p> <p>Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm).</p> <p>Eccentricity: Approximately 1.3 mm.</p>	1
41	Planer	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Not exceeding 710 W under nominal operating conditions.</p> <p>Planer Width: Approximately 82 mm effective width capacity.</p> <p>Planer Depth: Within the range of up to 2.6 mm maximum depth per pass.</p> <p>Weight: Circa 2.8 kg total unit mass.</p> <p>Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm.</p> <p>No-Load Speed: Operating speed is typically around 18,000 rpm.</p>	1
42	Cordless Vacuum Cleaner with Starter Kit	Branded Company Product with at least three years product warranty	<p>Battery Voltage: Rated at approximately 18.0 V nominal voltage.</p> <p>Weight Excluding Battery: Around 1.3 kg without battery attached.</p> <p>Container Volume: Approximately 0.7 liters net capacity.</p> <p>Filter Surface Area: Roughly 55 cm² filtration surface.</p> <p>Maximum Airflow Rate (Turbine): Up to 10 liters per second.</p> <p>Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions.</p> <p>Operating Time (18 V Battery): Typically, 7 minutes per Ah of battery capacity.</p>	1



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S. No	Equipment	Preferred brands if any	Specifications	Qty
43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	Rated Power Input: Approximately 175 W within the nominal voltage range. Voltage: Operates within a 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 a multi-chuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s ² measured vibration	1
44	Rubber Grip Hacksaw	Very Good Quality	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	2
45	Hacksaw Mini	Very Good Quality	Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Very Good Quality	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
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2
48	Rubber mallet	Very Good Quality	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	2
49	Ring spanner set 12Pcs	Very Good Quality	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1
50	Open-end spanner set 12Pcs	Very Good Quality	Weight: Approx 1.74Kg nom.wt Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
51	Combination Spanner set 8Pcs	Very Good Quality	Weight: Approx 649g nom.wt Qty: 8pcs/set.	1
52	Allen key set 10pcs	Very Good Quality	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
53	Allen key set 12pcs	Very Good Quality	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



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S. No	Equipment	Preferred brands if any	Specifications	Qty
54	Combination plier	Very Good Quality	Weight: Approx 422g nom. wt Size: 8"/200mm nominal	2
55	Long nose plier	Very Good Quality	Weight: Approx 399g nom. wt Size:180mm/6" nominal	2
56	Circlip straight 5"	Very Good Quality	Weight: Approx 399g nom. wt Size:130mm/5" nominal	2
57	Circlip bent	Very Good Quality	Weight: Approx 399g nom. wt Size: 130mm/5"" nominal"	2
58	Diagonal Cutter	Very Good Quality	Weight: Approx 239g nom .wt Size:180mm nominal"	2
59	Wire Stripper	Very Good Quality	Weight: Approx 281g nom. wt Size:130mm nominal	2
60	Adjustable spanner	Very Good Quality	Size: Up to 150 mm	2
61	Pipe wrench	Very Good Quality	Size: Max 300 mm	2
62	C – clamp	Very Good Quality	Size: Up to 75 mm	4
63	C-clamp	Very Good Quality	Size: Up to 150 mm	4
64	Snap- off Knife	Very Good Quality	Size:18 mm	2
65	16pcs screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	5
66	6pcs precision screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	5
67	Max steel snip cutter	Very Good Quality	Length: 250 mm	2
68	PVC Pipe cutter	Very Good Quality	Length: 42 mm	2
69	Hot Glue Gun	Very Good Quality	Power: 40 W	4
70	Small file set	Very Good Quality	Length: 160 mm	2
71	Big file set	Very Good Quality	Length: 200 mm	2
72	Chisel set	Very Good Quality	Weight: 340 gm	2
73	Punch set	Very Good Quality	Weight: 390 gm	2



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S. No	Equipment	Preferred brands if any	Specifications	Qty
74	Bench wise	Very Good Quality	Base Type: Fixed Size:2-3½" nominal JawWidth:60mm	2
75	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Very Good Quality	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 Wt.: ~1.3Kg nom. wt Sz(mm):205×115×55 overall	2
77	Baby wise	Very Good Quality	Vice Type: Bench Size: 2" nominal Jaw Width: 50mm	2
78	Ratchet Set	Very Good Quality	Vice Type: Bench Size:2" nominal; Jaw:50mm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Caliper Meas.Range:0-150mm / 0-6" Resolution:0.01mm	2
81	Micrometer	Very Good Quality	Resolution:0.001mm/0.00005" Meas.Range:0-25mm/0-1"	1
82	Steel Rule 300mm	Very Good Quality	Product Type: Steel Rule Scale Size:12"/300mm Material: Stainless Steel	5
83	Steel Rule 600mm	Very Good Quality	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5
84	Engineering Square	Very Good Quality	Size:150 × 80 mm nominal Material: Carbon Steel	2
85	Meter Tape 30m	Very Good Quality	Length: 30 m	1
86	Measuring Tape 3M	Very Good Quality	Length: 3 m	3
87	Measuring Tape 5M	Very Good Quality	Length: 5 m	3
88	Spirit Level	Very Good Quality	Vials: 3 Accuracy: 0.5mm/m Length: 300 mm Product Type: Level	3



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89	Goggle	Very Good Quality	Goggle – Industrial Standard Make	5
90	Apron	Very Good Quality	Apron - Standard Make	5
91	Ear Muff	Very Good Quality	Earmuff – Industrial Standard Make	5
92	Mask	Very Good Quality	Mask – Industrial Standard Make	50
93	Fire Extinguisher	Very Good Quality	Fire Extinguisher– Industrial Standard Make	6
94	First Aid Kit	Very Good Quality	First Aid Kit – Industrial Standard Make	2
95	Gloves Pair	Very Good Quality	Gloves – Industrial Standard Make	10
96	Normal Oven	Branded Company Product with at least three years product warranty	Oven Cap: 20L or more Type: Solo Door: Side Swing Child Lock: Yes Completion Beeper: Yes Power Levels: Up to 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm): 455 × 252 × 320 PowerOut: 700W or less	1
97	Refrigerator	Branded Company Product with at least three years product warranty	Capacity:183L or more Annual Energy Consumption: 148kWh/Year or less Refrigerator Fresh Food Capacity: 165L or more Freezer Capacity: min 18L Bottle Count: 5 or more Noise Level:40dB or less Installation Type: Free-standing	1
98	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4K UHD or higher Brightness: Min 350 nits; Typ 400 nits Approx Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms Viewing Angle: Approx 178 Degrees Wide Working Frequency:1.5GHz Nominal RAM: 4 GB or More Internal Storage: 32 GB Min OS: Android-based HDMI: 3Ports USB: 2 Ports Sensing Type: Infrared Touch Frame	1



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			Surface Protection: 4mm Toughened Glass or Equivalent Infrared Touch Points: 20Approx Voltage: DC +5V \pm 5% Range OPS: Optional	
99	Projector	Branded Company Product with at least three years product warranty	Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1 Port (Firmware Update/Copy OSD) Approx Analog Input: D-Sub 15pin:1 Port Digital Input: HDMI:1 Port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal Focal Length:16.70 mm Approx FNumber: 1.44 Nominal Zoom: 1.44 – 1.95 Ratio (Wide to Tele) Throw Ratio Range: 1.00 – 1.35 (Digital Zoom Approx)	1
100	Printer	Branded Company Product with at least three years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm): 409 \times 398.5 \times 267 Approx Weight: 9.7 Kg Nominal Print Speed: Up to 30 ppm(A4Size) Approx Warranty: 1 Year On-Site Print Resolution: 600 \times 600dpi, HQ1200(2400 \times 600dpi) Quality Approx 2 Sided-Duplex Paper Type: Plain, Thin, Recycled, Approx 2 Sided-Duplex Paper Size: A4 Paper Handling: Tray #1 Paper Type: Plain, Thin, Recycled Tray #1 Max Capacity: Up to 250Sheets(80g/m ²) Approx Paper Output: Up to 100 Sheets(80g/m ²) Face Down Tray; One Sheet Face Up Tray Approx Copy-Color /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApproxEnlarge/Reduce:25 % 400% (In1%Steps) Approx CopyResolution:600 \times 600dpi 2Sided-Duplex Copy Paper Type: Plain, Thin, Recycled 2-sided-Duplex CopyPaperSize:A4 Scan ResolutionInterpolated: Up to 19200 \times 19200 dpi Approx-Scan Resolution Glass: Up to 600 \times 2400 dpi Approx Connectivity: Hi-Speed USB 2.0 Display Type: 16 Chars \times 2 Lines Memory Capacity: 32MB Approx	1



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			Power Source: 220 - 240 VAC 50/60Hz Power Consumption-Ready: Approx 60W Power Consumption-Sleep: Approx 6.6W Power Consumption-Off: Approx 0.08W Noise Level: 50dB(A) Approx	
101	Desktop	Branded Company Product with at least three years of product warranty	CPU: INTEL CORE i7-12th Gen or Higher RAM: 8 GB + 512 GB SSD or more Conn: LAN + WIFI + BLUTOOTH + KEYMOUSE Display: 20" DESKTOP MONITOR	5
102	3D printer Filament	Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal Filament Length: 330 m Approx Dim Accuracy: +/-0.1 mm Approx Roundness Accuracy: +/-0.5 mm Approx Spool Inner Dia: 55 mm Nominal Spool Outer Dia: 20 mm Approx Spool Weight: 300 g Nominal Spool Width: 65 mm Approx	10
103	Acrylic Sheet 3mm, 4ft x 4ft	Very Good Quality		20
104	Acrylic Sheet 4mm, 4ft x 4ft	Very Good Quality		20
105	Acrylic Sheet 5mm, 4ft x 4ft	Very Good Quality		20
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2
107	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality		1
108	Foam Sheet 12mm, 4ft x 4ft	Very Good Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1
110	Ply Board 5mm, 2ft x 4ft	Very Good Quality		12
111	Nylon Rod 10mm, 1m	Very Good Quality		5
112	Nuts (3mm,4mm, 5mm,6mm,8 mm, 10mm,	Very Good Quality		1



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	12mm) Pack of 100			
113	Bolts (3mm,4mm, 5mm, 6mm,8mm, 10mm, 12mm) Dia 1" Inch Pack of 100	Very Good Quality		1
114	Screws (3mm, 4mm, 5mm) Pack of 100	Very Good Quality		1
115	Washers (3mm,4mm, 5mm, 6mm, 8mm, 10mm, 12mm) Pack of 100	Very Good Quality		1
116	Studs (6mm,8mm) 1 Meter	Very Good Quality		2
117	Nails (1",2",3",1.5", 5") Pack of 100	Very Good Quality		1
118	Fevicol 2Kg	Very Good Quality		1
119	2 Way Tape	Very Good Quality		10
120	PVC Pipe .75", 10ft	Very Good Quality		10
121	PVC Pipe 1",10ft	Very Good Quality		10
122	PVC Pipe 1.5", 10ft	Very Good Quality		10
123	PVC Pipe 2.0", 10ft	Very Good Quality		10
124	Aluminum channels	Very Good Quality		2



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	(L, C, Box, strip length 12 ft)			
125	PCB Drill Bit 0.4mm	Very Good Quality		10
126	PCB Drill Bit 0.8mm	Very Good Quality		10
127	PCB Drill Bit 1mm	Very Good Quality		10
128	Drill Bit 4mm	Very Good Quality		10
129	Drill Bit 5mm	Very Good Quality		10
130	Drill Bit 6mm	Very Good Quality		10
131	Arduino UNO R3	Very Good Quality		5
132	Arduino NANO	Very Good Quality		5
133	ESP Wi-Fi Camera	Very Good Quality		5
134	Raspberry Pi Model 4B, 4GB	Very Good Quality		3
135	ESP8266 Node MCU	Very Good Quality		2
136	ESP32 Development Board	Very Good Quality		2
137	Beagle bone blue	Very Good Quality		1
138	Beaglebone Black	Very Good Quality		1
139	Voltage Regulator Module	Very Good Quality	3V, 5V and 12V	5
140	Mini Micro submersible Water Pump	Very Good Quality		2
141	Piezoelectric Plate	Very Good Quality		2



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S. No	Equipment	Preferred brands if any	Specifications	Qty
142	8*8 LED Matrix Module	Very Good Quality		2
143	Bluetooth	Very Good Quality		2
144	7-Segment LED Display	Very Good Quality		2
145	GSM/GPRS/GPS Module	Very Good Quality		2
146	Laser Module	Very Good Quality		2
147	LDR Module	Very Good Quality		2
148	4x4 Matrix Keypad	Very Good Quality		2
149	Joy Stick Module	Very Good Quality		2
150	Active Buzzer (BIG)	Very Good Quality		2
151	Active Buzzer (SMALL)	Very Good Quality		2
152	Motor Driver	Very Good Quality		2
153	Sound Playback Module	Very Good Quality		2
154	BO Motors	Very Good Quality		10
155	Vibrating Motor	Very Good Quality		10
156	Capacitive Touch Switch	Very Good Quality		2
157	IR Sensors (Obstacle Sensors)	Very Good Quality		2
158	Triple Axis Magnetometer	Very Good Quality		2
159	Humidity Sensor	Very Good Quality		2
160	MQ-2	Very Good Quality		2
161	MQ-3	Very Good Quality		2



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S. No	Equipment	Preferred brands if any	Specifications	Qty
162	MQ-4	Very Good Quality		2
163	MQ-5	Very Good Quality		2
164	MQ-7	Very Good Quality		2
165	Ultrasonic Sensor Module	Very Good Quality		2
166	Triple Axis accelerometer	Very Good Quality		2
167	PIR Motion Detector Module	Very Good Quality		2
168	Pulse Rate Heart Sensor	Very Good Quality		2
169	Relay Module	Very Good Quality	5V, 9V and 12V	5
170	Soil Moisture Sensor	Very Good Quality		2
171	Touch Sensor	Very Good Quality		2
172	Rain Drop Sensor	Very Good Quality		2
173	Flex Sensor	Very Good Quality		2
174	Temperature Sensor	Very Good Quality		2
175	Force Pressure Sensor	Very Good Quality		2
176	Color Recognition Sensor	Very Good Quality		2
177	Water Flow Sensor	Very Good Quality		2
178	Sound Sensor	Very Good Quality		2
179	IR Sensor Array for Line Following	Very Good Quality		2
180	RFID Reader-Tags	Very Good Quality		2



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S. No	Equipment	Preferred brands if any	Specifications	Qty
181	RF Modules Tx & Rx 315 MHz ASK	Very Good Quality		2
182	Stepper motor with Driver Board	Very Good Quality		2
183	Servo Motor 360 rotation	Very Good Quality		10
184	Servo Motor 180 rotation	Very Good Quality		10
185	Metal Gear Servo Motor (180°Rotation)	Very Good Quality		10
186	Solder Wire 100gm	Very Good Quality		10
187	Solder Flux	Very Good Quality		10
188	830 Points Solderless Breadboard	Very Good Quality		5
189	400 Points Solderless Breadboard	Very Good Quality		5
190	Copper Clad Board single side	Very Good Quality		10
191	Copper-clad board double-sided	Very Good Quality		10
192	Male to Male Breadboard Jumper	Very Good Quality		100
193	Female to Female Breadboard Jumper	Very Good Quality		100
194	Male to Female Breadboard Jumper	Very Good Quality		100
195	Push Button Switch	Very Good Quality		20



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Terms and Conditions

The following Terms and Conditions apply to all bidders participating in the tender for the supply, installation, and commissioning of equipment, tools, and machines for the establishment of an AICTE IDEA Lab. All prospective vendors are required to read and comply with these terms in their entirety.

1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location **SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY, PUTTUR** 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.



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- 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



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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, and 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.



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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 6th, 2025 before 5.00pm** to the email: principal.f6@jntua.ac.in and idealab.sietk.f6@gmail.com. Also send in a hard copy to:

**Principal,
Siddharth Institute of Engineering & Technology, (Autonomous),
Siddharth Naragr,
Narayanavanam Road,
Puttur-517 583,
Tirupati District,
Andhra Pradesh.**

Contact:

1. Dr. P. Ratna Kamala,
Coordinator- AICTE IDEA lab,
Mobile: 9396937888
Email: hodece.f6@siddharthgroup.ac.in

2. Dr. S. Sunil Kumar Reddy,
C0-coordinator -AICTE IDEA lab,
Mobile 9396932777
Email: sietkmech.f6@gmail.com