

School of Engineering

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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.	Equipment	Preferred	Specifications	Qty
No.	-darbinant	brands if any	Special services	~5
1	Single Nozzle 3D printer	Branded Company Product with at least four years product warranty	Printing Technology: Fused Filament Fabrication (FFF) or Fused Deposition Modeling (FDM). Printable Area: The minimum printable area should be at least 310 x 310 x 310 mm or above Printer Design: Core XY or Cartesian. Temperature Range: Hot end: Up to 300°C or above Heat bed: Up to 120°C. or above. Nozzle: Compatible with All polymers, 0.4, 0.6 and 0.8mm Steel Sheet: Provided with satin or smooth 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. 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.	1
2	PCB Milling Machine	Branded Company Product with at least four 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	1



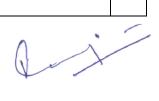
			Spindle Motor: DC Motor Type 380 or More Spindle Speed: Adjustable 20,000 and above rpm or more Tool Chuck Type: Collet Interface: USB or cable Control Commands: RML-1, NC code Power Supply: DC 24V, 2.5A (via AC 100– 240V, 50/60Hz adapter) Power Consumption: Approx. 50 W or more	
3	CO2 Laser Cutting Machine	Branded Company Product with at least four 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: Upto 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000 mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415 V Accessories: CO2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 Nos	1
4	Vinyl Printer	Branded Company Product with at least four years 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 four years product warranty	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 Distance: 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	1

			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	
6	Lathe Machine cum milling	Branded Company Product with at least four years product warranty	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, highquality 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 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.	1
7	CNC Router	Branded Company Product with at least four years product warranty	Working Area: Min 1300 x 2500 mm Z Axis Working Area: 200 or above Resolution: ±0.03/300mm or more CNC Spindle: 3KW or more Lathe Structure: Welding Steel Structure or equivalent XYZ Structure: Rack Pinion, Ball Screw Linear Rails Max Spindle Speed: Min 18000RPM Table: T-Slot/Vacuum Bed/Water Bed 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	1

8	Belt and Disc Sanding Machine	Branded Company Product with at least four years product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Titing Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm	1
9	Scroll Saw	Branded Company Product with at least four 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 four 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 four 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, 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 four 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 four 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	1



14	Filament Dehydrator	Branded Company Product with at least four years product warranty	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 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 four 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 four 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 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



1.77	MGO 100 M	D 1.1	D 1 111 H 4 100 M	1
17	MSO 100 MHz	Branded	Bandwidth: Up to 100 MHz	1
		Company Product with at	Analog Channels: 4 or more	
			Real-Time Sampling Rate: Maximum 1 GSa/s per channel	
		least four years		
		product	Memory Depth: 10 Mpts per channel	
		warranty	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	
			1	
			Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate, Timeout,	
			Event-Delay, Time-Delay, and Bus Arbitrary	
			Waveform Generator (AWG): Dualchannel, 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-NoGo BNC	
			Dimensions (W \times H \times D): 380 \times 200 \times 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	
18	Digital oscilloscope	Branded	Number of Channels: Up to 2 independent analog	1
	_	Company	inputs	
		Product with at	Memory Record Length: Up to 10 Mpts for extended	
		least four	waveform capture	
		years product	Bandwidth Limiting: Selectable 20 MHz	
		warranty	bandwidth filter	
			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	



19	Power supply	Branded Company Product with at least four years product warranty	Time Base Range: From 5 ns/div to 100 s/div, useradjustable 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 1 mV/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 × 120 mm or above Unit Weight: 2.5 kg or above Input Impedance: Nominal 1 MΩ // 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 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 Constant Voltage Operating Mode Line Regulation: ≤ 0.01% + 3 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)	1
			Line Regulation: $\leq 0.2\% + 3 \text{ mA}$ Load Regulation: $\leq 0.2\% + 3 \text{ mA}$	

00 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 four 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 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 $50~\Omega$ 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	1



			dimensions shall not exceed 255 mm (W) × 95 mm (H) × 295 mm (D). Weight: Maximum device weight shall be within 2.5 kg.	
21	Bench Top Multimeter	Branded Company Product with at least four years product warranty	DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: ±(0.03% rdg + 4 digits). Input impedance: 10 MΩ. 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 range. 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). 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 ±10%, 50/60 Hz. Dimensions & Weight: Approximately 251 × 91 × 291 mm; 2.6 kg.	1
22	Non-Contact Voltage Tester	Branded Company Product with at least four 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).	5



			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.	
23	LCR Meter	Branded Company Product with at least four 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). 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.	1
24	Soldering Station	Branded Company Product with at least four 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	Specification: Magnification: 1600X Light source: 8 LED lights	1

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		Product with at	Resolution: 1920×1080, 640*480	
		least four	Pixel: 30W	
		years product	Focal length: 3-40mm manual adjustment Support	
26	Caldania a Dassaula	warranty	Android 4.2 or above/widows/Mac system	1
26	Soldering Rework Station	Branded Company Product with at least four 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. 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	1
27	Hand Drill Machine	Branded Company Product with at least four 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 four	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	2



		T	Τ	1
		years product warranty	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	
29	Jig Saw	Branded Company Product with at least four 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 four 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 four years product warranty	Rated Input Power: Approximately 1.1 kg. 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 four 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 Weight24.4 kg or less	1



		1		
			Max. cutting capacity on the right: 545 mm	
			No-load speed: 4300 rpm	
			Cutting height 90°: 80 mm	
			Cutting height 45°: 55 mm	
33	Bench grinder	Branded	Grinding wheel diameter: min 150 mm	1
		Company	Rated input power: 350 W or more	
		Product with at	Grinding wheel widths: 20 mm or more	
		least four	No-load speed: upto 3,000 rpm	
		years product	Grinding wheel bore: 20 mm/2cm	
		warranty	Grit 24, 60 or more	
			Weight: 10 kg or less	
34	Angle Grinder	Branded	Rated Input Power: Approximately 670 W maximum	1
	8	Company	power consumption.	
		Product with at	No-Load Speed: Approximately 11,000 rpm. Disc	
		least four	Diameter: Approximately 100 mm nominal diameter.	
		years product	Grinding Spindle Thread: Standard M10 thread.	
		warranty	Weight: Approximately 1.5 kg.	
		wairanty	Switch: Lockable switch for operational safety.	
35	Straight Grinder	Branded	Rated Input Power: Max 300 W power consumption.	1
	Suaight Office	Company	No-Load Speed: Up to 28,000 rpm.	1
		Product with at	Voltage, Electrical: Nominal 230 V AC supply.	
		least four	Spindle Collar Diameter: Approximately 41 mm.	
		years 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.	
36	Circular Saw	Branded	Rated Input Power: Approximately 1,400 W	1
30	Circular Saw	Company	maximum consumption.	1
		Product with at	Saw Blade Diameter: Nominal 184 mm diameter.	
		Product with at least four	Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard	
		Product with at least four years product	Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size.	
		Product with at least four	Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide	
		Product with at least four years product	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.	
		Product with at least four years product	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.	
		Product with at least four years product	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.	
27	Dlawer	Product with at least four years product warranty	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	Product with at least four years product warranty Branded	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 Rated Input Power: Max 650 W power consumption.	1
37	Blower	Product with at least four years product warranty Branded Company	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 Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg.	1
37	Blower	Product with at least four years product warranty Branded Company Product with at	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 Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply.	1
37	Blower	Product with at least four years product warranty Branded Company Product with at least four	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 Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A).	1
37	Blower	Product with at least four years product warranty Branded Company Product with at least four years product	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 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).	1
37	Blower	Product with at least four years product warranty Branded Company Product with at least four	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 Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A).	1
		Product with at least four years product warranty Branded Company Product with at least four years product warranty	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 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	
37	Cordless Screw	Product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Branded	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 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
		Product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Branded Company	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 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 Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30	
	Cordless Screw	Branded Company Product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at	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 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 Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st	
	Cordless Screw	Branded Company Product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four	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 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 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	
	Cordless Screw	Branded Company Product with at least four years product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four years product	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 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 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.	
	Cordless Screw	Branded Company Product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four	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 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 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.	
	Cordless Screw	Branded Company Product with at least four years product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four years product	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 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 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	
	Cordless Screw	Branded Company Product with at least four years product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four years product	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 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 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.	
	Cordless Screw	Branded Company Product with at least four years product with at least four years product warranty Branded Company Product with at least four years product warranty Branded Company Product with at least four years product	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 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 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	

39	Vacuum Cleaner	Branded Company Product with at least four 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 four 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 four 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. Weight: Circa 2.8 kg total unit mass. Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm. No-Load Speed: Operating speed typically around 18,000 rpm.	1
42	Cordless Vacuum Cleaner with Starter kit	Branded Company Product with at least four years product warranty	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 minutes per Ah of battery capacity.	1

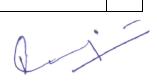


43	Rotary Tool Kit	Branded Company Product with at least four years product warranty	Rated Power Input: Approximately 175 W within nominal voltage range. Voltage: Operates within 220 to 240 V AC supply. Weight: Around 0.66 kg total mass. Length: Approximately 24 cm overall length. Width: About 4.1 cm 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. 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: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
51	Combination Spanner set 8Pcs	Very Good Quality	Weight: Approx649g 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

54	Combination plier	Very Good Quality	Weight: Approx422g nom.wt. Size: 8"/200mm nominal	2
55	Long nose plier	Very Good Quality	Weight: Approx399g nom.wt. Size:180mm/6"	2
56	Circlip straight 5"	Very Good Quality	Weight: Approx399g nom.wt. Size:130mm/5" nominal	2
57	Circlip bent	Very Good Quality	"Weight: Approx399g nom.wt. Size:130mm/5"" nominal"	2
58	Diagonal Cutter	Very Good Quality	"Weight: Approx239g nom.wt. Size:180mm nominal"	2
59	Wire Stripper	Very Good Quality	Weight: Approx281g 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 screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	1
66	6pcs precision screw driver set	Very Good Quality	Pieces Per Set: 16 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 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 JawWidth: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 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 ScaleSize: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:150×80mm 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: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 four 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 PowerOut:700W or less	1
97	Refrigerator	Branded Company Product with at least four	Capacity:183L or more AnnualEnergyConsumption:148kWh/Year or less RefrigeratorFreshFoodCapacity:165L or more Freezer Capacity: min 18L BottleCount:5 or more	1



		years product	NoiseLevel:40dB or less	
		warranty	Installation Type: Freestanding	
98	Smart Board	Branded Company Product with at least four years product warranty	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4KUHDorHigher Brightness: Min 350 nits; Typ400nitsApprox Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms Viewing Angle: Approx178DegreesWide WorkingFrequency:1.5GHzNominal RAM:4GBOrMore InternalStorage:32GBMin OS: Android Based HDMI: 3Ports USB: 2Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20Approx Voltage:DC+5V±5%Range OPS: Optional	1
99	Projector	Branded Company Product with at least four years product warranty	Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1port (FirmwareUpdate/Copy OSD) Approx AnalogInput:D-Sub15pin:1port Digital Input: HDMI:1port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx	1
100	Printer	Branded Company Product with at least four years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm):409×398.5×267Approx Weight:9.7KgNominal PrintSpeed:Upto30ppm(A4Size)Approx Warranty:1YearOn-Site PrintResolution:600×600dpi,HQ1200(2400×600dpi) Quality Approx 2Sided-Duplex- PaperType:Plain,Thin,RecycledApprox 2Sided-Duplex-PaperSize:A4 PaperHandling:Tray#1- PaperType:Plain,Thin,Recycled Tray#1- MaxCapacity:Upto250Sheets(80g/m²)Approx PaperOutput:Upto100Sheets(80g/m²)FaceDo wnTray;OneSheetFaceUpTrayApprox Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%400%(In1%Steps)Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType:Plain,Thin,Recycled	1

	T	1	001110 1 0 0 0	T
			2Sided-Duplex-CopyPaperSize:A4 Scan-	
			ResolutionInterpolated:Upto19200×19200dp	
			iApprox	
			Scan-	
			ResolutionGlass:Upto600×2400dpiApprox	
			Connectivity:Hi-SpeedUSB2.0	
			DisplayType:16Chars×2Lines	
			MemoryCapacity:32MBApprox	
			PowerSource:220-240VAC50/60Hz	
			PowerConsumption-Ready:Approx60W PowerConsumption-Sleep:Approx6.6W	
			PowerConsumption-Off:Approx0.08W	
			NoiseLevel:50dB(A)Approx	
			1.00020.000 002(1.5)1.pp10.1	
101	Desktop	Branded	CPU: INTEL CORE I7-12THGEN or Higher	5
		Company	RAM:8GB+512GB SSD or more	
		Product with at	Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE	
		least four	Display:20" DESKTOP MONITOR	
		years product warranty		
102	3D printer Filament	Very Good	Weight Kg: 1 Approx	10
	_	Quality	Melt Flow Index: 2 (190°C/2.16kg) Nominal	
			FilamentLength:330mApprox	
			Dim Accuracy: +/-0.1mmApprox	
			Roundness Accuracy: +/-0.5mmApprox	
			SpoolInnerDia:55mmNominal	
			SpoolOuterDia:200mmApprox SpoolWeight:300gNominal	
			SpoolWidth:65mmApprox	
			Spool Wildings Hilling Sprox	
103	Acrylic Sheet 3mm,	Very Good		20
101	4ft x 4ft	Quality		20
104	Acrylic Sheet 4mm,	Very Good		20
105	4ft x 4ft Acrylic Sheet 5mm,	Quality Very Good		20
103	4ft x 4ft	Quality		20
106	Foam Sheet 8mm,	Very Good		2
	4ft x 4ft	Quality		-
107	Foam Sheet 10mm,	Very Good		1
	4ft x 4ft	Quality		
108	Foam Sheet 12mm,	Very Good		1
100	4ft x 4ft	Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1
110	Ply Board 5mm,	Very Good		12
110	2ft x 4ft	Quality		12
111	Nylon Rod 10mm,	Very Good		5
	1m	Quality		
112	Nuts	Very Good		1
	(3mm,4mm,5mm,	Quality		
	6mm,8mm,10mm,			
	12mm) Pack of 100			



	T .		Т .
113	Bolts	Very Good	1
	(3mm,4mm,5mm,	Quality	
	6mm,8mm,10mm,		
	12mm) dia 1"		
	Inch Pack of 100		
114	Screws	Very Good	1
	(3mm,4mm,5mm)	Quality	
	Pack of 100		
115	Washers	Very Good	1
	(3mm,4mm,5mm,	Quality	
	6mm,8mm,10mm,		
	12mm) Pack of 100		
116	Studs	Very Good	2
	(6mm,8mm) 1	Quality	
	Meter		
117	Nails	Very Good	1
	(1",2",3",1.5",5")	Quality	
	Pack of 100		
118	Fevicol 2Kg	Very Good	1
		Quality	
119	2 Way Tape	Very Good	10
		Quality	
120	PVC Pipe .75",10ft	Very Good	10
		Quality	
121	PVC Pipe 1",10ft	Very Good	10
		Quality	
122	PVC Pipe 1.5",10ft	Very Good	10
		Quality	
123	PVC Pipe 2.0",10ft	Very Good	10
		Quality	
124	Aluminium	Very Good	2
	channels (L, C,	Quality	
	Box, strip length		
	12ft)		
125	PCB Drill Bit	Very Good	10
	0.4mm	Quality	
126	PCB Drill Bit	Very Good	10
	0.8mm	Quality	
127	PCB Drill Bit 1mm	Very Good	10
		Quality	
128	Drill Bit 4mm	Very Good	10
		Quality	
129	Drill Bit 5mm	Very Good	10
		Quality	
130	Drill Bit 6mm	Very Good	10
		Quality	
131	Arduino UNO R3	Very Good	5
		Quality	
132	Arduino NANO	Very Good	5
		Quality	
133	Arduino Mega	Very Good	3
		Quality	
134	Raspberry Pi Model	Very Good	3
	4B, 4GB	Quality	
L	עד, אטם,	Quality	<u> </u>



			1
135	ESP8266	Very Good	2
	NodeMCU	Quality	
136	ESP32	Very Good	2
	Development Board	Quality	
137	Beaglebone blu	Very Good	1
		Quality	
138	Beaglebone Black	Very Good	1
		Quality	
139	Voltage Regulator	Very Good	2
	Module	Quality	
140	Mini Micro	Very Good	2
	submersible Water	Quality	
	Pump		
141	Piezoelectric Plate	Very Good	2
		Quality	
142	8*8 LED Matrix	Very Good	2
	Module	Quality	
143	Bluetooth	Very Good	2
5		Quality	l -
144	7 Segment LED	Very Good	2
	Display	Quality	
145	GSM/GPRS/GPS	Very Good	2
173	Module	Quality	
146	Laser Module	Very Good	2
170	Laser Wioduic	Quality	
147	LDR Module	Very Good	2
17/	LDK Module	Quality	
148	4×4 Matrix Keypad	Very Good	2
170	TYT IVIALIA INCYPALI	Quality	
149	Joy Stick Module	Very Good	2
177	Joy Buck Module	Quality	
150	Active Buzzer	Very Good	2
150	(BIG)	Quality	
151	Active Buzzer	Very Good	2
101	(SMALL)	Quality	
152	Motor Driver	Very Good	2
132	MIOIOI DIIVEI		
153	Sound Dlaybaals	Quality Very Good	2
133	Sound Playback Module	Quality	
154	BO Motors		10
134	DO MOIORS	Very Good Quality	10
155	Vilentin a Mater	Quality	10
155	Vibrating Motor	Very Good	10
157	Compaiting T 1	Quality	2
156	Capacitive Touch	Very Good	2
157	Switch	Quality	_
157	IR Sensors	Very Good	2
	(Obstacle	Quality	
1.50	Sensors)	Ware Card	_
158	Triple Axis	Very Good	2
1.50	Magnetometer	Quality	
159	Humidity Sensor	Very Good	2
4.5.	2.50	Quality	<u> </u>
160	MQ-2	Very Good	2
		Quality	



Quality 162 MQ-4 Very Good Quality 163 MQ-5 Very Good Quality 164 MQ-7 Very Good Quality 165 Ultrasonic Sensor Very Good Module Quality 166 Triple Axis accelerometer Quality 167 PIR Motion Very Good Quality 168 Pulse Rate Heart Very Good Sensor Quality 168 Pulse Rate Heart Very Good Sensor Quality 169 Very Good Quality 160 Pulse Rate Heart Very Good Quality Very Good Very Good Quality Very Good Very Good	
Quality 163 MQ-5 Very Good Quality 164 MQ-7 Very Good Quality 165 Ultrasonic Sensor Very Good Module Quality 166 Triple Axis Very Good accelerometer Quality 167 PIR Motion Very Good Detector Module Quality 168 Pulse Rate Heart Very Good	
163 MQ-5 Very Good Quality 164 MQ-7 Very Good Quality 165 Ultrasonic Sensor Module Very Good Quality 166 Triple Axis accelerometer Very Good Quality 167 PIR Motion Pir Module Quality Very Good Quality 168 Pulse Rate Heart Very Good	2
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166 Triple Axis accelerometer Very Good Quality 167 PIR Motion Detector Module Very Good Quality 168 Pulse Rate Heart Very Good	2
167 PIR Motion Very Good Detector Module Quality 168 Pulse Rate Heart Very Good	2
Detector Module Quality 168 Pulse Rate Heart Very Good	
168 Pulse Rate Heart Very Good	2
	2
Sensor	2
169 Relay Module Very Good	2
Quality	-
170 Soil Moisture Very Good	2
Sensor Quality	
171 Touch Sensor Very Good	2
Quality	
172 Rain Drop Sensor Very Good Quality	2
173 Flex Sensor Very Good	2
Quality	2
174 Temperature Sensor Very Good	2
Quality	
175 Force Pressure Very Good	2
Sensor Quality	
176 Colour Very Good	2
Recognition Sensor Quality	
177 Water Flow Sensor Very Good Quality	2
178 Sound Sensor Very Good	2
Quality	-
179 IR Sensor Array for Very Good	2
Line Following Quality	
180 RFID Reader-Tags Very Good	2
Quality	
181 RF Modules Tx& Very Good	2
Rx 315 MHz ASK Quality	
182 Stepper motor with Very Good Driver Board Quality	2
183 Servo Motor 360 Very Good	10
rotation Quality	10
184 Servo Motor 180 Very Good	10
rotation Quality	
185 Metal Gear Servo Very Good	10
Motor (180° Quality Rotation)	
186 Solder Wire Very Good	10
100grm Quality	

187	Solder Flux	Very Good	10
		Quality	
188	830 Points	Very Good	5
	Solderless	Quality	
	Breadboard		
189	400 Points	Very Good	5
	Solderless	Quality	
	Breadboard		
190	Copper Clad Board	Very Good	10
	single side	Quality	
191	Copper clad board	Very Good	10
	double side	Quality	
192	Male to Male	Very Good	10
	Breadboard Jumper	Quality	
193	Female to Female	Very Good	10
	Breadboard Jumper	Quality	
194	Male to Female	Very Good	10
	Breadboard Jumper	Quality	

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 (Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru Campus, Kasavanahalli, Carmelaram Post, Off Sarjapur Road, Bengaluru, 560035). 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 to idealab@blr.amrita.edu) or in hard copy form, as specifically mentioned in the tender notice. All quotations must be printed on the bidder's official letterhead and duly signed by an authorized representative.

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

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

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

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

3. Technical Documentation and Compliance

The bidder must furnish complete technical documentation for each quoted item. This includes detailed product specifications, installation manuals, operation and maintenance manuals. The bidder is also required to submit a layout/design proposal aligned with the lab setup requirements, highlighting compliance points against the tender specifications.

Original technical brochures or scanned versions of product catalogs should be submitted with the bid. Wherever available, URLs to the OEM's official product page should also be provided for cross verification.

Each bidder must clearly mention the make, model, and complete technical specifications for the equipment being offered. A compliance sheet responding to each technical requirement outlined in the tender must be prepared and duly signed.

4. Eligibility and Qualification Criteria

All bidders must be OEMs or authorized partners/distributors with valid authorization for the products they are quoting. Authorization letters must be submitted on the OEM's official letterhead.

Bidders must demonstrate relevant experience by submitting a minimum of three Purchase Orders (executed within the last five years) for similar equipment supplied to academic, R&D, or industrial institutions. A list of at least five institutional clients (with contact information) must be provided as a reference.

It is mandatory that the bidder or OEM has a registered support office in India to provide warranty and after-sales support. In the case of imported equipment, either the OEM or their authorized seller must submit a certificate confirming the presence of such a service support facility in India.

The OEM must also submit a declaration confirming the availability of spare parts for the quoted products for a minimum of one year and authorize the bidder to participate in the tender.

5. Financial Criteria

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

Prices quoted must be inclusive of all taxes (GST, customs, etc.), transportation, packaging, insurance, unloading, installation, commissioning, and training charges. There shall be no extra claim under any circumstances after the finalization of the bid.

The quoted prices must be firm and fixed throughout the duration of the contract. No escalation in price will be allowed under any pretext.

6. Evaluation and Award of Contract

All bids will be evaluated on the basis of compliance with the technical specifications, completeness of submitted documentation, financial eligibility, and price competitiveness. The contract shall be awarded to the bidder whose offer is determined to be technically responsive and lowest in cost.

The purchaser reserves the absolute right to reject any or all bids without assigning any reason. The final decision on selection will be at the sole discretion of the purchaser and shall be binding on all parties.

7. Warranty and After-Sales Service

All equipment must carry a minimum onsite warranty of at least **four 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 labour 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 **October 15, 2025** (Wednesday) to the email **ID** idealab@blr.amrita.edu or sent in hard copy to:

Attention: Dr Vivek Venugopal, Ph;7736066180

Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru Campus, Kasavanahalli, Carmelaram Post, Off Sarjapur road, Bengaluru, 560035

On Behalf of AMRITA-AICTE IDEA Lab, Bengaluru

PRINCIPAL
Amrita School of Engineering
Kasavanahalli. Carmelaram Post,
BENGALURU · 560 035

Chief Mentor: Dr. Sriram Devanathan (Principal, Amrita School of Engineering)

Coordinator: Dr. Rajeevlochana G. Chittawadigi

Co-Coordinator: Dr. Vivek Venugopal

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