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Phone: 0422-4242477 | Mob: 90470 10006

Tender Notice

Tender Ref. No: HITECH/ IDEA Lab/IDEA202000219/2025-26/01 Date:05.08.2025

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.







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The detailed specifications of the required items are enclosed with this document.

Sr. No	Equipments	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D printer	Branded Company Product with at least three 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 \(^10.8\text{mm}\) Steel Sheet: Provided with satin or smooth PEI surface. Filament Diameter: 1. 75mm (supports PLA, PETG, ASA, ABS, etc.). Extruder: Gearbox with 1/1.0 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 three years product warranty	Cuttable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc Table Size: 225 (XJ x 150 (Y) mm or more Drive System: Stepping Motor (X, Y, Z Axis) Operating Speed: 800 mm/min	1







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			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-SO	
			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.SA (via AC 100-	
			240V, 50/60Hz adapter)	
			Power Consumption: Approx. SOW or more	
3	CO2 Laser	Branded Company	Working Area: Min 600 x 9100 mm or above	
	Cutting	Product with at	Laser Type: CO2 DC Glass Laser Tube/RF	
	Machine	least three years	Metal Laser Tube	
		product warranty	Laser Power: 80/1010W	
			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	1
			Supply Voltage: 230V/41S V	
			Accessories:	
			CO2 Focus Lens: 1 No.	
			Mirror 25mm: 3 Nos.	
			Acetone: 1 litre	
			Acrylic sheet: 2 Nos	

4	Vinyl Printer	Branded	Dimensions: 50 cm x 1S cm x 15 cm or above	1
7	Villyl I filliter	Company Product with at least Two years Warranty	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







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5	3D Scanner	Branded	Technology: Stereo camera structured light with	1
		Company	focusable cameras or equivalent	
		Product	CPU: Quad-core 64-bit SoC, 1.5GHz with	
		with at	integrated GPU RAM: 4GB	
		least three	Projector: OLP MEMS mirror or equivalent	
		years	Camera Sensor: Sony 13 MP or better	
		product	Scan Speed: 4 seconds or more Working	
		warranty	Distance: Effective Working Distance: 160mm-	
			1400mm Scan Speed: 980,000points/s, up to 14FPS	
			Align Modes: Feature Alignment, Hybrid	
			Alignment, Texture Alignment, Global Markers	







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	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 x 60 x 60 mm Compatible OS: Any OS supporting a modern web browser	







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6	Lathe Machine cum	Branded	Centr, e Width: Up to 400 mm or better Height of	1
	milling	Company	Centers: Up to 88 mm Maximum Workpiece	
		Product	Diameter: Up to 100	
		with at	mm	
		least three	Machine Base: Cross-ribbed surface, high- quality cast	
		years	iron with ground i!Jrismatic guide, capable of fitting	
		product	miDing/drilling attachment Spindle: Supported with	
		warranty	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,	
			centricailly 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: SSOW or better, induction motor,	
			single phase 230V	
			Traverse Cross: Up to 70 mm or better Traverse	
			Longitudinal: Up to 301) mm or better	
			Weight (Complete): Up to SS kg or more	
			Additional Accessories:	
			Splash guard and chip coilecting tray: 1 No. Cutter set	
			with tungsten inserts: 2 Nos.	
			Milling Attachment: lnos	
			Tungsten disposable tips ten-piece set: 1 No. Sample	
			workpieces (Nylon Rod, Aluminium Rod]	
			Desktop: 1 No.	







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7	CNC Router	Branded Company Product with at least three years product warranty	Working Area: Min 1300 x 2S00 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 Structur,e: Rack Pinion, Ball Screw Linear Rails Max Spindle Speed: Min 18000RPM Table:: T-Slot/Vacuum Bed/Water Bed Repeatability: +0.\frac{1}{03} Working Mode: Stepper Motor/Servo Motor Dust Collector: To be included by Vendor Voltage: AC 220V/411.SV, 50/60 Hz, 3 Phase	1
8	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Ti ting Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm	1
9	Scroll Saw	Branded Company Product with at least three years product warranty	Power input: 50 Watt Thickness of Cut: 50 mm (2 inch] Throat: 406 mm (16 inch] Length of Stroke: 18 mm (11/16 inch] Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch)	1
10	Wood Turning Lathe	Branded Company Product with at least: three years product warranty	Motor: 230V-50Hz, 550W, S2:1Smin 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







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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 ¹¹) Wood: Min 24 mm (15/16") No Load Speed (RPM): 570,890, 1,300, 1,900, 2,670(5 ¹ 0 Hz), 690, 1,070, 1,560, 2,280, 3,200(6·0 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 1.0 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 +SV Welding Current Range: 15-200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L> <wxhj (approx.):="" 320x120x195="" 4.3="" handle:="" kg="" less<="" mm="" or="" td="" upto="" weight="" with=""><td>1</td></wxhj>	1







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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
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	Operating Temperature Range: Min 45°C- 10°C Drying Time Setting: 0-48 hours or higher Hot-Air Heating: upto 360° circulation Moving Speed: 300 mm/s or more Power Rating: 161) W Shipping Weight: 2.5 kg	1







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1S	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: 300x320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1-8 min or less Temoerature Range: 0°C-280°C Overall Dimensions: min 350x450 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 CurrentAccuracy: +1.5°/0 + 3 digits (approximate] AC CurrentAccuracy: +1.5% + 3 digits (typical] Resistance Measurement: Up to 40 Mn 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 (HxWxLJ: Approximately 183x91x49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CA'.T JII 600Vand CAT JI 1000Venvironments with Pollution Degree 2 classification	5
17	MSO 100 MHz	Branded Company Product with at least three years product warranty	Bandwidth: Up to 100 MHz Analog Channels: 4 or more Real-Time Sampling Rate: Maximum 1 GSa/s per channel Memory Depth: 10 Mpts per channel Waveform Update Rate: Approximately 120,000 wfms/s Vertical Resolution: 8 bits Vertical Scale: Ranging from 1 mV/div to 10 V/div	1







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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 (slooe), 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, sine, 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 x 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-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution IDegree 2 classification		
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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 x 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-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	as sine, square, pulse, ramp, DC, noise, sine, Gaussian,	
Resolution: 14 bits Display: 8-inch WVGA TFT LCD (800 x 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-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	÷ ÷ ÷	
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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-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	Display: 8-inch WVGA TFT LCD (800 x 480 pixels)	
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for efficient waveform storage and retrieval Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	Segmented Memory: Supports up to 29,000 segments	
Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-No Go BNC Dimensions (W x H x DJ: 380x 200x 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution		
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Safety Compliance: Conforms to !EC 61010-1 and !EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	DJ: 380x 200x 125 mm or above	
!EC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000Venvironments with Pollution	Weight: 2 Kgs or above	
600V and CAT II 1000Venvironments with Pollution	Safety Compliance: Conforms to !EC 61010-1 and	
600V and CAT II 1000Venvironments with Pollution	• 1	
IDegree 2 classification	600V and CAT II 1000Venvironments with Pollution	
	IDegree 2 classification	







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18	Digital oscilloscope	Branded	Number of Channels: Up to 2 independent analog	1
		Company	inputs	
		Product	Memory Record Length: Up to 10 Mpts for extended	
		with at	waveform capture	
		least three	Bandwidth Limiting: Selectable 20 MHz bandwidth	
		years	filter	
		product	Sampling Rate: Maximum of 1 GSa/s real-time	
		warranty	equivalent per channel	
			Rise Time: s: 3.5 ns depending on probe and settings	
			Display: 7" TFT color LCD with 800x480 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 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 x	
			200 x 120 mm or above Unit Weight: 2.5 kg or above	
			Input Impedance: Nominal 1 Mn// 16pF Measurement	
			Capabilities: Equipped for	
			automatic nairameter extraction, background	
			noise filtering, and AUTOSET configuration for	
			display scaling (time base/gain) Protocol Decoding	
			Support: Capable of analyzing l2C, SPI, UART, CAN,	
			and LIN communication protocols	
			Standard Accessories: Includes mains power cable,	
			user manual (digital format), and one GTL-161E	
			probe per input channel	
		I .	1	







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19	Function Generator	Branded Company Product with at least three years product warranty	Output Configuration: 4-channel design with independent electrical isolation across all outputs Channel Output Ranges: • CHI & CH2:: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A • CH3: Variable range O to SV supporting up to 1A • CH4: Output adjustable from Oto 15V with a load current of up to 1A Constant Voltage Operating Mode Line Regulation: < 0.01% + 3 mV (approximate value within rated voltage range) Load Regulation: s 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: s 0.2% + 3 rnA 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 reconfi12:uration reauired1 Power Requirements Supply Input: 230V AC +10°/o, 50 Hz Mechanical Specifications Maximum Dimensions (W x H x D): Within 200 mm x 100 mm x 200 mm Maximum Weight 10 kg or less	1
20	runction Generator	Company Product with at least three years product	Output Function: The equipment shaU 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	1







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21	Danah Tan	Drawlad	maintained within a maximum of 0.11. 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-pJ into a 50 n load. Amplitude Accuracy: Amplitude accuracy shall be within ±20% at maximum amplitude setting. Output Impedance: Nominal output impedance shall be 50 n with a tolerance of ±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 shaU be controlled via an ON/OFF selector switch. Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 1.10 V ±10%, with frequency 50/60 Hz. Ambient Operating Temperature: Normal operation shall be ensured wi thin the ambient temperature range of O °C to 40 °C. Dimensions: Maximum dimensions shall not exceed 255 mm (WJ x 95 mm (HJ x 295 mm (DJ. Weight: Maximum device weight shan be within 2.5 kg.	
21	Bench Top Multimeter	Branded Company Product with at least three years product warranty	DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: ±(0.03% rdg + 4 digits]. Input impedance: 10 M.O	1







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22	Non-Contact Voltage	Branded	AC Voltage (True RMS): Range: 500 mV to 1000 V	
	Tester	Company	across 5 ranges. Accuracy: $\pm (0.5\% - 5\% \text{ rdg} + \text{digits})$	
		Product	depending on frequency and range. Input impedance:	
		with at	10 M!l.	
		least three	DC Current: Range: 500 µA to 20 A across 6 ranges.	
		years	Accuracy: $\pm (0.02^{\circ}/o_{-}0.3\%)$ rdg + 2 digits) depending	
		product	on range.	
		warranty	AC Current (True RMS): Range: 500 µA to 20	
			A across 6 ranges. Accuracy: <u>+(0.5%-1</u> % rdg	
			+ digits) depending on frequency. Resistance: Range:	
			500 !1 to 20 Mn across 6 ranges. Accuracy: ±(OJº/o-	
			0.3% rdg + digits) depending on range.	
			Diode Test: Max forward voltage 1.5 V, open voltage	
			28 V.	
			Capacitance: Range: S nF to SO μF. Accuracy:	
			$\pm (2\% \text{ rdg} + 4 \text{ digits}).$	
			Frequency: Input level varies by range; functions	
			include Auto/Manual Range, Max, Min, dBm, Rel,	
			Hold.	
			Continuity Beep: Threshold <5 D	
			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 x	
			91 x 291 mm; 2.6 kg.	
			-	







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			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 tor 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 x 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 x 30 mm x 25 mm). Weight: LightiN"eight, approximately 150 g for ease of portability.	5
23	LCIR Meter	Branded Company Product with at least three	Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both orimary and secondary	1







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	years	displays.	
	product	Basic Accuracy: Within <u>+0.2%</u> under standard	
	warranty	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.	
		- •	







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24	Digital Microscope	Branded Company Product with at least three years product warranty	Power Rating: Approximately 60 W maximum output power. Temperature Range: Adjustable from approximately 200 °Cup 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 x 100 mm x 90 mm (W x H x D) or above Weight: Approximately 1.5 kg for ease of oortability and bench use.	1
23	Digital Microscope	Company Product with at least three years product warranty	LED lights Resolution: 1920x1080, 640*480 Pixel: 30W Focal length: 3-40mm manual adjustment Support Android 4.2 or above/widows/Mac system	1







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26	Soldering Rework	Branded	Soldering Iron Power: Up to approximately 60 W	1
	Station	Company	output power with temperature adjustable within	
		Product	approximately 200 °(to 480 °C range. Heating	
		with at	Element: Needle bit with MCH heater providing rapid	
		least three	heat-up and stable temperature control within ± 2 °(.	
		years	Hot Air Blower Power: Up to approximately 500 W	
		product	output power with temperature adjustable within	
		warranty	approximately 200 °C to 450 °(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: Microcon.troller-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 x 180 mm	
			x 140 mm (W x H x D). Weight: Approximately 3.5	
			kg.	
			Power Source: AC 220 V <u>+10%</u> , 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	
			temperature approximately 0 0 to 10 0	







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27	Hand Drill Machine	Branded Company Product with at least three years product warranty	Rated In.put Power: Approximately 51:J0 W or above maximum power consumption. Bit Holdler:: 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 to tal 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	Torque (soft/hard/max.): Min 21/50/- Nm No-load speed (1st gear/ 2ndgear): Min I) - 500 / 0 -1.,900 rpm	2
		least three years product warranty	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.S / 13 mm Weight excl. battery: 0.99 kg Torque settings: 20+2 or better	
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 aipproximaitely -45° to 45° range.	1







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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 x 130 mm maximum cross-section. Cutting Capacity at 45° Mitre: Approximately 90 mm x 91 mm maximum cross-section. Cutting Capacity at 45° Bevel: Approximately 60 mm x 130 mm maximum cross-section. Tool Dimensions (WxLxH): Approximately 477 mm x 559 mm x 567 mm. No-Load Speed: Fixed at approximately 5,00°0 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 targettemperature. Airflow: Adjustable within approximately 350 to 550 liters per minute. Airflow Control: Three selectable airflow settings	2







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32	Table saw	Branded Company Product with at least three years product warranty	Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm Weight24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting- hei2"ht 45°: 55 mm	1
33	Bench grinder	Branded Company Product with at least three years product warranty	Grinding wheel diameter: min 150 mm Rated input power: 35 0 W or more Grinding wheel widths: 20 mm or more No-load speed: upto 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less	1
34	Angle Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Approx:imately 670 W maximum power consumption. No-Load Speed: Approximately 11,000 rpm. Disc Diameter: Approximately 100 mm nominal diameter. Grinding Spindle Thread: Standard MIO thread. Weight: Approximately 1.5 kg. Switch: Lockable switch for operational safety.	1
35	Straight Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, Eliectrical: Nominal 230 V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Up to 25 mm. Maximum Collet Diameter: Up to 8 mm. Switch: Lockable switch for enhanced safety.	1







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36	Circular Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,400 W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically 5,200 rpm. Weight: Around 4.1 kg	1
37	Blower	Branded Company Product with at least three years product warranty	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within <u>+3</u> dB	1
38	Cordless Screw Driver	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 O up to 400 rpm and O up to 1,500 rpm respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable settings.	1







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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, Eliectrical: 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



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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. Weight: Circa 2.8 1kg 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 three 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







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43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	Rated Power Input: Approximately 175 W within nominal voltage range. Voltage: Operates within 220 ito 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	
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 x 12.4 cm x 3.6 cm (L x W x H) overall size	2



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47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight Dimensions: Around 32.6 cm x 10 cm x 2 cm (L x W x HJ overall measurements.	2
48	Rubber mallet	Very Good Quality	Weight: Approximately 450 grams nominal weight Dimensions: Around 33.6 cm x 9.6 cm x 6.2 cm (L x W x H) overall size.	2
49	Ring spanner set 1.2Pcs	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: Approxl.74Kg nom.wt Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
51	Combination Spann,er set 8Pcs	Very Good Quality	Weight: Approx649g nom.wt. Qty: Bpcs/set.	1
52	Allen key set 1.0pcs	Very Good Quality	Hex Key Size: 1.5,2,2.S,3,4,5,S.5,6,8,lOmm; Qty:lOpcs/set	2
53	Allen key set 1.2pcs	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	Combinatio111 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" nominal	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







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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.S,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):205x115x55 overall	2







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77	Baby wise	Very Good Quality	Vice Type: Bench Size:2" nominal JawWidth: S0mm	2
78	Ratchet Set	Very Good Quality	Vice Type: Bench Sz:2" nominal; Jaw:SOmm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Calliper Meas. Range:0-150rnm / 0-6" Resolution: 0.01mm	2
81	Micrometer	Very Good Quality	Resolution: 0.00 lmm/0.000 05" MeasRange:0-2Smm/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:150x80mm nominal Material: Carbon Steel	2
8S	Meter Tape 30m	Very Good Quality	Length: 30 m	1
86	Measuring Tape 3M	Very Good Quality	Length: 3 m	3
87	Measuring Tape SM	Very Good Quality	Length: 5 m	3
88	Spirit Level	Very Good Quality	Vials:3 Accuracy:O.Smm/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	so







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93	Fire Extinguisher	Very Good Quality	Fire Extinguisher- Indusl1:rial Standard Make	6
94	First Aid Kit	Very Good Quality	First Aid Kit - Industrial Standard Make	2
9S	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: t.1.pto 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims{mm}:45Sx2S2x320 PowerOut:700W or less	1
97	Refrigerator	Branded Company Product with at least three years product warranty	Capacity:183L or more Ann ualE ne rgyConsum ption:1-48kWh /Yiear or less RefrigeratorFreshFoodCapacity:16SL or more Freezer Capacity: min 18L BottleCount:S or more NoiseLevel:40dB or less Installation l'ype: Freestanding	1







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98	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx 7.5inch (190 cm) Up to Resolution: 4KUHDorHigher Brightness: Min 3S0 nits; Typ400nitsApprox Contrast Ratio: Typ 1200: 1Upto Response Time: Approx Bms Viewing Angle: Approx1 78DegreesWide Worki ngFreq uency:1.SGHzNominal RAM:4GBOrMore I nternalStorage:32GBMin OS: Android Based HDMI: 3Ports USIB: 2Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20Approx Voltage:DC+5V+5%Range OPS: Optional	
99	Projector	Branded Company Product with at least three years product warranty	Projection Tech: RGB liqt.1.id crys tal shutter projection (3LCD) Up to Connectivity: USS Type B: lport (FirmwareUpdate/Copy OSD) Approx Analog lnput:D-Sub lSpin:lport Digital Input: HDMI: 1 port Projection Lens: Type: No Optical Zoom/Focus (Manual) Nominal Focal Length: 16. 70mm Approx FNumber:1.4!-4 Nominal Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00-1.35(Digital Zoom Approx	1







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100	Printer	Branded	Functions: Print, Scan, Copy Printer Type: Laser	1
100		Company	Nominal Dims{mm):409x398.5x267Approx	
		Product	Weight: 9.7KgN ominal	
		with at	PrintSpeed:Upto30ppm(A4Size)Approx	
		least three	Warranty: 1 Year On-Site	
		years	PrintResol ution:600 x600dpi,HQ1200 (2400 x	
		product	600dpi) Quality Approx	
		warranty	2Sided-Duplex-	
		wairanty	PaperType: Plain,Thin,RecycledA pprox 2Sided-	
			Duplex-PaperSize:A4 PaperHandling:Tray#l-	
			PaperType: Plain,Thin,Recycled	
			Tray#1-	
			MaxCapacity: Upto2 50Sheets(80 g/m ²)Approx	
			PaperOutput: Upto1 IJ0Sheets(80g/m ² JFace Do	
			wnTray; OneSheetFaceUpTrayApprox	
			Copy- Colour /Mono: Yes/Yes Multiple Copies:	
			Sorts/StacksUpto99 PaigesApprox Enlarge/	
			Reduce:25%-	
			400°/o(lnl o/oSteps)Approx	
			CopyResolution:600x600dpi 2Sided-Duplex-	
			CopyPaperType:Plain,Thin,Recycled 2Sided-Duplex-	
			CopyPaperSize:A4 Scan-	
			ResolutionInterpolated:Upto19 200 x19200dp iApprox	
			Scan- ResolutionGlass:Upto600x241J0dpiApprox	
			Connectivity: Hi-Speed USB2.0	
			DisplayTyp e:16 Chars x 2Lines	
			MemoryCapacity:32MBApprox PowerSource: 220-	
			240VAC50 /60 Hz PowerCo nsum ption-Ready:	
			Approx60W PowerConsum ption-Sleep: Approx6.6W	
			PowerCo nsum ption-Off: ApproxO.0SW	
			NoiseLevel:S0dB(A)Approx	
	L			







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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	30 printer Filament	Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal FilamentLength:330mApprox Dim Accuracy: +/-0.lmmAoorox Roundness Accuracy: +/-0.5mmApprox Spool Inner Dia:SS mm Nominal Spool Outer Dia: 200 mm Approx Spool Weight:3OOgNominal Spool Width:65mmApprox	10
103	Acrylic Sheet 3mm, 4ft x 4ft	Very Good Quality		20
104	Acrylic Sheet 4mm, 4ft x 4ft	Very Good Quality		20
105	Acrylic Sheet 5mm, 4ft x 4ft	Very Good Quality		20
106	Foam Sheet 8mm, 4ftx 4ft	Very Good Quality		2
107	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality		1
108	Foam Sheet 12mm, 4ft x 4ft	Very Good Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1
110	Ply Board 5mm, 2ft X 4ft	Very Good Quality		12
111	Nylon Rod 10mm, lm	Very Good Quality		5
112	Nuts (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of 100	Very Good Quality		1







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113	Bolts (3mm,4rnm,5mm, 6mm,8mm,11.0mm, 12mm) dia 1" Inch Pack of 100	Very Good Quality	1
114	Screws (3mm,4mm,5mrn) Pack of 1.00	Very Good Quality	1
115	Washers (3mm,4rnm,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" _I 2" _{I'} 3", 1.5" _I S") Pack of 1.00	Very Good Quality	1
118	Fevicol 2Kg	Very Good Quality	1
119	2 Way Tape	Very Good Quality	10
120	PVC Pipe .75",10ft	Very Good Quality	10
121	PVC Pipe 1",lOft	Very Good Quality	10
122	PVC Pipe 1.S",10ft	Very Good Quality	10
123	PVC Pipe 2.0",10ft	Very Good Quality	10
124	Aluminium channels (L, C, Box, strip length 12ft)	Very Good Quality	2
125	PCB Drill Bit 0.4mm	Very Good Quality	10
126	PCB Drill Bit 0.8mm	Very Good Quality	10







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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 NodeMCU	Very Good Quality	2
136	ESP32 Development Board	Very Good Quality	2
137	Beaglebone blue	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







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144	7 Segment LED Display	Very Good Quality	2
145	GSM/GPRS/GPS Module	Very Good Quality	2
146	Laser Module	Very Good Quality	2
147	LDRModul,e	Very Good Quality	2
148	4x4 Matrix Keypad	Very Good Quality	2
149	Joy Stick Module	Very Good Quality	2
150	Active Buzzer (BIG)	Very Good Quality	2
151	Active Buzzer (SMALL)	Very Good Quality	2
152	Motor Driver	Very Good Quality	2
153	Sound Playback Module	Very Good Quality	2
154	BO Motors	Very Good Quality	10
155	Vibrating Motor	Very Good Quality	10
156	Capacitive Touch Switch	Very Good Quality	2
157	IR Sensors (Obstacle Sensors)	Very Good Quality	2
158	Triple Axis Magnetometer	Very Good Quality	2
159	Humidity Sensor	Very Good Quality	2
160	MQ-2	Very Good Quality	2







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161	MQ-3	Very Good Quality	2
162	MQ-4	Very Good Quality	2
163	MQ-5	Very Good Quality	2
164	MQ-7	Very Good Quality	2
165	Ultrasonic Sensor Module	Very Good Quality	2
166	Triple Axis accelerometer	Very Good Quality	2
167	PIR Motion Detector Module	Very Good Quality	2
168	Pulse Rate Heart Sensor	Very Good Quality	2
169	Relay Module	Very Good Quality	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







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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 Solder less 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







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Terms and Conditions

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

1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order (e.g., XYZ Institute of Technology, [Insert Address]). 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.







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- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.
- Copy of submitted GST return (atleast 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
- 1ITs/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.







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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







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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 X5 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 an selection will be at the sole discretion of the purchaser and shall be binding on all parties.







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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.







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10. Submission Deadline and Contact Details

All quotations must be submitted by 30th August 2025/5.00pm to the email ID hitechidealab@hit.edu.in

or

sent in hard copy to:

The Principal
Hindusthan Institute of Technology
Valley Campus, Pollachi Highway, Coimbatore – 641032.

· Contact details:

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