

# P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Approved by AICTE, New Delhi & Accredited by National Board of Accreditation (NBA)
Accredited by NAAC with A+ Grade, recognized under 2(f) and 12(b) of the UGC Act, 1956.
An ISO 9001: 2015 Certified Institution



Sevalpatti (P.O), Sivakasi - 626140. Tamilnadu.

# PSR – AICTE IDEA LAB

## **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 machinery required for establishing an AICTE IDEA Lab at our institute. The laboratory is developed in accordance with AICTE guidelines to foster innovation, design thinking, and prototyping skills among students and faculty members. The items required with minimum specifications are listed below.

## **LIST OF EQUIPMENTS WITH SPECIFICATIONS**

Sr. No	Equipments	Preferred	Specifications	Qty
		brands if any		
1	3D Scanner	Reputed	Technology: Stereo camera structured light with	1
		Company	focusable cameras or equivalent	
		Product	CPU: Quad-core 64-bit SoC, 1.5GHz with	
		with 3 years	integrated GPU	
		warranty	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	
			Minimum Capturable Feature Size: 0.2 mm or less	
			Scanner Weight: 500 grams or less	
			Scanner Dimensions: upto $240 \times 60 \times 60 \text{ mm}$	
			Compatible OS: Any OS supporting a modern	
			web browser	
2	Single Nozzle	Reputed	Printing Technology: Fused Filament	1
	3D printer	Company	Fabrication (FFF) or Fused Deposition Modeling	
		Product	(FDM).	
		with 3 years	Printable Area: The minimum printable area	
		warranty	should be at least 310 x 310 x 310 mm or above	
		_	Printer Design: Core XY or Cartesian.	

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, Resible 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.  Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece Diameter: Up to 100mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better 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: Inos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod) Desktop: 1 No. Workins Area: Min 600 x 900 mm or above.				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,	
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, Tlexible 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.  Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece Diameter: Up to 100mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Poll! Hole: Up to 22 mm or better Chuck's -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: Inos Trugsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod) Desktop: 1 No.				Steel Sheet: Provided with satin or smooth PEI surface.	
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Lathe Machine cum milling  Reputed Company Product with 3 years warranty  Maximum Workpiece Diameter: Up to 100mm Maximum Workpiece Diameter: Up to 20mm Maximum Workpiece Diameter: Up to 20mm Maximum Workpiece Diameter: Up to 100mm Maximum Workpiece Diameter: Up to 20mm Maximum Workpiece Diameter: Up to 100mm Maximum Workpiece Diameter: Up to 20mm Maximum Workpiece Diameter: Up to 100mm Maximum Maximum Varimpher Maximum Workpiece Diameter: Up to 100mm Maximum Maximum Varimpher Maxi				dimensions of the system 700 X 700 X 700 or	
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Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod) Desktop: 1 No.				Additional Accessories: Splash guard and chip collecting tray: 1 No.	
Rod) Desktop: 1 No.				Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No.	
4 CO2 Laser Reputed Working Area: Min 600 x 900 mm or above 1				Rod) Desktop: 1 No.	
Cutting Company Laser Type: CO2 DC Glass Laser Tube/RF Machine Product Metal Laser Tube	4	_		* *	1

		:4. 0	I D 00/100W	
		with 3 years	Laser Power: 80/100W	
		warranty	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: 1litre	
	V' 1D' (	D 4 1	Acrylic sheet: 2 Nos	1
5	Vinyl Printer	Reputed	Dimensions: 50 cm x 15 cm x 15 cm or above	1
		Company	Weight: 15.4lbs or less	
		Product	Max cut size using machine mat:	
		with 3 years	11.5inch x 23.5 inch or more	
		warranty	Cut speed: up to 14.1ips	
6	PCB Milling	Reputed	Cut table Materials: Modeling Wax, Chemical	1
	Machine	Company	Wood, Foam, Acrylic, Poly Acetate, ABS, PCB,	
		Product	Copper glad, etc	
		with 3 years	Table Size: $225 (X) \times 150 (Y)$ mm or more	
		warranty	Drive System: Stepping Motor (X, Y, Z Axis)	
			Operating Speed: 800 mm/min	
			Software Resolution: 0.01 mm/step	
			Position accuracy: 0.01 to 0.02 mm	
			Max Travel Speed (mm/sec)-58 (2.28 ")	
			Drilling (mm)-0.2 -3.175 (8-125 mil)	
			Maximum Drilling Cycles/ Min-50	
			Spindle Motor: DC Motor Type 380 or More	
			Spindle Speed: Adjustable 20,000 and above rpm	
			or more	
			Tool Chuck Type: Collet	
			Interface: USB or cable	
			Control Commands: RML-1, NC code	
			Power Supply: DC 24V, 2.5A (via AC 100–	
			240V, 50/60Hz adapter)	
			Power Consumption: Approx. 50 W or more	
7	CNC Router	Reputed	Working Area: Min 1300 x 2500 mm	
,	CI (C ROULLI	Company	Z Axis Working Area: 200 or above	
		Product	Resolution: ±0.03/300mm or more	
		with 3 years	CNC Spindle: 3KW or more	
		warranty	Lathe Structure: Welding Steel Structure or	
			equivalent	
			XYZ Structure: Rack Pinion, Ball Screw Linear	1
			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	
8	Belt and Disc	Reputed	Motor: 230V 50Hz	1
	Sanding	Company	Power: 380W S2 30min	
	Machine	Product	No-load Speed: 1450rpm or more	
	1,100111110	with 3 years	Belt Size: 100x914mm or less	
			Disc Size: 150mm or better	
		warranty		
			Table Titing Range: 0°-45°	
			Belt Titing Range: 0°-90°	
			Table Size: upto 190x125mm	

9	Scroll Saw	Reputed	Power input: 50 Watt	1
	Scron Suv	Company	Thickness of Cut: 50 mm (2 inch)	•
		Product	Throat: 406 mm (16 inch)	
		with 3 years	Length of Stroke: 18 mm (11/16 inch)	
		•	Strokes Per Minute: 400-1,600 SPM	
		warranty		
10	D 4 11	D ( 1	Overall Length: 600 mm (23-5/8 inch)	1
10	Portable	Reputed	Welding Current (at 40°C, 10 min cycle): 120A	1
	Welding	Company	@ 100%, 150A @ 60%, 200A @ 35%	
	Machine	Product	Supply Voltage: 240V +10%, -15%, 1 Phase,	
		with 3 years	50/60 Hz	
		warranty	Open Circuit Voltage: 55V DC ±5V	
			Welding Current Range: 15–200 Amps DC	
			Insulation Class: F Type	
			Ingress Protection: IP21	
			Dimensions (L $\times$ W $\times$ H) with Handle: upto	
			320×120×195 mm	
			Weight (Approx.): 4.3 kg or less	
11	Computerized	Reputed	Motor: 120 W	1
	Sewing	Company	Max Sewing Speed: 860 SPM	
	Machine	Product	Power: 220 - 240 V	
		with 3 years	Automation Grade: Automatic	
		warranty	Max Stitch Length: 4mm	
			Thread Type: Computerized	
			Weight: 7.6 kg	
			Number of Stitches:120	
			Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm	
			Maximum Stitch Width: 7 mm	
			Number of Buttonhole Styles:7	
			LCD Screen Display: Yes	
			Bed Type	
			Free Arm/ Flatbed convertible Bobbin Type	
			Drop & Sew Bobbin System	
12	Bench Top	Reputed	Continuous rating input: Max. 250 W	1
	Drill Machine	Company	Capacity: Steel: Min 13 mm (1/2")	
		Product	Wood: Min 24 mm (15/16")	
		with 3 years	No Load Speed (RPM): 570, 890, 1,300, 1,900,	
		warranty	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	
13	Wood Turning	Reputed	Motor: 230V~50Hz, 550W, S2:15min or above	1
	Lathe	Company	Max. Disc Diameter: min 75 mm	=
	1	Product	Max. Cutting Length: 450 mm or more	
		with 3 years	Spindle Speed: 5 speeds such as 1600 / 2600	
		warranty	/ 3200 RPM etc	
			Material: Cast Iron	
			Bed Height: 0.2 m	
			Cable Length: 0.850 m	
14	Digital	Reputed	Display Count: Up to 4000	5
17	multimeter	Company	DC Voltage Range: Up to 1000 V	5
	maranical	Product	AC Voltage Range: Up to 1000 V	
		with 3 years	DC Voltage Accuracy: ±0.5% or ±3 digits,	
			•	
		warranty	whichever is higher AC Voltage Accuracy: Within ±1% + 3 digits	
			DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A	
	J		AC Current incasurement, infaximum 10 A	

DC Current Accuracy: ±1.5% + 3 digits (Approx.) AC Current Accuracy: ±1.5% + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits Operating Temperature Range: From 0°C up to	
Resistance Measurement: Up to $40~M\Omega$ Resistance Accuracy: Estimated at $\pm 1.5\% + 3$ digits Capacitance Measurement: Up to $1000~\mu F$ Capacitance Accuracy: $\pm 5\%$ or $\pm 5$ digits	
Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits	
digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits	
Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits	
Capacitance Accuracy: ±5% or ±5 digits	
Operating Temperature Range: From 0°C up to	
Operating reinperature 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	
	1
Company more	
Product Real-Time Sampling Rate: Maximum 1 GSa/s per	
with 3 years channel	
warranty Memory Depth: 10 Mpts per channel Waveform	
Update Rate: Approximately 120,000 wfms/s	
Vertical Resolution: 8 bits	
Vertical Scale: Ranging from 1 mV/div to 10 V/div	
Horizontal Scale: Spanning 1 ns/div to 100 s/div	
Spectrum Analyzer Frequency Range: DC to 500	
MHz	
FFT Points: Up to 1M points for enhanced	
frequency domain resolution	
Waveform Math Functions: Includes addition,	
subtraction, multiplication, division, minimum,	
maximum, root, square, absolute, inverse,	
derivative, integral, and low-pass filter	
Trigger Types: Edge, Pulse Width, Video, Pulse	
Runt, Rise & Fall (slope), Alternate, Timeout,	
Event-Delay, Time-Delay, and Bus Arbitrary	
Waveform Generator (AWG): Dual- channel, 25	
MHz, supporting various waveforms such as sine,	
square, pulse, ramp, DC, noise, sinc, Gaussian,	
Lorentz, exponential rise/fall, haversine, and	
cardiac	
AWG Sample Rate: 200 MSa/s AWG Vertical	
Resolution: 14 bits	
Display: 8-inch WVGA TFT LCD (800 × 480	
pixels)	
Data Logging Capability: Up to 1000 hours	
Segmented Memory: Supports up to 29,000	
segments for efficient waveform storage and	
retrieval	
Connectivity: USB 2.0 (host and device),	
Ethernet (RJ45), and Go-NoGo BNC Dimensions	
$(W \times H \times D)$ : 380×200×125 mm or above	
Weight: 2 Kgs or above	
Safety Compliance: Conforms to IEC 61010-1	
and IEC 61010-2-030 standards, suitable for CAT	
III 600V and CAT II 1000V environments with	
Pollution Degree 2 classification	

1.6	D.Cl. O	D . 1	N CW 7 1: 1	
16	Reflow Oven	Reputed	No. of Waves: 7 or higher	
		Company	Heating Type: Infrared IC Heater	
		Product	Max. PCB Width: 300×320 mm or more	1
		with 3 years	Power Supply: AC 220V / 50Hz	
		warranty	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	
17	Filament	Danutad		
17		Reputed	Operating Temperature Range: Min 45°C–70°C	
	Dehydrator	Company	Drying Time Setting: 0–48 hours or higher	
		Product	Hot-Air Heating: upto 360° circulation	
		with 3 years	Moving Speed: 300 mm/s or more	1
		warranty	Power Rating: 160 W	
			Shipping Weight: 2.5 kg	
18	Digital	Reputed	Number of Channels: Up to 2 independent	1
	oscilloscope	Company	analog inputs	
	1	Product	Memory Record Length: Up to 10 Mpts for	
		with 3 years	extended waveform capture	
		warranty	Bandwidth Limiting: Selectable 20 MHz	
		warrancy	bandwidth filter	
			Sampling Rate: Maximum of 1 GSa/s real-time	
			equivalent per channel	
			Rise Time: $\leq 3.5$ ns depending on probe and	
			settings	
			Display: 7" TFT color LCD with 800×480	
			resolution	
			Time Base Range: From 5 ns/div to 100 s/div,	
			user-adjustable	
			Vertical Resolution: 8-bit digital resolution	
			Trigger Modes: Automatic, Normal, and	
			Signal-dependent triggering	
			Maximum Input Voltage: 300 Vrms (within	
			safety limits)	
			•	
			Input Sensitivity: Within the range of 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 $350 \times 200$	
			$\times$ 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	
19	Digital	Reputed	Specification: Magnification: 1600X	1
	Microscope	Company	Light source: 8 LED lights Resolution:	
		Product	1920×1080, 640*480 Pixel: 30W	
		with 3 years	Focal length: 3-40mm manual adjustment	
		warranty	Support Android 4.2 or above/windows /Mac	
	1	warrany	Support Android 4.2 of above/willdows/iviac	

			system	
20	Power supply	Reputed	Output Configuration: 4-channel design with	1
		Company	independent electrical isolation across all outputs	
		Product	Channel Output Ranges:	
		with 3 years	• CH1 & CH2: Adjustable output voltage from 0	
		warranty	to 32V with a current delivery capacity up to 3A	
		waitanty	• 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: $\leq 0.01\% + 3 \text{ mV}$	
			(approximate value within rated voltage	
			range)	
			Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across	
			rated load variation)	
			Ripple & Noise: ≤ 1 mVrms across full	
			bandwidth	
			Constant Current Operating Mode Line	
			Regulation: $\leq 0.2\% + 3 \text{ mA Load}$	
			Regulation: $\leq 0.2\% + 3$ mA Ripple	
			Current: $\leq 3 \text{ mArms (typical)}$	
			Safety & Operational Features	
			Output Control: Independent output ON/OFF	
			switching functionality is required	
			Voltage Resolution: Approximately 100 mV (*1)	
			Current Resolution: Approximately 10 mA	
			(*1)	
			Display Parameters	
			Display Units: Four separate displays	
			required for individual channel status	
			visualization	
			Display Type: 4.3-inch LCD (color or	
			monochrome as applicable)	
			Functional Features	
			Tracking Operation: Supported (required for	
			synchronizing output behavior)	
			Auto Series/Parallel: Supported (automatic	
			internal reconfiguration required)	
			Power Requirements	
			Supply Input: 230V AC ±10%, 50 Hz	
			Mechanical Specifications	
			Maximum Dimensions (W $\times$ H $\times$ D): Within 200	
			$mm \times 100 \text{ mm} \times 200 \text{ mm}$	
21	Eunation	Danutad	Maximum Weight: 10 kg or less Output Function: The equipment shell provide	1
21	Function	Reputed	Output Function: The equipment shall provide	1
	Generator	Company	output waveforms including sine, square,	
		Product	triangle, and TTL signals as required.	
		with 3 years	Frequency Range: For sine and square	
		warranty	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	
	1	Î.	i i i cauciic y i i ccui ac y . I iic i i cuaciic y accui ac y	

	1	T	1=	-
			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 $\Omega$ 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 ±10%,	
			with frequency 50/60 Hz.	
			Ambient Operating Temperature: Normal	
			operation shall be ensured within the ambient	
			*	
			temperature range of 0 °C to 40 °C. Dimensions: Maximum dimensions shall not exceed 255 mm	
			(W) × 95 mm (H) × 295 mm (D).	
			Weight: Maximum device weight shall be within	
22	D 1 T	Daniel 1	2.5 kg.	
22	Bench Top	Reputed	DC Voltage: Range: 500 mV to 1000 V across 5	4
	Multimeter	Company	ranges. Accuracy: ±(0.03% rdg + 4 digits).	1
		Product	Input impedance: $10 \text{ M}\Omega$ . AC Voltage (True	
		with 3 years	RMS): Range: 500 mV to 1000 V across 5	
		warranty	ranges. Accuracy: $\pm (0.5\% - 5\% \text{ rdg} + \text{digits})$	
			depending on frequency and range. Input	
			impedance: $10 \text{ M}\Omega$ .	
			DC Current: Range: 500 µA to 20 A across 6	
			ranges. Accuracy: $\pm (0.02\%-0.3\% \text{ rdg} + 2 \text{ digits})$	
			depending on range.	
			AC Current (True RMS): Range: 500 µA to 20	
			A across 6 ranges. Accuracy: ±(0.5%–1% rdg	
			+ digits) depending on frequency. Resistance:	
			Range: $500 \Omega$ to $20 M\Omega$ across 6 ranges.	
			Accuracy: $\pm (0.1\% - 0.3\% \text{ rdg} + \text{digits})$	
			depending on range.	
			Diode Test: Max forward voltage 1.5 V, open	
			voltage 2.8 V.	
			Capacitance: Range: 5 nF to 50 μF. Accuracy:	
			$\pm (2\% \text{ rdg} + 4 \text{ digits}).$	
			Frequency: Input level varies by range; functions	
			include Auto/Manual Range, Max, Min, dBm,	
			Rel, Hold.	
			Continuity Beep: Threshold $<$ 5 $\Omega$ .	
			Display: Dual 7-segment LED, 0.4" and 0.5".	
			Power Source: AC 100/120/230 V ±10%, 50/60	
			Hz.	
			Dimensions & Weight: Approximately $251 \times 91 \times$	
			291 mm; 2.6 kg.	
23	Non-Contact	Reputed	Function: Non-contact AC voltage detection	5
23	Voltage Tester	Company	tester.	5
	, orage rester	Product	Voltage Detection Range: Approximately 90 V to	
		with 3 years	1000 V AC.	
		warranty	Detection Method: Capacitive, with visual and	
	<u> </u>	warranty	Detection friction. 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	
			$2 \times AAA$ or equivalent).	
			Safety Standards: Complies with IEC/EN	
			61010-1 CAT III 1000 V safety standards.	
			Dimensions: Compact, handheld design	
			suitable for field use (approx. 150 mm × 30	
			$mm \times 25 \text{ mm}$ ).	
			Weight: Lightweight, approximately 150 g for	
			ease of portability.	
24	LCR Meter	Reputed	Display: Approximately 2.8" TFT touch LCD	1
	20101110101	Company	screen.	1
		Product	Resolution: 25,000 or above counts	
		with 3 years	resolution on both primary and secondary displays.	
		warranty	Basic Accuracy: Within ±0.2% 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 $\pm 1$ 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	
25	0.11	D	capture and analysis.	2
25	Soldering	Reputed	Power Rating: Approximately 60 W maximum	3
	Station	Company	output power.	
		Product	Temperature Range: Adjustable from	
		with 3 years	approximately 200 °C up to 480 °C.	
		warranty	Temperature Stability: Within ±2 °C under	
			normal operating conditions.	
			Heating Element: Ceramic heating element for	
			rapid heat-up and efficient temperature	
			maintenance.	
			Display: Digital or analog temperature display	
			(depending on variant) for precise temperature	
			control.	
			Temperature Control: Adjustable via knob or	
			digital interface with fine resolution.	
			Power Supply: AC 220 V $\pm 10\%$ , 50/60 Hz.	

		1		
			Safety Features: Thermal cutoff and overload	
			protection within required standards.	
			Dimensions: Compact design with 100 mm ×	
			$100 \text{ mm} \times 90 \text{ mm} (W \times H \times D) \text{ or above}$	
			Weight: Approximately 1.5 kg for ease of	
26	0.11	D 1	portability and bench use.	- 1
26	Soldering	Reputed	Soldering Iron Power: Up to approximately 60 W	1
	Rework Station	1 2	output power with temperature adjustable within	
		Product	approximately 200 °C to 480 °C range. Heating	
		with 3 years	Element: Needle bit with MCH heater providing	
		warranty	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	
			$\times$ 140 mm (W × H × D).	
			Weight: Approximately 3.5 kg.	
			Power Source: AC 220 V ±10%, 50/60 Hz.	
			Accessories: Includes soldering iron with needle	
			bit, hot air blower with 3 nozzles, iron stand with	
			sponge, hot air cradle, patch cord, and power	
			cord.	
			Operating Temperature: Suitable for ambient	
			temperature approximately 0 °C to 40 °C	
27	Hand Drill	Reputed	Rated Input Power: Approximately 500 W or	2
	Machine	Company	above maximum power consumption.	
		Product	Bit Holder: Standard 1/2"-20 UNF thread type.	
		with 3 years	No-Load Speed (1st Gear): Adjustable from 0	
		warranty	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.	
		Reputed	Torque (soft/hard/max.): Min 21/50/-	2
28	Cordless drill	_	Nm No-load speed (1st gear / 2nd	
20	Cordiess drill	Company Product	Nm No-load speed (1st gear / 2nd gear): Min $0 - 500 / 0 - 1,900$ rpm	
		with 3 years	Weight incl. battery: 1.3 kg or less	
		warranty	Max. impact rate: 27,000 bpm	
		wairancy	Battery type: Lithium-Ion or equivalent	
L	1		Dattery type. Littliam-ion of equivalent	l

		1	01 1 :	
			Chuck capacity, min./max.: 1.5 / 13 mm	
			Weight excl. battery: 0.99 kg	
			Torque settings: 20+2 or better	
29	Jig Saw	Reputed	Rated Input Power: Approximately 500 W	1
		Company	maximum power consumption.	
		Product	Voltage, Electrical: Nominal 230 V AC supply.	
		with 3 years	Saw Stroke Length: Approximately 20 mm	
		warranty	stroke length.	
		,, arrang	Stroke Rate at No Load: Adjustable within	
			approximately 800 to 3,100 spm (strokes per min).	
			Weight: Approximately 2.08 kg total weight.	
			• 11	
			Bevel Angle: Adjustable within approximately	
20	3.4% G	D 1	-45° to 45° range.	-
30	Miter Saw	Reputed	Rated Input Power: Approximately 1,750 W	1
		Company	maximum power consumption.	
		Product	Saw Blade Diameter: Approximately 254 mm	
		with 3 years	nominal diameter.	
		warranty	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	
			$\times$ 559 mm $\times$ 567 mm.	
			No-Load Speed: Fixed at approximately 5,000 rpm.	
			Weight: Approximately 11.1 kg.	
31	Hot air gun	Reputed	Rated Input Power: Approximately 1,800 W	2
		Company	maximum power consumption.	
		Product	Voltage, Electrical: Nominal 230 V AC supply.	
		with 3 years	Weight: Approximately 0.75 kg.	
		warranty	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	
22	T. 1.1	D . 1	settings.	1
32	Table saw	Reputed	Rated input power: Max 1800 W	1
		Company	Incline setting: 45 ° L / 0 ° R Table	
		Product	size: Up to 555 x 555 mm Saw	
		with 3 years	blade diameter: 254 mm Cutting	
		warranty	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 height 45°: 55 mm	
33	Bench grinder	Reputed	Grinding wheel diameter: min 150 mm	1
رد	Denen grinder	reputed	Ormaniz wheel diameter. Illin 130 Illin	1

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		Company	Rated input power: 350 W or more	
		Product	Grinding wheel widths: 20 mm or more	
		with 3 years	No-load speed: upto 3,000 rpm Grinding	
		warranty	wheel bore: 20 mm/2cm	
			Grit 24, 60 or more	
			Weight: 10 kg or less	
34	Angle Grinder	Reputed	Rated Input Power: Approximately 670 W	1
		Company	maximum power consumption.	
		Product	No-Load Speed: Approximately 11,000 rpm. Disc	
		with 3 years	Diameter: Approximately 100 mm nominal	
		warranty	diameter.	
			Grinding Spindle Thread: Standard M10 thread.	
			Weight: Approximately 1.5 kg.	
			Switch: Lockable switch for operational safety.	
35	Straight	Reputed	Rated Input Power: Max 300 W power	
	Grinder	Company	consumption.	
		Product	No-Load Speed: Up to 28,000 rpm.	
		with 3 years	Voltage, Electrical: Nominal 230 V AC supply.	
		warranty	Spindle Collar Diameter: Approximately 41 mm.	
			Weight: Around 1.4 kg.	1
			Maximum Grinding Tool Diameter: Up to 25 mm.	
			Maximum Collet Diameter: Up to 8 mm.	
			Switch: Lockable switch for enhanced safety.	
36	Circular Saw	Reputed	Rated Input Power: Approximately 1,400 W	1
		Company	maximum consumption.	
		Product	Saw Blade Diameter: Nominal 184 mm diameter.	
		with 3 years	Saw Blade Bore Diameter: About 20 mm	
		warranty	standard bore size.	
			Guide Rail Compatibility: Not compatible with	
			guide rails.	
			No-Load Speed: Typically 5,200 rpm.	
			Weight: Around 4.1 kg	
37	Blower	Reputed	Rated Input Power: Max 650 W power	1
		Company	consumption.	
		Product	Weight: Approximately 1.7 kg.	
		with 3 years	Voltage, Electrical: Nominal 230 V AC supply.	
		warranty	Sound Pressure Level: Around 103 dB(A).	
			Sound Power Level: Approximately 95 dB(A).	
			Uncertainty (K): Within ±3 dB	
38	Cordless Screw	Reputed	Battery Capacity: Around 1.5 Ah nominal	1
	Driver	Company	capacity.	
		Product	Torque (Soft/Hard/Max): Approximately 14 Nm /	
		with 3 years	30 Nm / Maximum not specified.	
		warranty	No-Load Speed (1st Gear / 2nd Gear): Ranges	
			from 0 up to 400 rpm and 0 up to 1,500 rpm	
			respectively.	
			Battery Type: Rechargeable Lithium-Ion battery.	
			Chuck Capacity (Min/Max): From	
			approximately 0.8 mm up to 10 mm.	
			Weight (Excluding Battery): About 0.8 kg.	
			Torque Settings: 20 plus 1 adjustable settings.	
39	Vacuum	Reputed	Rated Input Power: Approximately 1,100 W	1
	Cleaner	Company	maximum power consumption.	
		Product	Weight: Around 6 kg total weight.	
		with 3 years	Container Volume (Net): Approximately 10	
		warranty	liters capacity.	
1			Voltage, Electrical: Nominal 230 V AC supply.	
			Container Volume (Gross): Approximately 15	

	T	T		
			liters total volume.	
			Container Volume (Net, Water): About 8 liters	
			capacity for water.	
			Filter Surface Area: Around 2,300 cm <sup>2</sup>	
			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.	
40	Random orbit	Reputed	Rated Input Power: Up to 280 W maximum	1
10	sander	Company	consumption.	1
	Sander	Product	Sanding Pad Diameter: Nominal 125 mm	
			diameter.	
		with 3 years		
		warranty	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.	
41	Planer	Reputed	Rated Input Power: Not exceeding 710 W under	1
		Company	nominal operating conditions.	
		Product	Planing Width: Approximately 82 mm	
		with 3 years	effective width capacity.	
		warranty	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.	
42	Cordless	Danutad	Battery Voltage: Rated at approximately 18.0 V	1
42		Reputed		1
	Vacuum	Company	nominal voltage.	
	Cleaner with	Product	Weight Excluding Battery: Around 1.3 kg	
	Starter kit	with 3 years	without battery attached.	
		warranty	Container Volume: Approximately 0.7 liters net	
			capacity.	
			Filter Surface Area: Roughly 55 cm <sup>2</sup> 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.	
43	Rotary Tool Kit	Reputed	Rated Power Input: Approximately 175 W within	2
		Company	nominal voltage range.	
		Product	Voltage: Operates within 220 to 240 V AC	
		with 3 years	supply.	
		warranty	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 8oz (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 110grams 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 450grams 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		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		"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	Size: Upto 150 mm	4
		Quality		
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	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	Digital Vernier Caliper		Product Type: Digital Calliper Meas.Range:0–150mm / 0–6" Resolution:0.01mm	2
80	Micrometer	Very Good Quality	Resolution:0.001mm/0.00005" Meas.Range:0– 25mm/0–1"	1
81	Steel Rule 300mm	Very Good Quality	Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel	5
82	Steel Rule 600mm	Very Good Quality	Product Type: Steel Rule Scale Size:24"/600mm Material: Stainless Steel	5
83	Engineering Square	Very Good Quality	Size:150×80mm nominal Material: Carbon Steel	2
84	Meter Tape 30m	Very Good Quality	Length: 30 m	1
85	Measuring Tape 3M	Very Good Quality	Length: 3 m	3
86	Measuring Tape 5M	Very Good Quality	Length: 5 m	3
87	Spirit Level	Very Good Quality	Vials:3, Accuracy:0.5mm/m Length:300mm Product Type: Level	3
88	Goggle	Very Good Quality	Goggle – Industrial Standard Make	5
	1	Zumity		

		Quality		
90	Ear Muff	Very Good Quality	Earmuff – Industrial Standard Make	5
91	Mask	Very Good Quality	Mask – Industrial Standard Make	50
92	Fire Extinguisher	Very Good Quality	Fire Extinguisher– Industrial Standard Make	6
93	First Aid Kit	Very Good Quality	First Aid Kit – Industrial Standard Make	2
94	Gloves Pair	Very Good Quality	Gloves – Industrial Standard Make	10
95	Normal Oven	Reputed Company Product with 3 years 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
96	Refrigerator	Reputed Company Product with 3 years warranty	Capacity:183L or more AnnualEnergyConsumption:148kWh/Year or less RefrigeratorFreshFoodCapacity:165L or more Freezer Capacity: min 18L BottleCount:5 or more NoiseLevel:40dB or less Installation Type: Freestanding	1
97	Smart Board	Reputed Company Product with 3 years 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
98	Projector	Reputed Company Product with 3 years warranty	Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1port (Firmware Update/Copy OSD) Approx. Analog Input: D-Sub15pin:1port Digital Input: HDMI:1port	1
			Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx. FNumber:1.44 Nominal Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00–1.35(Digital Zoom Approx.	

		Company Product with 3 years	Printer Type: Laser Nominal Dims(mm):409×398.5×267Approx Weight:9.7KgNominal	
		warranty	Print Speed: Upto30ppm(A4Size) Approx.Warranty:1YearOn-Site	
			Print Resolution:600×600dpi, HQ1200(2400×600dpi) Quality Approx.	
			2Sided-Duplex- Paper Type: Plain, Thin, Recycled Approx. 2Sided-Duplex-	
			Paper Size: A4 Paper Handling: Tray#1- Paper Type: Plain, Thin,	
			Recycled Tray#1- Max Capacity: Upto 250Sheets(80g/m²) Approx.	
			Paper Output: Upto 100Sheets(80g/m²) Face Down Tray; One Sheet Face Up Tray Approx.	
			Copy- Colour /Mono: Yes/Yes Multiple Copies:	
			Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%- 400%(In1%Steps) Approx.	
			CopyResolution:600×600dpi 2Sided-Duplex-	
			Copy Paper Type: Plain, Thin, Recycled 2Sided-Duplex-Copy	
			Paper Size: A4 Scan-Resolution Interpolated: Upto19200×19200dpi Approx.	
			Scan- Resolution Glass: Upto600×2400dpiApprox Connectivity: Hi-SpeedUSB2.0	
			DisplayType:16Chars×2Lines MemoryCapacity:32MBApprox.	
			PowerSource:220-240VAC50/60Hz Power Consumption-Ready: Approx. 60W Power	
			Consumption-Sleep: Approx. 6.6W Power Consumption-Off: Approx. 0.08W NoiseLevel:50dB(A)Approx.	
100	Desktop	Reputed Company	CPU: INTEL CORE I7-12THGEN or Higher RAM:8GB+512GB SSD or more	5
		Product with 3 years	Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR	
101	3D printer	Warranty Very Good	Weight Kg: 1 Approx.	10
	Filament	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	

Sr. No	Equipments	
1	Pegboard	5
2	Acrylic Sheet 3mm, 4ft x 4ft	20
3	Acrylic Sheet 4mm, 4ft x 4ft	20
4	Acrylic Sheet 5mm, 4ft x 4ft	20
5	Foam Sheet 8mm, 4ft x 4ft	2

6	Foam Sheet 10mm, 4ft x 4ft	1
7	Foam Sheet 12mm, 4ft x 4ft	1
8	Foam Sheet 15mm, 4ft x 4ft	1
9	Ply Board 5mm, 2ft x 4ft	12
10	Nylon Rod 10mm, 1m	5
11	Nuts (3mm,4mm,5mm,6mm,8mm,10mm,12mm) Pack of 100	1
12	Bolts (3mm,4mm, 5mm, 6mm,8mm,10mm,12mm) dia 1" Inch Pack of 100	1
13	Screws (3mm,4mm,5mm) Pack of 100	1
14	Washers (3mm,4mm,5mm,6mm,8mm,10mm,12mm) Pack of 100	1
15	Studs (6mm,8mm) 1 Meter	2
16	Nails (1",2",3",1.5", 5") Pack of 100	1
17	Fevicol 2Kg	1
18	2 Way Tape	10
19	PVC Pipe .75",10ft	10
20	PVC Pipe 1",10ft	10
21	PVC Pipe 1.5",10ft	10
22	PVC Pipe 2.0",10ft	10
23	Aluminium channels (L, C, Box, strip length 12ft)	2
24	PCB Drill Bit 0.4mm	10
25	PCB Drill Bit 0.4mm	10
26	PCB Drill Bit 0.onlin	10
27	Drill Bit 4mm	10
28	Drill Bit 5mm	10
29	Drill Bit 6mm	10
30	Arduino UNO R3	5
31	Arduino NANO	5
32	Arduino Nano Arduino Mega	3
33	Raspberry Pi Model 4B, 4GB	3
34	ESP8266 NodeMCU	2
35	ESP32 Development Board	2
36	Beaglebone blue	1
37	Beaglebone Black	1
38	Voltage Regulator Module	2
39	Mini Micro submersible Water Pump	2
40	Piezoelectric Plate	2
41	8*8 LED Matrix Module	2
42	Bluetooth	2
43	7 Segment LED Display	2
43	GSM/GPRS/GPS Module	2
45	Laser Module	2
45	LDR Module	2
47	4×4 Matrix Keypad	2
48	Joy Stick Module	2
49	Active Buzzer (BIG)	2
50	Active Buzzer (BIG) Active Buzzer (SMALL)	2
51	Motor Driver	2
52	Sound Playback Module	2
53	BO Motors	10
54	Vibrating Motor	10
55	Capacitive Touch Switch	2

56	IR Sensors (Obstacle Sensors)	2
57	Triple Axis Magnetometer	2
58	Humidity Sensor	2
59	MQ-2	2
60	MQ-3	2
61	MQ-4	2
62	MQ-5	2
63	MQ-7	2
64	Ultrasonic Sensor Module	2
65	Triple Axis accelerometer	2
66	PIR Motion Detector Module	2
67	Pulse Rate Heart Sensor	2
68	Relay Module	2
69	Soil Moisture Sensor	2
70	Touch Sensor	2
71	Rain Drop Sensor	2
72	Flex Sensor	2
73	Temperature Sensor	2
74	Force Pressure Sensor	2
75	Colour Recognition Sensor	2
76	Water Flow Sensor	2
77	Sound Sensor	2
78	IR Sensor Array for Line Following	2
79	RFID Reader-Tags	2
80	RF Modules Tx & Rx 315 MHz ASK	2
81	Stepper motor with Driver Board	2
82	Servo Motor 360 rotation	10
83	Servo Motor 180 rotation	10
84	Metal Gear Servo Motor (180° Rotation)	10
85	Solder Wire 100grm	10
86	Solder Flux	10
87	830 Points Solderless Breadboard	5
88	400 Points Solderless Breadboard	5
89	Copper Clad Board single side	10
90	Copper clad board double side	10
91	Male to Male Breadboard Jumper	10
92	Female to Female Breadboard Jumper	10
93	Male to Female Breadboard Jumper	10

# **Terms and Conditions**

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

## 1. General Information

All equipment and materials must be delivered in the quantities and specifications as mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order for P.S.R. Engineering College, PSR-AICTE IDEA LAB, Sevalpatti, Sivakasi – 626140, Virudhunagar, Tamilnadu. India. The entire contract shall remain valid for three (3) months from

the date of award.

Quotations submitted by bidders must remain valid for a minimum of 90 days from the final date of submission. Any quotation that does not meet this validity period will be considered non-compliant.

#### 2. Bid Submission Guidelines

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

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

- Detailed Profile of the Bidder, highlighting experience and key competencies.
- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.
- Copy of submitted GST return (at least up to November 2024).
- Copy of valid PAN Card.
- Chartered Accountant's Certificate for turnover for FY 2021–22, 2022–23, and 2023–24.
- CA-certified and audited Balance Sheets and Financial Statements (Form 3CB/3CA) for the last three financial years.
- Copies of Work Completion or Experience Certificates of similar completed works.
- Valid Shop Establishment License or Factory License.
- Genuine Manufacturer Authorization Form (MAF), which will be subject to verification with the respective OEM.
- Bidder should provide an Escalation Matrix for service and after sales support.
- Valid EPF, ESIC, and Professional Tax Registration Certificates (where applicable).
- Income Tax Return Acknowledgements for FY 2021–22, 2022–23, and 2023–24.
- Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- Complete, signed, and stamped tender document including amendments and deviation sheets, if any (to be uploaded online only).
- Declaration of agreed specifications on company letterhead, duly signed and stamped.
- Any other documents in support of technical eligibility.

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

#### 3. Technical Documentation and Compliance

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

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

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

## 4. Eligibility and Qualification Criteria

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

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

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

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

#### 5. Financial Criteria

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

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

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

#### 6. Evaluation and Award of Contract

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

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

## 7. Warranty and After-Sales Service

All equipment must carry a minimum onsite warranty of at least **three years** from the date of successful installation and commissioning. During this warranty period, the bidder shall repair or replace any defective items at no additional cost to the purchaser. All associated transportation, testing, and labor costs shall be borne by the bidder.

In case of any service delay or failure to resolve issues during the warranty period, the purchaser reserves the right to invoke penalties or reject future business from the vendor.

## 8. Payment Terms

Payment shall be released only after the successful supply, installation, and commissioning of the equipment. Final inspection and acceptance will be carried out by the purchaser's technical committee.

No payment shall be made for equipment that is received in damaged condition, is non-functional, or fails to meet the required specifications. The bidder must submit all necessary documentation (delivery challans, installation report, warranty documents, training certificate, invoice, etc.) to process payment.

#### 9. Other Conditions

No bidder shall be given preference based on category, class, or affiliation. The procurement may be extended to additional phases (e.g., Phase II) depending on availability of funds and institutional requirements.

Delayed delivery or installation may result in cancellation of order or imposition of penalties, as deemed fit by the purchaser. The scope of the supply and service must be entirely as per the BoQ and technical specifications. Bids with partial compliance or deviations shall not be entertained.

#### 10. Submission Deadline and Contact Details

All quotations must be submitted by 10.09.2025 before 11.59 pm to the email ID aicteidealab@psr.edu.in or sent in hard copy to:

PSR – AICTE IDEA LAB P.S.R. Engineering College, Sevalpatti, Sivakasi – 626140, Virudhunagar, Tamilnadu. India

Contact No.: +91 9976533459, +91 9841310110

Email: aicteidealab@psr.edu.in