

JEPPIAAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)
"Self-Belief | Self-Discipline | Self-Respect"
Kunnam, Sunguvarchatram, Sriperumbudur – 631 604.





Tender Ref. No: JIT/AICTE/IDEA LAB/2025-26/01 Date: 12.08.2025

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.

S.No	Equipment	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D printer	Branded Company Product with at least three years product warranty	Printing Technology: Fused Deposition Modelling (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 PEI surface. Filament Diameter: 1.75mm (supports PLA, PETG, ASA, ABS, etc.). Extruder: Gearbox with 1/10 ratio, Speed: 550 MM/Sec or above Stepper Drivers for smooth motion or equivalent Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors. LCD Screen: 3.5" graphic 65k color screen or larger. Connectivity: USB drive, LAN, or internet. Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments, and more.	1

			Wi-Fi Module: Built-in (network connectivity not required for setup or operation). Compatibility: Windows, macOS, Linux. Printer Dimensions: The maximum physical dimensions of the system 700 X 700 X 700 or above. Fully enclosed Machine.	
2	PCB Milling Machine	Branded Company Product with at least three years product warranty	Cuttable 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 (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	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 Wavelength: Upto 10.6 Micrometre 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
4	Vinyl Printer	Branded	Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs or less	1

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		Company Product with at		
		least Two years		
		Warranty	Cut speed: up to 14.1 ips	
		7	Technology: Stereo camera structured light with	
			focusable cameras or equivalent	
			th at cears y Technology: Stereo camera structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more working Effective Working Distance: 160mm-1400mm Scan Speed: 980,000points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan: Yes Interface: USB2.0 or above Outdoor Scanning: Yes Output Formats: OBJ; STL; PLY; P3; 3MF Scanning Environment: Indoor and outdoor (shaded) Texture / Color Scanning: Yes Minimum Capturable Feature Size: 0.2 mm or less Scanner Dimensions: upto 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web browser Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece 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 luct Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better	
			1 -	
			_	
		Branded		
		Company		
5	3D Scanner	Product with at	Safety: Eye-safe	1
	3B Seamer	least three	Texture Scan: Yes	1
		years product	Interface: USB2.0 or above	
		warranty		
			Cutput I offices : OBS, STE, I E1, I S, SWI	
			Scanning Environment: Indoor and outdoor	
			Technology: Stereo camera structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more working Effective Working Distance: 160mm-1400mm Scan Speed: 980,000points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan: Yes Interface: USB2.0 or above Outdoor Scanning: Yes Output Formats: OBJ; STL; PLY; P3; 3MF Scanning Environment: Indoor and outdoor (shaded) Texture / Color Scanning: Yes Minimum Capturable Feature Size: 0.2 mm or less Scanner Weight: 500 grams or less Scanner Dimensions: upto 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web browser Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece 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 duct ty Spindle Receiver: MK3 or compatible	
			*	
			Technology: Stereo camera structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more working Effective Working Distance: 160mm-1400mm Scan Speed: 980,000points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers at Safety: Eye-safe Texture Scan: Yes Interface: USB2.0 or above Outdoor Scanning: Yes Output Formats: OBJ; STL; PLY; P3; 3MF Scanning Environment: Indoor and outdoor (shaded) Texture / Color Scanning: Yes Minimum Capturable Feature Size: 0.2 mm or less Scanner Weight: 500 grams or less Scanner Dimensions: upto 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web browser Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece 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 t 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,	
			<u> </u>	
		Branded		
		Company		
6	Lathe Machine	Product with at		1
	cum milling	least three	bearings	
		years product	Spindle Receiver: MK3 or competible	
		warranty	-	
			1 ± ±	
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			Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with	
			Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8	
			Motor Rating: 550W or better, induction motor, single phase 230V	
			Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more	
			Additional Accessories:	
			Splash guard and chip collecting tray: 1 No.	
			Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos	
			Tungsten disposable tips ten-piece set: 1 No.	
			Sample workpieces (Nylon Rod, Aluminium	
			Rod)	
			Desktop: 1 No.	
			Working Area: Min 1300 x 2500 mm	
		Branded	Z Axis Working Area: 200 or above	
			Resolution: ±0.03/300mm or more	
			CNC Spindle: 3KW or more	
			Lathe Structure: Welding Steel Structure or equivalent	
		Company Product with at	XYZ Structure: Rack Pinion, Ball Screw Linear	
7	CNC Router	least three	Rails	1
		years product	Max Spindle Speed: Min 18000RPM	
		warranty	Table: T-Slot/Vacuum Bed/Waterbed	
			Repeatability: ±0.03	
			Working Mode: Stepper Motor/Servo Motor	
			Dust Collector: To be included by Vendor Voltage: AC 220V/415V, 50/60 Hz, 3 Phase	
			Motor: 230V 50Hz	
		Branded	Power: 380W S2 30min	
	D 1/ 1 D'	Company	No-load Speed: 1450rpm or more	
8	Belt and Disc Sanding	Product with at	Belt Size: 100x914mm or less	1
8	Machine	least three	Disc Size: 150mm or better	1
		years product	Table Tilting Range: 0°-45°	
		warranty	Belt Tilting Range: 0°-90°	
			Table Size: up to 190x125mm Power input: 50 Watt	
		Branded	Thickness of Cut: 50 mm (2 inch)	
9	Scroll Saw	Company	Throat: 406 mm (16 inch)	1
		Product with at	Length of Stroke: 18 mm (11/16 inch)	
		least three	Strokes Per Minute: 400-1,600 SPM	

		years product warranty	Overall Length: 600 mm (23-5/8 inch)	
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 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, 1300, 1900, 2670 (50 Hz), 690, 1070, 1560, 2280, 3200 (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 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: 15–200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: upto 320×120×195 mm Weight (Approx.): 4.3 kg or less	1
13	Computerized Sewing Machine	Branded Company Product with at least three years product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic 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	1

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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: upto 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: upto 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: ±0.5% or ±3 digits, whichever is higher AC Voltage Accuracy: Within ±1% + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: ±1.5% + 3 digits (approximate) AC Current Accuracy: ±1.5% + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits 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
17	MSO 100 MHz	Branded Company Product with at	Bandwidth: Up to 100 MHz Analog Channels: 4 or more	1

		I	n n n n n n n n n n	
		least three years	Real-Time Sampling Rate: Maximum 1 GSa/s	
		product	per channel	
		warranty	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,	
			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 Compactivity USB 2.0 (host and dayios)	
			Connectivity: USB 2.0 (host and device),	
			Ethernet (RJ45), and Go-NoGo BNC	
			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	
		Duon de d	with Pollution Degree 2 classification	
		Branded	Number of Channels: Up to 2 independent	
	Digital	Company	analog inputs Memory Record Length: Up to 10 Mpts for	
18	Digital	Product with at	extended waveform capture	1
	oscilloscope	least three years	Bandwidth Limiting: Selectable 20 MHz	
		product	bandwidth filter	
		warranty	vanuwidii iiter	

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			Sampling Rate: Maximum of 1 GSa/s real-time	
			equivalent per channel	
			Rise Time: ≤ 3.5 ns depending on probe and	
			settings	
			Display: 7" TFT color LCD with 800×480	
			resolution	
			Time Base Range: From 5 ns/div to 100 s/div,	
			user-adjustable Vertical Resolution: 8-bit digital resolution	
			Trigger Modes: Automatic, Normal, and	
			Signal-dependent triggering	
			Maximum Input Voltage: 300 Vrms (within	
			safety limits)	
			Input Sensitivity: Within the range of 1mV/div to 10 V/div	
			Input Coupling Options: Selectable among AC,	
			DC, and Ground	
			Trigger Coupling Modes: Configurable as AC,	
			DC, High-pass, or Low-pass	
			Physical Dimensions: Approximately 350 ×	
			$200 \times 120 \text{ mm}$ or above	
			Unit Weight: 2.5 kg or above	
			Input Impedance: Nominal 1 M Ω // 16 pF	
			Measurement Capabilities: Equipped for	
			automatic parameter extraction, background noise filtering, and AUTOSET configuration for	
			display scaling (time base/gain) Protocol	
			Decoding Support: Capable of analyzing I2C,	
			SPI, UART, CAN, and LIN communication	
			protocols	
			Standard Accessories: Includes mains power	
			cable, user manual (digital format), and one	
			GTL-16E probe per input channel	
			Output Configuration: 4-channel design with	
			independent electrical isolation across all	
			outputs	
			Channel Output Ranges:	
		.	CH1 & CH2: Adjustable output voltage from 0	
		Branded	to 32V with a current delivery capacity up to 3A	
		Company	CH3: Variable range 0 to 5V supporting up to	
19	Power supply	Product with at	1A	1
	1 0 or bapping	least three years	CH4: Output adjustable from 0 to 15V with a	•
		product	load current of up to 1A	
		warranty	Constant William O. C. M. 1	
			Constant Voltage Operating Mode	
			Line Regulation: $\leq 0.01\% + 3 \text{ mV}$	
			(approximate value within rated voltage range)	
			Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across rated	
			load variation)	

			Ripple & Noise: ≤ 1 mVrms across full bandwidth	
			Constant Current Operating Mode Line Regulation: ≤ 0.2% + 3 mA Load Regulation: ≤ 0.2% + 3 mA Ripple Current: ≤ 3 mArms (typical)	
			Safety & Operational Features Output Control: Independent output ON/OFF switching functionality is required Voltage Resolution: Approximately 100 mV (*1) Current Resolution: Approximately 10 mA (*1)	
			Display Parameters Display Units: Four separate displays required for individual channel status visualization Display Type: 4.3-inch LCD (color or monochrome as applicable)	
			Functional Features Tracking Operation: Supported (required for synchronizing output behavior) Auto Series/Parallel: Supported (automatic internal reconfiguration required)	
			Power Requirements Supply Input: 230V AC ±10%, 50 Hz	
			Mechanical Specifications Maximum Dimensions (W × H × D): Within 200 mm × 100 mm × 200 mm Maximum Weight: 10 kg or less	
20	Function Generator	Branded Company Product with at least three years product warranty	Output Function: The equipment shall provide output waveforms including sine, square, triangle, and TTL signals as required. 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. Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz. Frequency Stability: The frequency stability	1
			shall be within ±20 ppm (parts per million). Frequency Accuracy: The frequency accuracy	

			shall be maintained within ± 20 ppm. Frequency Aging: Frequency aging shall not exceed ± 5 ppm per annum. Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load. Amplitude Accuracy: Amplitude accuracy shall be within $\pm 20\%$ at maximum amplitude setting. Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of $\pm 10\%$. Attenuator: A single-step attenuator of -40 dB ± 1 dB shall be provided. Display: A 6-digit LED display shall be incorporated for parameter indication. Output Control: Output shall be controlled via an ON/OFF selector switch. 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. Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0 °C to 40 °C. Dimensions: Maximum dimensions shall not exceed 255 mm (W) $\times 95$ mm (H) $\times 295$ mm (D). Weight: Maximum device weight shall be	
21	Bench Top Multimeter	Branded Company Product with at least three years product warranty	within 2.5 kg. AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: ±(0.5%– 5% rdg + digits) depending on frequency and range. Input impedance: 10 MΩ. DC Current: Range: 500 μA to 20 A across 6 ranges. Accuracy: ±(0.02%–0.3% rdg + 2 digits) depending on range. AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges. Accuracy: ±(0.5%–1% rdg + digits) depending on frequency. Resistance: Range: 500 Ω to 20 MΩ across 6 ranges. Accuracy: ±(0.1%–0.3% rdg + digits) depending on ranges. Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μF. Accuracy: ±(2% rdg + 4 digits).	1

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			Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold $<$ 5 Ω . 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.	
22	Non-Contact Voltage Tester	Branded Company Product with at least three years product warranty	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
23	LCR Meter	Branded Company Product with at least three years product warranty	Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both primary and secondary displays. Basic Accuracy: Within ±0.2% under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Up to 15 different measurement combinations available. Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ±1 V. Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).	1

			Auto LCR Mode: Automatic identification and measurement of component types within supported ranges. Data Hold: Feature available to hold measured data on display. Interface: USB virtual COM port provided for remote communication capabilities. Software: Datalogging software available for data capture and analysis.	
24	Soldering Station	Branded Company Product with at least three years product warranty	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 ±10%, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards. Dimensions: Compact design with 100 mm × 100 mm × 90 mm (W × H × D) or above Weight: Approximately 1.5 kg for ease of portability and bench use.	3
25	Digital Microscope	Branded Company Product with at least three years product warranty	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/windows/Mac system	1
26	Soldering Rework Station	Branded Company Product with at least three years product warranty	Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ±2 °C. Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included.	1

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			Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits. DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current plus 5 V USB output for auxiliary power. Control: Microcontroller-based system with LED indicators for temperature and mode selection. Safety: ESD-safe design compliant with applicable standards. Build: Metallic body with powder coating, approximate dimensions 280 mm × 180 mm × 140 mm (W × H × D). Weight: Approximately 3.5 kg. Power Source: AC 220 V ±10%, 50/60 Hz. 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. 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	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.	2
28	Cordless drill	Branded Company Product with at least three years product warranty	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

29	Jig Saw	Branded Company Product with at least three years product warranty	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
30	Miter Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,750 W maximum power consumption. Saw Blade Diameter: Approximately 254 mm nominal diameter. Mitre Setting: Adjustable up to approximately 47° left and 52° right. 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° Mitre: Approximately 90 mm × 91 mm maximum cross-section. Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-section. 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.	1
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.	2
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	1

		T	C-44: - 1 -: -1.4 450: 55	
			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	
		Branded	Grinding wheel diameter: min 150 mm	
			Rated input power: 350 W or more	
		Company Product with at	Grinding wheel widths: 20 mm or more	
33	Bench grinder		No-load speed: upto 3,000 rpm	1
		least three years	Grinding wheel bore: 20 mm/2cm	
		product	Grit 24, 60 or more	
		warranty	Weight: 10 kg or less	
			Rated Input Power: Approximately 670 W	
		Branded	maximum power consumption.	
		Company	No-Load Speed: Approximately 11,000 rpm.	
34	Anala Crindar	Product with at	Disc Diameter: Approximately 100 mm nominal	1
34	Angle Grinder	least three years	diameter.	1
		product	Grinding Spindle Thread: Standard M10 thread.	
		warranty	Weight: Approximately 1.5 kg.	
			Switch: Lockable switch for operational safety.	
			Rated Input Power: Max 300 W power	
			consumption.	
		Branded	No-Load Speed: Up to 28,000 rpm.	
		Company	Voltage, Electrical: Nominal 230 V AC supply.	
		Product with at	Spindle Collar Diameter: Approximately 41	
35	Straight Grinder	least three years	mm.	1
		product	Weight: Around 1.4 kg.	
		warranty	Maximum Grinding Tool Diameter: Up to 25	
			mm.	
			Maximum Collet Diameter: Up to 8 mm.	
			Switch: Lockable switch for enhanced safety.	
			Rated Input Power: Approximately 1,400 W	
		D 1 1	maximum consumption.	
		Branded	Saw Blade Diameter: Nominal 184 mm	
		Company	diameter.	
36	Circular Saw	Product with at	Saw Blade Bore Diameter: About 20 mm standard bore size.	1
		least three years	Guide Rail Compatibility: Not compatible with	
		product	guide rails.	
		warranty	No-Load Speed: Typically, 5200 rpm.	
			Weight: Around 4.1 kg	
			Rated Input Power: Max 650 W power	
		Branded	consumption.	
37	Blower	Company	Weight: Approximately 1.7 kg.	1
37	DIOMEI	Product with at	Voltage, Electrical: Nominal 230 V AC supply.	1
		least three years	Sound Pressure Level: Around 103 dB(A).	
		_	Sound Flessure Level: Around 103 aB(A).	

		product	Sound Power Level: Approximately 95 dB(A).	
		warranty	Uncertainty (K): Within ±3 dB	
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 1500 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. Container Volume (Gross): Approximately 15 liters total volume. Container Volume (Net, Water): About 8 liters capacity for water. Filter Surface Area: Around 2,300 cm² 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
40	Random orbit sander	Branded Company Product with at least three years product warranty	Rated Input Power: Up to 280 W maximum consumption. Sanding Pad Diameter: Nominal 125 mm diameter. Orbit Diameter: Approximately 2.6 mm orbital diameter. Weight: Around 1.4 kg. No-Load Speed: Adjustable within 7,500 to 12,000 rpm range. Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm). Eccentricity: Approximately 1.3 mm.	1
41	Planer	Branded Company Product with at least three years product warranty	Rated Input Power: Not exceeding 710 W under nominal operating conditions. Planing Width: Approximately 82 mm effective width capacity. Planing Depth: Within the range of up to 2.6 mm maximum depth per pass.	1

			Weight: Circa 2.8 kg total unit mass. Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm. No-Load Speed: Operating speed typically	
42	Cordless Vacuum Cleaner with Starter kit	Branded Company Product with at least three years product warranty	around 18,000 rpm. Battery Voltage: Rated at approximately 18.0 V nominal voltage. Weight Excluding Battery: Around 1.3 kg without battery attached. Container Volume: Approximately 0.7 liters net capacity. Filter Surface Area: Roughly 55 cm² filtration surface. Maximum Airflow Rate (Turbine): Up to 10 liters per second. Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions. Operating Time (18 V Battery): Typically, 7	1
43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	minutes per Ah of battery capacity. 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/s² measured vibration	2
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.	2

			Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W × H) overall size	
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: Approx1.74Kg 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	Ball Key Size: 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
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: Upto 150 mm	2
61	Pipe wrench	Very Good Quality	Size: Max 300 mm	2
62	C – clamp	Very Good Quality	Size: Upto 75 mm	4
63	C-clamp	Very Good Quality	Size: Upto 150 mm	4
64	Snap- off Knife	Very Good Quality	Size:18 mmm	2

65	16pcs	Very Good	Pieces Per Set: 16 pcs	1
66	screwdriver set 6pcs precision	Quality Very Good	Pieces Per Set: 16 pcs	2
- 00	screwdriver set	Quality	rieces rei set. 10 pcs	2
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
74	Bench wise	Very Good Quality	Base Type: Fixed Size: 2–3½" nominal Jaw Width: 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 Sz:2" nominal; Jaw: 50mm	2
79	Pegboard	Very Good Quality	-	5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Calliper Measurement Range:0–150mm / 0–6" Resolution: 0.01mm	2
81	Micrometer	Very Good Quality	Resolution: 0.001mm/0.00005" Measurement 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 Scale Size:24"/600mm Material: Stainless Steel	5
84	Engineering Square	Very Good Quality	Size:150×80mm nominal	2

			Material: Carbon Steel	
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: 300mm Product Type: Level	3
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: upto 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm): 455×252×320 Power Out: 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: Freestanding	1
98	Smart Board	Branded Company Product with at least three years	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4KUHDor Higher Brightness: Min 350 nits; Typ400nits Approx Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms	1

Г		1 /	Y'' A 1.70 D Y'' 1	1
		product	Viewing Angle: Approx178 Degrees Wide	
		warranty	WorkingFrequency:1.5GHz Nominal	
			RAM: 4GB or More	
			Internal Storage: 32GB Min	
			OS: Android Based	
			HDMI: 3 Ports	
			USB: 2 Ports	
			Sensing Type: Infrared Touch Frame	
			Surface Protection: 4mm Toughened Glass or	
			Equivalent	
			Infrared Touch Points: 20Approx	
			Voltage: DC +5V±5%Range	
			OPS: Optional	
			Projection Tech: RGB liquid crystal shutter	
			projection (3LCD) Up to	
			Connectivity: USB Type B: 1port	
			(Firmware Update/Copy OSD) Approx	
		Branded	Analog Input: D-Sub15pin:1port	
		Company		
00	Decises	Product with at	Digital Input: HDMI:1port Projection Lengt Type: No Onticel Zeem/Feeus	1
99	Projector	least three years	Projection Lens: Type: No Optical Zoom/Focus	1
		product	(Manual) Nominal	
		warranty	FocalLength: 16.70mm Approx	
			F Number: 1.44 Nominal	
			Zoom: 1.44-1.95 Ratio (Wide to Tele)	
			Throw Ratio Range: 1.00–1.35 (Digital Zoom)	
			Approx	
			Functions: Print, Scan, Copy	
			Printer Type: Laser Nominal	
			Dims(mm): 409×398.5×267Approx	
			Weight: 9.7Kg Nominal	
			Print Speed: Upto 30ppm (A4Size) Approx	
			Warranty: 1Year On-Site	
			Print Resolution: 600×600 dpi, HQ1200 (2400 ×	
		Branded	600dpi) Quality Approx	
			2 Sided-Duplex	
		Company	PaperType: Plain, Thin, Recycled Approx	
100	Printer	Product with at	2Sided-Duplex-Paper Size: A4	1
		least three years	Paper Handling: Tray#1-	
		product	Paper Type: Plain, Thin, Recycled	
		warranty	Tray#1-	
			Max Capacity: Upto250Sheets (80g/m²) Approx	
			Paper Output: upto100 Sheets (80g/m²) Face Do	
			wnTray; One Sheet Face Up Tray Approx Copy-	
			Colour /Mono: Yes/Yes Multiple Copies:	
			Sorts/Stacks Upto 99 Pages Approx	
			Enlarge/Reduce: 25% 400% (In 1% Steps)	
			Approx	
		1	Tippion	l

			Copy Resolution: 600×600dpi 2 Sided-Duplex-Copy Paper Type: Plain, Thin, Recycled 2 Sided-Duplex-Copy Paper Size: A4 Scan- Resolution Interpolated: Upto 19200×19200dpi Approx Scan-Resolution Glass: Upto 600×2400dpi Approx Connectivity: Hi-Speed USB2.0 Display Type: 16Chars×2Lines Memory Capacity: 32MB Approx Power Source: 220-240V AC50/60Hz 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 product warranty	CPU: INTEL CORE I7-12THGEN or Higher RAM: 8GB+512GB 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: 330m Approx Dim Accuracy: +/-0.1mm Approx Roundness Accuracy: +/-0.5mmApprox SpoolInnerDia:55mmNominal SpoolOuterDia:200mmApprox SpoolWeight:300gNominal SpoolWidth:65mmApprox	10
103	Acrylic Sheet	Very Good		20
104	3mm, 4ft x 4ft Acrylic Sheet	Quality Very Good		20
104	4mm, 4ft x 4ft	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	Very Good		1
	12mm, 4ft x 4ft Foam Sheet	Quality Very Good		1
109	15mm, 4ft x 4ft	Quality		1
110	Ply Board 5mm, 2ft x 4ft	Very Good Quality		12

111	Nylon Rod	Very Good	5
112	10mm, 1m Nuts (3mm, 4mm, 5mm, 6mm, 8mm,10mm, 12mm) Pack of	Quality Very Good Quality	1
113	100 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 0.75", 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",	Very Good Quality	10
124	Aluminium channels (L, C,	Very Good Quality	2

	Box, strip length 12ft)		
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	Arduino Mega	Very Good Quality	3
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	Beaglebone blu	Very Good Quality	1
138	Beaglebone Black	Very Good Quality	1
139	Voltage Regulator Module	Very Good Quality	2
140	Mini Micro submersible Water Pump	Very Good Quality	2
141	Piezoelectric Plate	Very Good Quality	2
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/GP S Module	Very Good Quality	2

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146	Laser Module	Very Good Quality	2
147	LDR Module	Very Good	2
117		Quality	
148	4×4 Matrix	Very Good	2
	Keypad	Quality	
149	Joy Stick	Very Good	2
117	Module	Quality	
150	Active Buzzer	Very Good	2
130	(BIG)	Quality	2
151	Active Buzzer	Very Good	2
151	(SMALL)	Quality	2
152	Motor Driver	Very Good	
		Quality	2
1.52	Sound Playback	Very Good	2
153	Module	Quality	2
1.7.4	DOM.	Very Good	1.0
154	BO Motors	Quality	10
1.5.5		Very Good	1.0
155	Vibrating Motor	Quality	10
1.5	Capacitive	Very Good	
156	Touch Switch	Quality	2
	IR Sensors	•	
157	(Obstacle	Very Good	2
137	Sensors)	Quality	2
	Triple Axis	Vom: Cood	
158	_	Very Good	2
	Magnetometer	Quality	
159	Humidity	Very Good	2
	Sensor	Quality	
160	MQ-2	Very Good	2
		Quality	
161	MQ-3	Very Good	2
161		Quality	
162	MQ-4	Very Good	2
		Quality	
163	MQ-5	Very Good	2
		Quality	
164	MQ-7	Very Good	2
	Ultrasonic	Quality	
165		Very Good	2
	Sensor Module	Quality	
166	Triple Axis	Very Good	2
	accelerometer	Quality	
	PIR Motion	Very Good	_
167	Detector	Quality	2
	Module		

168	Pulse Rate Heart Sensor	Very Good Quality	2
169	Relay Module	Very Good Quality	2
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	Colour 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
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 100grm	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 side	Very Good Quality	10
192	Male to Male Breadboard Jumper	Very Good Quality	10
193	Female to Female Breadboard Jumper	Very Good Quality	10
194	Male to Female Breadboard Jumper	Very Good Quality	10

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 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 catalogues 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 [25.08.2025 before 05.00 pm] to the email ID:

jitidealab@jeppiaarinstitute.org or sent in hard copy to:

THE CHIEF MENTOR,

JEPPIAAR INSTITUTE OF TECHNOLOGY, (Autonomous)

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