

Approved by AICTE and Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal

(Formerly known as West Bengal University of Technology)

Ref. No:

Date:

### TENDER NOTICE

Tender Document for AICTE IDEA Lab Equipment Procurement (2025)

Netaji Subhash Engineering College

Techno City, Garia, Kolkata 700152

Tenders are invited from reputed and experienced suppliers (manufacturers or authorised distributors) for the supply, installation, and commissioning of equipment, tools, and machinery to establish an AICTE IDEA Lab at the institute. This laboratory will be developed in accordance with AICTE guidelines to foster innovation, design thinking, and prototyping skills among students and faculty.

Tender Ref. No: NSEC/AICTE/IDEA Lab/2025/01

Date of Issue: 03.09.2025

Last Date & Time for Bid Submission: 16.09.2025 up to 5:00 PM.

**Submission Mode:** Bidders should submit their online bids as digitally signed PDF via official email and provide the required information through the Google Form.

Email: idealab@nsec.ac.in

Google Form: https://forms.gle/2EEsmYCaT6fUzeze9

**Scope:** Supply and install the equipment and items listed in the *Equipment List* (with specifications and quantities detailed in the next section). Installation includes any required onsite assembly, testing, and demonstration of functional operation of all equipment.

Comprehensive training for faculty/staff on key equipment operation and safety is also expected as part of commissioning.

Earnest Money Deposit (EMD): Not Applicable (or as specified separately, if any).

The tender document includes the detailed **Equipment List with Specifications**, Terms and Conditions, Eligibility and Qualification Criteria, Bid Submission Instructions, Warranty requirements, Evaluation Criteria, and Contact Information for queries. Bidders are advised to read all sections carefully and comply with the conditions outlined. All items in the Bill of Quantities must be quoted; partial or item-wise quotations will not be accepted. The purchaser reserves the right to cancel or modify any part of the tender for any reason.

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### **Equipment List and Specifications**

The following tables list the required equipment, tools, and consumables along with preferred brands/quality, minimum technical specifications, and quantity to be procured for the IDEA Lab. Bidders must ensure that the products offered meet or exceed the given specifications. All equipment must be of high quality, from established brands, and include at least the minimum warranty period specified (refer to Warranty clauses). Equivalent or superior models from reputed brands will be accepted if the exact preferred brand/model is not available, provided they meet the specifications.

Sr. No	Equipment	Preferred brands, if any	Specifications	Qty
1	Single Nozzle 3D printer	Bambu Lab H2D-Combo 2 40W 3D Printer / CreatBot F430 Or Branded Company Product with at least three years of product warranty	Filament Diameter: 1.75mm (supports PLA, PETG, ASA,	1
2	PCB Milling Machine	LPKF, Bantam Tools, /TL Pathak Or Branded Company Product with at least three years	Cuttable Materials: Modelling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper clad, etc Table Size: 225 (X) × 150 (Y) mm or more Drive System: Stepping Motor (X, Y, Z Axis) Operating Speed: 800 mm/min Software Resolution: 0.01 mm/step Position accuracy: 0.01 to 0.02 mm	1

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	1	of product	Max Travel Speed (mm/sec)-58 (2.28 ") Drilling (mm)-0.2 -	
		warranty	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	
			Working Area: Min 600 x 900 mm or above Laser Type:	
		TL Pathak / Trilok	CO2 DC Glass Laser Tube/RF Metal Laser Tube	
		or	Laser Power: 80/100W	
		Branded Company	Wave Length: Up to 10.6 Micrometer Cutting Speed: 30000	
3	CO2 Laser Cutting	Product with at	mm/min or more Engraving Speed: 64000 mm/min or more	1
J	Machine	least three years	XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water	
		of product	Cooling	
		warranty	Supply Voltage: 230V/415 V Accessories:	
			CO2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre	
		D 1 10	Acrylic sheet: 2 Nos	
		Roland Or	Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4	
w	Vinyl Printer	Branded Company	lbs or less	1
4		Product with at	Max cut size using machine mat: 11.5 inch x	1
		least two years of	23.5 inch or more	
		Warranty	Cut speed: up to 14.1 ips Technology: Stereo camera structured light with focusable	
			cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU	
			RAM: 4 GB	
			Projector: DLP MEMS mirror or equivalent Camera Sensor:	
			Sony 13 MP or better	
			Scan Speed: 4 seconds or more, Working	
			Distance: Effective Working Distance: 160mm-1400mm	
		Creality / Einscan	the state of the s	
		Or	Scan Speed:	
		Branded Company	980,000points/s, up to 14FPS	
5	3D Scanner	Product with at	Align Modes: Feature Alignment, Hybrid Alignment,	1
-		least three years	Texture Alignment, Global Markers	1
		of product	Safety: Eye-safe Texture Scan: Yes	
		warranty	Interface: USB2.0 or above Outdoor Scanning: Yes	
			Output Formats: OBJ; STL; PLY; P3; 3MF	
	4.			
		2	Scanning Environment: Indoor and outdoor (shaded)	
			Texture / Colour Scanning: Yes	
	· · ·	5 1	Minimum Capturable Feature Size: 0.2 mm or less	
			Scanner Weight: 500 grams or less	
			Scanner Dimensions: up to 240 × 60 × 60 mm Compatible	
			OS: Any OS supporting a modern web browser	4
		TL Pathak Or	Centre Width: Up to 400 mm or better Height of Centres: Up	
	Lathe Machine	Branded Company	to 88 mm	1
6	cum milling	Product with at	Maximum Workpiece Diameter: Up to 100 mm	1
		least three years	Machine Base: Cross-ribbed surface, high-quality cast iron	
		loust times jours	with ground prismatic guide, capable of fitting	

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		of product warranty	milling/drilling attachment. Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8 Motor Rating: 550W or better, induction motor, single phase 230V	
7	CNC Router	K-Tech CNC Or Branded Company Product with at least three years of product warranty	Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more Additional Accessories: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod) Desktop: 1 No. Working Area: Min 1300 x 2500 mm Z Axis Working Area: 200 or above Resolution: ±0.03/300mm or more CNC Spindle: 3KW or more Lathe Structure: Welding Steel Structure or equivalent XYZ Structure: Rack Pinion, Ball Screw Linear Rails Max Spindle Speed: Min 18000RPM Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ±0.03 Working Mode: Stepper Motor/Servo Motor Dust Collector: To be included by Vendor Voltage: AC 220V/415V, 50/60 Hz, 3 Phase	1
8	Belt and Disc Sanding Machine	JMTC or Branded Company Product with at least three years of product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Titing Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm	1
9	Scroll Saw	Makita or Branded Company Product with at least three years of product warranty	Power input: 50 watts 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	TL Pathak / Branded Company Product with at least three years of product warranty	Motor: 230V~50Hz, 550W, S2:15min or above Max. Disc Diameter: min 75 mm Max. Cutting Length: 450 mm or more Spindle Speed: 5 speeds, such as 1600 / 2600 / 3200 RPM etc Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850 m	1

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11	Bench Top Drill Machine	BOSCH Or Branded Company Product with at least three to five years of Warranty	Continuous rating input: Max. 250 W Capacity: Steel: Min 13 mm (1/2") Wood: Min 24 mm (15/16") No Load Speed (RPM): 570, 890, 1,300, 1,900, 2,670(50 Hz), 690, 1,070, 1,560, 2,280, 3,200(60 Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75 m (5.7 ft) Additional Accessories: Bench Vice: 1 No., Drill Bit Set 10 Pcs: 1 No	1
12	Portable Welding Machine	Espex Instruments Or Branded Company Product with at least three to five years of Warranty	Welding Current (at 40°C, 10 min cycle): 120A @ 100%, 150A @ 60%, 200A @ 35% Supply Voltage: 240V +10%, -15%, 1 Phase, 50/60 Hz Open Circuit Voltage: 55V DC ±5V Welding Current Range: 15–200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: up to 320×120×195 mm Weight (Approx.): 4.3 kg or less	1
13	Computerised Sewing Machine	Usha Or Branded Company Product with at least three years of product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerised 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 LCD Screen Display: Yes Bed Type Free Arm/Flatbed convertible Bobbin Type Drop & Sew Bobbin System	1
14	Filament Dehydrator	SOVOL Or Branded Company Product with at least three years of product warranty	Operating Temperature Range: Min 45°C–70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: up to 360° circulation Moving Speed: 300 mm/s or more Power Rating: 160 W Shipping Weight: 2.5 kg	1
15	Reflow Oven	LG Or a Branded Company Product with at least three years of product warranty	No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C	1
16	Digital multimeter	TEKTRONICS or Branded Company Product with at least three years of product warranty	Overall Dimensions: min 350×450 mm Machine Weight: up to 25 kg Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: ±0.5% or ±3 digits, whichever is higher AC Voltage Accuracy: Within ±1% + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: ±1.5% + 3 digits (approximate)	5

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	20		AC Current Accuracy: ±1.5% + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits Operating Temperature Range: From 0°C up to approximately 40°C Storage Temperature Range: Between -30°C and 60°C Overall Dimensions (H×W×L): Approximately 183×91×49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	
17	MSO 100 MHz	RIGOL Or Branded Company Product with at least three years of product warranty	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 × H × D): 380× 200× 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to IEC 61010-1 and IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	1
18	Digital oscilloscope	Tektronics Or Branded Company Product with at least three years of product warranty	Number of Channels: Up to 2 independent analog inputs Memory Record Length: Up to 10 Mpts for extended waveform capture Bandwidth Limiting: Selectable 20 MHz bandwidth filter Sampling Rate: Maximum of 1 GSa/s real-time equivalent per channel Rise Time: ≤ 3.5 ns depending on probe and settings Display: 7" TFT colour 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 × 200 × 120 mm or above	1

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	5		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 analysing I2C, SPI,	
			UART, CAN, and LIN communication protocols	
			Standard Accessories: Includes mains power cable, user	
			manual (digital format), and one GTL-16E probe per input	
			channel	
			Output Configuration: 4-channel design with independent	
			electrical isolation across all outputs	
14			Channel Output Ranges:	
			CH1 & CH2: Adjustable output voltage from 0 to 32V with a	
			current delivery capacity up to 3A	
			CH3: Variable range 0 to 5V supporting up to 1A	
			CH4: Output adjustable from 0 to 15V with a load current of	
			up to 1A	
			Constant Voltage Operating Mode Line Regulation: ≤ 0.01%	
			+ 3 mV	
1			(approximate value within rated voltage range)	
			Load Regulation: ≤ 0.01% + 3 mV (across rated load	-
			variation)	
			Ripple & Noise: ≤ 1 mVrms across full bandwidth	
	#		Constant Current Operating Mode Line Regulation: ≤ 0.2% +	
			3 mA	
			Load Regulation: ≤ 0.2% + 3 mA Ripple Current: ≦ 3	
		OWON Or	mArms (typical)	
		Branded Company	See Made to control of the American Section (Section 1)	
19	Donger summly	Product with at	Safety & Operational Features	
19	Power supply	least three years	Output Control: Independent output ON/OFF switching	1
		of product	functionality is required	
		warranty	Voltage Resolution: Approximately 100 mV (*1)	
			Current Resolution: Approximately 10 mA (*1)	
			Display Parameters	
			Display Units: Four separate displays required for individual	
		-	channel status visualisation	
			Display Type: 4.3-inch LCD (colour or monochrome as	
			applicable)	
	-			
			Functional Features	
	. *:		Tracking Operation: Supported (required for synchronising	
	1		output behaviour)	
	25		Auto Series/Parallel: Supported (automatic internal	
			reconfiguration required)	
1			Power Requirements	
			Supply Input: 230V AC ±10%, 50 Hz	
			Mechanical Specifications	
			Maximum Dimensions (W × H × D): Within 200 mm × 100	
	· ·		mm × 200 mm	1000
		b		

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Γ		F		Maximum Weight: 10 kg or less	
	20	Function Generator	SGDA Or Branded Company Product with at least three years of product warranty	Output Function: The equipment shall Provide output waveforms, including sine, square, triangle, and TTL signals as required. Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz.For a triangle waveform: approximately 0.1 Hz up to 3 MHz.For a triangle waveform: approximately 0.1 Hz up to 1 MHz. Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz. Frequency Stability: The frequency stability shall be within ±20 ppm (parts per million). Frequency Accuracy: The frequency accuracy shall be maintained within ±20 ppm. Frequency Ageing: Frequency ageing shall not exceed ±5 ppm per annum. Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load. Amplitude Accuracy: Amplitude accuracy shall be within ±20% at the maximum amplitude setting. Output Impedance: Nominal output impedance shall be 50 Ω 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 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 2.5 kg.	1
	21	Bench Top Multimeter	OWON Or Branded Company Product with at least three years of product warranty	AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm (0.5\%-5\%  \text{rdg} + \text{digits})$ Depending on frequency and range. Input impedance: $10  \text{M}\Omega$ . DC Current: Range: $500  \mu\text{A}$ to $20  \text{A}$ across 6 ranges. Accuracy: $\pm (0.02\%-0.3\%  \text{rdg} + 2  \text{digits})$ depending on range. AC Current (True RMS): Range: $500  \mu\text{A}$ to $20  \text{A}$ across 6 ranges. Accuracy: $\pm (0.5\%-1\%  \text{rdg} + \text{digits})$ depending on frequency. Resistance: Range: $500  \Omega$ to $20  \text{M}\Omega$ across 6 ranges. Accuracy: $\pm (0.1\%-0.3\%  \text{rdg} + \text{digits})$ depending on range. Diode Test: Max forward voltage $1.5  \text{V}$ , open voltage $2.8  \text{V}$ . Capacitance: Range: $5  \text{nF}$ to $50  \mu\text{F}$ . Accuracy:	1

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22	Non-Contact Voltage Tester	Branded Company Product with at least three years of product warranty	±(2% rdg + 4 digits). Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold <5 Ω. Display: Dual 7-segment LED, 0.4" and 0.5". Power Source: AC 100/120/230 V ±10%, 50/60 Hz. Dimensions & Weight: Approximately 251 × 91 × 291 mm; 2.6 kg. Function: Non-contact AC voltage detection tester. Voltage Detection Range: Approximately 90 V to 1000 V AC. Detection Method: Capacitive, with visual and audible indication. Sensitivity: Adjustable sensitivity for different voltage ranges. Response Time: Instantaneous detection within standard operating conditions. Indicators: Bright LED indicators and an audible beep for voltage presence. Operating Environment: Suitable for use in ambient temperatures from 0 °C to 40 °C. Power Source: Powered by standard batteries (typically 2 × AAA or equivalent). Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards.	5
	6	6	Dimensions: Compact, handheld design suitable for field use (approx. 150 mm × 30 mm × 25 mm).  Weight: Lightweight, approximately 150 g for ease of portability.	
23	LCR Meter	Scientific or Branded Company Product with at least three years of product warranty	displays.  Basic Accuracy: Within ±0.2% under standard conditions.  Test Frequencies: Six or eight selectable frequencies, depending on model variant.  Measurement Combinations: Up to 15 different measurement combinations available.  Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ±1 V.  Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).  Auto LCR Mode: Automatic identification and measurement of component types within supported ranges.  Data Hold: Feature available to hold measured data on display.  Interface: USB virtual COM port provided for remote	1
	4	Tektronics Or	communication capabilities.  Software: Datalogging software available for data capture and analysis.  Power Rating: Approximately 60 W maximum output power.	
24	Soldering Station	Branded Company Product with at least three years	Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within ±2 °C under normal operating conditions.	3

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		of product warranty	Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance.  Display: Digital or analog temperature display (depending on variant) for precise temperature control.  Temperature Control: Adjustable via knob or digital interface with fine resolution.  Power Supply: AC 220 V ±10%, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards.  Dimensions: Compact design with 100 mm × 100 mm × 90 mm (W × H × D) or above. Weight: Approximately 1.5 kg for ease of portability and bench use.	
25	Digital Microscope	Branded Company Product with at least three years of product warranty	Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080, 640*480 Pixel: 30W Focal length: 3-40mm manual adjustment. Support Android 4.2 or above/Windows/Mac systems	1
26	Soldering Rework Station	VAR TECH or Branded Company Product with at least three years of product warranty	Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ±2 °C.  Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included.  Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits.  DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current plus 5 V USB output for auxiliary power.  Control: Microcontroller-based system with LED indicators for temperature and mode selection.  Safety: ESD-safe design compliant with applicable standards. Build: Metallic body with powder coating, approximate dimensions 280 mm × 180 mm  × 140 mm (W × H × D).  Weight: Approximately 3.5 kg.  Power Source: AC 220 V ±10%, 50/60 Hz. Accessories: Includes soldering iron with needle bit, hot air blower with 3 nozzles, iron stand with sponge, hot air cradle, patch cord, and power cord.  Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C	1
27	Hand Drill Machine	BOSCH Or Branded Company Product with at least three years	Rated Input Power: Approximately 500 W or above, maximum power consumption. Bit Holder: Standard 1/2"-20 UNF thread type.	2

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		of product warranty	No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm.  Power Output: Approximately 300 W continuous output power.	
			Weight: Approximately 1.7 kg total device weight. Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4 Nm maximum torque	
	9		output. Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread. Chuck Capacity (Min/Max): Approximately	
			1.5 mm minimum to 13 mm maximum.	
28	Cordless drill	BOSCH Or Branded Company Product with at At least three years of product warranty	Torque (soft/hard/max.): Min 21/50/- Nm No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm  Weight incl. battery: 1.3 kg or less. Max. impact rate: 27,000 bpm  Battery type: Lithium-Ion or equivalent Chuck capacity, min./max.: 1.5 / 13 mm Weight excl. battery: 0.99 kg  Torque settings: 20+2 or better	2
29	Jig Saw	BOSCH Or Branded Company Product with at least three years of product warranty	Rated Input Power: Approximately 500 W maximum power consumption.  Voltage, Electrical: Nominal 230 V AC supply.  Saw Stroke Length: Approximately 20 mm stroke length.  Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute).  Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately -45° to 45° range.	1
30	Miter Saw	BOSCH Or Branded Company Product with at least three years of 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 45° left and 0° right.  Saw Blade Bore Diameter: Approximately 25.4 mm standard bore.  Cutting Capacity at 0°: Approximately 90 mm × 130 mm maximum cross-section.  Cutting Capacity at 45° Mitre: Approximately 90 mm × 91 mm maximum cross-section.  Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-section. Tool Dimensions (W×L×H): Approximately 477 mm × 559 mm × 567 mm.  No-Load Speed: Fixed at approximately 5,000 rpm.  Weight: Approximately 11.1 kg.	1
31	Hot air gun	BOSCH Or	Rated Input Power: Approximately 1,800 W maximum power	2
		Branded Company	consumption.	

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		Product with at least three years of product warranty	Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg. Working Temperature Range: Adjustable within approximately 60 °C to 550 °C. Heat-Up Time: Approximately 1 second to reach target temperature. Airflow: Adjustable within approximately 350 to 550 litres per minute. Airflow Control: Three selectable airflow settings. Rated input power: Max 1800 W Incline setting: 45 ° L / 0 °	
32	Table saw	BOSCH Or Branded Company Product with at least three years of product warranty	R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm Weight 24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting height 45°: 55 mm	1
33	Bench grinder	BOSCH Or Branded Company Product with at least three years of product warranty	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more, Grinding wheel widths: 20 mm or more, Noload speed: up to 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less	1
34	Angle Grinder	BOSCH Or Branded Company Product with at least three years of product warranty	Rated Input Power: Approximately 670 W maximum power consumption.  No-Load Speed: Approximately 11,000 rpm.  Disc Diameter: Approximately 100 mm nominal diameter.  Grinding Spindle Thread: Standard M10 thread.  Weight: Approximately 1.5 kg.  Switch: Lockable switch for operational safety.	1
35	Straight Grinder	BOSCH Or Branded Company Product with at least three years of product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, Electrical: Nominal 230 V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Up to 25 mm. Maximum Collet Diameter: Up to 8 mm. Switch: Lockable switch for enhanced safety.	1
36	Circular Saw	BOSCH Or Branded Company Product with at least three years of product warranty	Rated Input Power: Approximately 1400 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	BOSCH or Branded Company Product with at least three years of product warranty	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ±3 dB	1

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38	Cordless Screw Driver	BOSCH Professional or Branded Company Product with at least three years of product warranty	Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 1500 rpm, respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable settings.	1
39	Vacuum Cleaner	BOSCH or Branded Company Product with at least three years of product warranty	Rated Input Power: Approximately 1,100 W maximum power consumption.  Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 litres capacity.  Voltage, Electrical: Nominal 230 V AC supply. Container Volume (Gross): Approximately 15 litres total volume.  Container Volume (Net, Water): About 8 litres of capacity for water.  Filter Surface Area: Around 2,300 cm² effective filtration area.  Airflow Rate (Turbine): Approximately 53 litres per second. Vacuum Pressure (Turbine): Up to 270 mbar vacuum pressure.  Number of Wheels: Four wheels for mobility.	1
40	Random orbit sander	BOSCH or Branded Company Product with at least three years of 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 7500 to 12000 rpm range. Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm). Eccentricity: Approximately 1.3 mm.	1
41	Planer	BOSCH or Branded Company Product with at least three years of product warranty	Rated Input Power: Not exceeding 710 W under nominal operating conditions. Planing Width: Approximately 82 mm effective width capacity. Planing Depth: Within the range of up to 2.6 mm maximum depth per pass. Weight: Circa 2.8 kg total unit mass. Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm. No-Load Speed: Operating speed is typically around 18,000 rpm.	1
42	Cordless Vacuum Cleaner with Starter Kit	BOSCH or Branded Company Product with at least three years of 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 litres net capacity. Filter Surface Area: Roughly 55 cm² filtration surface. Maximum Airflow Rate (Turbine): Up to 10 litres per second. Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions.	1

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			Operating Time (18 V Battery): Typically 7 minutes per Ah of battery capacity.	-
43	Rotary Tool Kit	BOSCH or Branded Company Product with at least three years of product warranty	Rated Power Input: Approximately 175 W within the nominal voltage range.  Voltage: Operates within 220 to 240 V AC supply.  Weight: Around 0.66 kg total mass.  Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width.  Depth: Roughly 4.3 cm depth dimension.  No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm.  Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required.  Accessory Quick Change System: Equipped with multi-chuck for rapid accessory interchange.  Vibration Level: Approximately 18 m/s² measured vibration	2
44	Rubber Grip Hacksaw	BOSCH or Very Good Quality	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth.  Blade Length: Around 254 mm (10 inches) standard length.	2
45	Hacksaw Mini	Very Good Quality	Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Very Good Quality	Weight: Approximately 8 oz (220 grams) nominal weight.  Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W ×  H) overall size	2
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight.  Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2
48	Rubber mallet	Very Good Quality	Weight: Approximately 450 grams nominal weight.  Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	2
49	Ring spanner set 12Pcs	Very Good Quality	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1
50	Open end spanner set 12Pcs	Very Good Quality	Weight: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
51	Combination Spanner set 8Pcs	Very Good Quality	Weight: Approx649g nom.wt. Qty: 8pcs/set.	1
52	Allen key set 10pcs	Very Good Quality	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
53	Allen key set 12pcs	Very Good Quality	Qty:12pcs/set	2
54	Combination plier	Very Good Quality	Weight: Approx422g nom.wt. Size: 8"/200mm nominal	2
55	Long nose plier	Very Good Quality	Weight: Approx399g nom.wt. Size:180mm/6" 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		2
	Adjustable spanner	Very Good Quality	Size: Up to 150 mm	2

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60				
61	Pipe wrench		Size: Max 300 mm	2
62	C – clamp	Very Good Quality	Size: Up to 75 mm	4
63	C-clamp	Very Good Quality	Size: Up to 150 mm	4
64	Snap-off Knife	Very Good Quality	Size:18 mmm	2
65	16pcs screwdriver 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		2
68	PVC Pipe cutter	Very Good Quality		2
69	Hot Glue Gun	Very Good Quality	Power: 40 W	4
70	Small file set	Very Good Quality	Length: 160 mm	2
71	Big file set	Very Good Quality	Length: 200 mm	2
72	Chisel set	Very Good Quality	Weight: 340 gm	2
73	Punch set	Very Good Quality	Weight: 390 gm	2
74	Bench wise	Very Good Quality	Base Type: Fixed Size:2–3½" nominal JawWidth:60mm	2
75	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Very Good Quality	WAF(mm):1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7, 7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13 Wt:~1.3Kg nom.wt Sz(mm):205×115×55 overall	2
77	Baby wise	Very Good Quality	Vice Type: Bench Size:2" nominal JawWidth:50mm	2
78	Ratchet Set	Very Good Quality	Vice Type: Bench Sz:2" nominal; Jaw:50mm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Calliper	Very Good Quality	Product Type: Digital Calliper Meas.Range:0-150mm / 0-6" Resolution:0.01mm	2
81	Micrometer	Very Good Quality	Resolution:0.001mm/0.00005" Meas.Range:0-25mm/0-1"	1
82	Steel Rule 300mm	Very Good Quality	Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel	5
83	Steel Rule 600mm	Very Good Quality	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5
84	Engineering Square	Very Good Quality	Size:150×80mm nominal Material: Carbon Steel	2
85	Meter Tape 30m			1
86	Measuring Tape 3M	Very Good Quality		3
87	Measuring Tape 5M	Very Good Quality		3
88	Spirit Level	Very Good Quality	Vials:3	3
89	Goggle	Very Good Quality		5
90	Apron	Very Good Quality		5
91	Ear Muff	Very Good Quality	Earmuff – Industrial Standard Make	5
92	Mask	Very Good Quality		50
93	Fire Extinguisher	Very Good Quality		6

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94	First Aid Kit		First Aid Kit – Industrial Standard Make	2
95	Gloves Pair	Very Good Quality	Gloves – Industrial Standard Make	10
	***	LG or Branded	Oven Cap: 20L or more Type: Solo	
96		Company	Door: Side Swing Child Lock: Yes	
		Product with at	Completion Beeper: Yes Power Levels: up to 5 Control:	1
	Normal Oven	least three years	Membrane Type Cavity Mat: Anti-Bacterial	1
		of product	Dims(mm):455×252×320	
		warranty	PowerOut:700W or less	
		LG or Branded	Capacity:183L or more	
		Company	AnnualEnergyConsumption:148kWh/Year or less	
		Product with at	RefrigeratorFreshFoodCapacity:165L or more Freezer	
97	Refrigerator	least three years	Capacity: min 18L	1
		of product	BottleCount:5 or more NoiseLevel:40dB or less	
		warranty	Installation Type: Freestanding	
$\rightarrow$		waitanty	Display Size: Approx 75Inch (190 cm) Up to Resolution:	
			4KUHDorHigher	
			Brightness: Min 350 nits; Typ400nitsApprox Contrast Ratio:	
		SAMSUNG/LG	Typ 1200: 1Upto	
		and the control of the state of	Response Time: Approx 8ms	
		or Branded		
		Company	Viewing Angle: Approx178DegreesWide	1
98	Smart Board	Product with at	WorkingFrequency:1.5GHzNominal RAM:4GBOrMore	1
		least three years	InternalStorage:32GBMin OS: Android Based	
1		of product	HDMI: 3Ports USB: 2Ports	
		warranty	Sensing Type: Infrared Touch Frame	
1		1.00	Surface Protection: 4mm Toughened Glass Or Equivalent	
	51		Infrared Touch Points: 20Approx Voltage: DC+5V±5% Range	
			OPS: Optional	
			Projection Tech: RGB liquid crystal shutter projection	
			(3LCD) Up to	
		EPSON or	Connectivity: USB Type B: 1port	
		Branded Company	(FirmwareUpdate/Copy OSD) Approx AnalogInput:D-	
	Projector	Product with at	Sub15pin:1port Digital Input: HDMI:1port	1
99		least three years	Projection Lens: Type: No Optical Zoom/Focus	
		of product	(Manual)Nominal FocalLength:16.70mm Approx	
		warranty	FNumber:1.44 Nominal	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Zoom:1.44-1.95 Ratio (Wide to Tele)	
			ThrowRatioRange:1.00–1.35(Digital Zoom Approx	
			Functions: Print, Scan, Copy Printer Type: Laser Nominal	
			Dims(mm):409×398.5×267Approx Weight:9.7KgNominal	
			PrintSpeed:Upto30ppm(A4Size)Approx Warranty:1YearOn-	
			Site	
		UD or Drandad	PrintResolution:600×600dpi,HQ1200(2400× 600dpi) Quality	
		HP or Branded		
		Company	Approx	
100	Printer	Product with at	2Sided-Duplex-	1
0.070s#60		least three years	PaperType: Plain, Thin, Recycled Approx 2Sided-Duplex-	1
		of product	PaperSize: A4	
		warranty	PaperHandling: T ray#1-	
		1	PaperType: Plain, Thin, Recycled Tray#1-	
			MaxCapacity:Upto250Sheets(80g/m²)Approx	
			PaperOutput:Upto100Sheets(80g/m²)FaceDo wnTray;OneSheetFaceUpTrayApprox	

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			Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%- 400%(In1%Steps)Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType: Plain, Thin, Recycled 2Sided-Duplex- CopyPaperSize: A4 Scan- ResolutionInterpolated: Up to 19200×19200 dpi Approx Scan- ResolutionGlass:Upto600×2400dpiApprox Connectivity:Hi- SpeedUSB2.0 DisplayType:16Chars×2Lines MemoryCapacity:32MBApprox PowerSource:220-240VAC50/60Hz PowerConsumption- Ready:Approx60W PowerConsumption-Sleep:Approx6.6W PowerConsumption-Off:Approx0.08W NoiseLevel:50dB(A)Approx	
101	Desktop	HP or Branded Company Product with at least three years product warranty	CPU: INTEL CORE I7-13THGEN or Higher RAM:16GB+1TB SSD or more Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR	5
102	3D Printer Filament	Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal Filament Length: 330m Approx Dim Accuracy: +/-0.1mmApprox Roundness Accuracy: +/-0.5mmApprox SpoolInnerDia:55mmNominal SpoolOuterDia:200mmApprox SpoolWeight:300gNominal SpoolWidth: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	er ign i ke	20
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality	No. 2	2
107	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality	7	1
108	Foam Sheet 12mm, 4ft x 4ft	Very Good Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1
110	Ply Board 5mm, 2ft x 4ft	Very Good Quality		12
111	Nylon Rod 10mm, 1m	Very Good Quality		5
112	Nuts (3mm,4mm,5mm,	Very Good Quality		1

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114	(3mm,4mm,5mm) Pack of 100	Very Good Quality		1
115	Washers (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of	Very Good Quality		1
116	Studs (6mm,8mm) 1 Meter	Very Good Quality		2
117	Nails (1",2",3",1.5",5") Pack of 100	Very Good Quality		1
118	Fevicol 2Kg	Very Good Quality		1
119	2 Way Tape	Very Good Quality		10
120	PVC Pipe .75",10ft	Very Good Quality		10
121	PVC Pipe 1",10ft	Very Good Quality		10
122	PVC Pipe 1.5",10ft			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
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	V	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
				2

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	Development Board	4		
137	Beaglebone blu	Very Good Quality		1
138	Beaglebone Black	Very Good Quality		1
139	Voltage Regulator Module	Very Good Quality		2
140	Mini Micro submersible Water Pump	Very Good Quality		2
141	Piezoelectric Plate	Very Good Quality		2
142	8*8 LED Matrix Module	Very Good Quality		2
143	Bluetooth	Very Good Quality		2
144	7 Segment LED Display	Very Good Quality		2
145	GSM/GPRS/GPS Module	Very Good Quality		2
146	Laser Module	Very Good Quality		2
147	LDR Module	Very Good Quality		2
148	4×4 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	E	2
154	BO Motors	Very Good Quality		10
155	Vibrating Motor	Very Good Quality		10
156	Capacitive Touch Switch	Very Good Quality	,	2
157	IR Sensors (Obstacle Sensors)	Very Good Quality		2
158	Triple Axis Magnetometer	Very Good Quality		2
159	Humidity Sensor	Very Good Quality		2
160	MQ-2	Very Good Quality		2
161	MQ-3	Very Good Quality		2
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	- N. K.	2
167	PIR Motion	Very Good Quality	Y Y	2

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	Detector Module			
168	Pulse Rate Heart Sensor	Very Good Quality		2
169	Relay Module	Very Good Quality		2
170	Soil Moisture Sensor	Very Good Quality		2
171	Touch Sensor	Very Good Quality		2
172	Rain Drop Sensor	Very Good Quality		2
173	Flex Sensor	Very Good Quality		2
174	Temperature Sensor	Very Good Quality		2
175	Force Pressure Sensor	Very Good Quality		2
176	Colour Recognition Sensor	Very Good Quality		2
177	Water Flow Sensor	Very Good Quality		2
178	Sound Sensor	Very Good Quality		2
179	IR Sensor Array for Line Following	Very Good Quality		2
180	RFID Reader-Tags	Very Good Quality	*	2
181	RF Modules Tx& Rx 315 MHz ASK	Very Good Quality		2
182	Stepper motor with Driver Board	Very Good Quality	7. V.	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	3 y 4	10
186	Solder Wire 100grm	Very Good Quality		10
187	Solder Flux	Very Good Quality	<b>₩</b>	10
188	830 Points Solderless Breadboard	Very Good Quality		5
189	400 Points Solderless Breadboard	Very Good Quality		5
190	Copper Clad Board single side	Very Good Quality		10
191	Copper clad board double side	Very Good Quality	П	10
192	Male to Male Breadboard Jumper	Very Good Quality		10
193	Female to Female Breadboard Jumper	Very Good Quality	, we	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 **Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700152**. 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 authorised 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 a 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.

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- Genuine Manufacturer Authorisation Form (MAF), which will be subject to verification with the respective OEM.
- The bidder should provide an Escalation Matrix for service and after-sales support.
- Valid EPF, ESIC, and Professional Tax Registration Certificates (where applicable).
- Income Tax Return Acknowledgements for FY 2021–22, 2022–23, and 2023–24.
- Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- Complete, signed, and stamped tender document including amendments and deviation sheets, if any (to be uploaded online only).
- Declaration of agreed specifications on company letterhead, duly signed and stamped.
- Any other documents in support of technical eligibility.

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

### 3. Technical Documentation and Compliance

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

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

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

### 4. Eligibility and Qualification Criteria

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

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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 authorised 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 authorise 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 finalisation 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.

ENERGY CO. 152 CO.

PRINCIPAL TOO 157

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