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Approved by AICTE, New Delhi – Affiliated to JNTUA, Ananthapuramu Accredited by NAAC with 'A' Grade and NBA (CSE&ECE)
Rami Reddy Nagar, Karakambadi road, Tirupati-517507

Ref: S R E C / Admn/IDEALAB-Tender/2025-26/0002 Date: 23/08/2025

Tender Document of SREC-AICTE IDEA Lab

1. Instructions to Bidders

- ❖ Bids shall be submitted in English only
- The tender shall be conducted under a Two-Bid System: Technical Bid and Financial Bid.
- ❖ Bidders must be registered with valid PAN, GST and must have at least 3 years of experience in supplying lab equipment.
- ❖ The tender documents can be downloaded from the institution's website https://sreerama.ac.in/srec/aicte-idea-lab/#1756463231514-3a583b43-1a4f
- ❖ Bidders must not be blacklisted or under investigation by any government authority.
- OEM authorization is mandatory where applicable.
- ❖ All documents must be signed and stamped by the authorized signatory.
- ❖ Incomplete or conditional bids will be rejected.
- ❖ Bids must be submitted before the deadline specified in the tender notice.
- ❖ All goods must be delivered, installed, and commissioned within the time frame specified in the Purchase Order (PO).
- A Partial deliveries may be accepted only with prior written approval from the signatory.
- Failure to meet the delivery schedule may lead to penalties or cancellation of order.
- Any faults during the warranty period must be rectified and replaced if required by the supplier at no additional cost.
- ❖ Bidders must provide details of service support and escalation matrix.
- ❖ All disputes shall be subject to arbitration in accordance with the Arbitration and Conciliation Act, 1996.
- ❖ The jurisdiction for all legal proceedings shall be Tirupati.

2. Conditions of Contract

- ❖ The contract shall be governed by the General Financial Rules (GFR) 2017 and the terms set forth in this document.
- ❖ The successful bidder shall provide a Security of 5% of the purchase value. The same will be refunded after the successful supply & installation of machinery and equipment.
- ❖ The items must be delivered and installed within 45–60 days from the date of purchase order.
- ❖ A warranty of minimum 3 years must be provided on all supplied equipment's.

3. Schedule of Requirements

❖ The bidder must supply equipment listed under the technical specifications to Sree Rama Engineering College, Rami Reddy Nagar, Karakambadi road, Tirupati-517507.



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4. Specifications and Allied Technical Detail

S. No	Equipment	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D Printer	Branded Company Product with at least three years of product warranty	Build volume: 305×305×280 mm Layer Thickness: 0.05-0.4 mm Print Precision: ±0.2 mm Core XY, Enclosed, Hot end: 3700C Heated bed: 1200C Multiple nozzle sizes (0.2, 0.4, 0.5, 0.8 mm) Dual-sided textured PEI plate, Filament 1.75 mm, supports many materials, such as PC, PA, ASA, ABS, and carbon/glass-fiber, Hardened direct-drive gears composites, 5" HD Touchscreen, Connectivity: USB, LAN, Wi-Fi, Enclosed, Max Dimensions: ~700 mm	1
2	PCB Milling Machine	Branded Company Product with at least three years of product warranty	Cuttable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc. Table Size: 225(X) × 150(Y)mm or more Drive System: Stepping Motor (X, Y, Z Axis) Operating Speed: 800 mm/min Software Resolution: 0.01mm/step Position accuracy: 0.01 to 0.02mm 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: DC24V,2.5A (viaAC100– 240V, 50/60Hz adapter) Power Consumption: Approx 50W or more	1
3	CO2 Laser Cutting Machine	Branded Company Product with at least three years product warranty	Working Area: Min 600 x 900 mm or above Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Up to 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 25 mm: 3 Nos. Acetone: 1 litreacrylic sheet: 2 No's	1
4	Vinyl Printer	Branded Company Product	Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs. or less	1



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			Mara art aire erriga graetine grate. 11.5 inch er 22.5 inch er	
		with at least three	Max cut size using machine mat: 11.5-inch x 23.5 inch or	
		years product	more Cut speed: up to 14.1 ips	
		warranty		
5	3D Scanner	Branded Company Product with at least three years product warranty	Technology: Stereo camera, structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5 GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more Working Distance: Effective Working Distance: 160mm-1400mm Scan Speed: 980,000 points/s, up to 14FPS Align Modes: Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan: Yes Interface: USB 2.0 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: Up to 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web	1
6	Lathe Machine cum milling	Branded Company Product with at least three years product warranty	Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Work piece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck:3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8 Motor Rating: 550W or better, induction motor, single phase 230V Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more Additional Accessories: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample	1



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			workpieces (Nylon Rod, Aluminum Rod) Desktop: 1 No.	
7	CNC Router	Branded Company Product with at least three years product warranty	X, Y, Z, Working Area (Minimum): 1300x2500x200 mm X, Y, Z Positioning Accuracy: ±0.03/300 mm X, Y, Z Repeatability: ±0.05mm X, Y, Accuracy <0.01mm Structure: Ground Stress - Relieved Steel Base X, Y, Axis: Imported Guide ways & Rack & Pinion Z Axis Imported Guide ways & Ball bearing Screws with anti-backlash ball nut Spindle Power (Minimum): 3.0 Kw HSD - Italy servospindle Travel Speed: 0-32,000mm/min Cutting Speed: 0-20,000mm/min Spindle Speed: 0-18000 rpm Drives: All 3-axis micro stepper or Servo Japan Voltage: AC220V/50-60Hz Interface & Flash Memory: Printer Port 50pin and USB, 32MB Collets: Ø 3.175, Ø 4. Ø 6 & 12.75 (Minimum) Cutters: 20 Nos (Minimum) Software: Compatible Software with Perpetual License Spindle cooling: Air cooled/ water cooled Working table: Aluminum profile with T slot Control system: DSP A11 and higher Guide rail: 20mm linear square guide rail Dust collector system Motor Power: 2.2kw Air Delivery(m3/h): 2300 Air Speed(m/s): 20-25 Inlet Size(mm): Φ4"x3 Collect Bag(pcs): Φ480x2 Overall Size (mm): 1000x500x2050	1
8	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450 rpm or more Belt Size: 100 x 914 mm or less Disc Size: 150mm or better Table Tilting Range: 0°-45° Belt Tilting Range: 0°-90° Table Size: up to 190 x 125 mm	1
9	Scroll Saw	Branded Company Product with at least three years product warranty	Power input: 50 Watt Thickness of Cut: 50 mm (2 inch) Throat: 406 mm (16 inch) Length of Stroke: 18 mm (11/16 inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch)	1



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10	Wood Turning Lathe	Branded Company Product with at least three years product warranty	Motor: 230V~50Hz, 550W, S2: 15min or above Max. Disc Diameter: min 75 mm Max. Cutting Length: 450 mm or more Spindle Speed: 5 speeds such as 1600 / 2600 / 3200 RPM etc. Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850 m	1
11	Bench Top Drill Machine	Branded Company Product with at least three to five years 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 Vise: 1 No., Drill Bit Set 10 Pcs: 1 No	1
12	Portable Welding Machine	Branded Company Product with at least three to five years 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: 15200 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	Computerized Sewing Machine	Branded Company Product with at least three years product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight: 7.6 kg Number of Stitches: 120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles: 7 LCD Screen Display: Yes Bed Type: Free Arm/Flatbed convertible Bobbin Type: Drop & Sew Bobbin System	1
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	Operating Temperature Range: Min 45°C–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	Branded Company Product with at least three years product warranty	No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C Overall Dimensions: min 350×450 mm	1



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			Machine Weight: Up to 25 kg	
			Manime Weight. Op to 20 kg	
16	Digital multimeter	Branded Company Product with at least three years product warranty	Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: ±0.5% or ±3 digits, whichever is higher AC Voltage Accuracy: Within ±1% + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: ±1.5% + 3 digits (approximate) AC Current Accuracy: ±1.5% + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±5% or ±5 digits Operating Temperature Range: From 0°C up to approximately 40°C Storage Temperature Range: Between -30°C and 60°C Overall Dimensions (H×W×L): Approximately 183×91×49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	5
17	MSO 100 MHz	Branded Company Product with at least three years product warranty	Bandwidth: Up to 100 MHz Analog Channels: 4 or more Real-Time Sampling Rate: Maximum 1 GSa/s per channel Memory Depth: 10 Mpts per channel Waveform Update Rate: Approximately 120,000 wfms/s Vertical Resolution: 8 bits Vertical Scale: Ranging from 1 mV/div to 10 V/div 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,	1
18	Digital oscilloscope	Branded Company Product with at least three years 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	1



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			Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGoBNC. 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. 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 color LCD with 800×480 resolution Time Base Range: From 5 ns/div to 100 s/div, useradjustable Vertical Resolution: 8-bit digital resolution Trigger Modes: Automatic, Normal, and Signal-dependent triggeringMaximum Input Voltage: 300 Vrms (within safety limits) Input Sensitivity: Within the range of 1 mV/div to 10 V/div Input Coupling Options: Selectable among AC, DC, and Ground Trigger Coupling Modes: Configurable as AC, DC, High-pass, or Low-pass Physical Dimensions: Approximately 350 × 200 × 120 mm or above Unit Weight: 2.5 kg or above Input Impedance: Nominal 1 MΩ // 16 pF Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering, and AUTOSET configuration for display scaling (time base/gain) Protocol Decoding Support: Capable of analyzing I2C, SPI,	
19	Power supply	Branded Company Product with at least three years product warranty	Output Configuration: 4-channel design with independent electrical isolation across all outputs Channel Output Ranges: • CH1 & CH2: Adjustable output voltage from 0 to 32V with a currentdelivery 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 (approximate value within rated voltage range) Load Regulation: ≤ 0.01% + 3 mV (across rated load	1



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		ı	ni Reddy Nagar, Karakambadi road, Tirupati-517507	
			variation)	
			Ripple & Noise: ≤ 1 mVrms across full bandwidth	
			Constant Current Operating Mode Line Regulation: ≤	
			\ VI	
			==	
			** '	
			mm × 200 mm	
			Maximum Weight: 10 kg or less	
			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 1	
			MHz.	
			- ·	
			maintained within a maximum of 0.1 Hz.	for as for ernal × 100 utput gnals ms: 0 1 be be be t=5 V hin be shall for
			2.2% + 3 mA coad Regulation: ≤ 0.2% + 3 mA Ripple current: ≦ 3 mArms (typical) afety & Operational Features cutput Control: Independent output ON/OFF switching unctionality is required voltage Resolution: Approximately 100 mV (*1) current Resolution: Approximately 10 mA (*1) isplay Parameters coisplay Units: Four separate displays required for addividual channel status visualization coisplay Type: 4.3-inch LCD (color or monochrome as pplicable) functional Features racking Operation: Supported (required for ynchronizing output behavior) cuto Series/Parallel: Supported (automatic internal econfiguration required) cower Requirements cupply Input: 230 V AC ±10%, 50 Hz dechanical Specifications daximum Dimensions (W × H × D): Within 200 mm × 100 cun × 200 mm daximum Weight: 10 kg or less cutput Function: The equipment shall provide output vaveforms including sine, square, triangle, and TTL signals is required. requency Range: For sine and square waveforms: provimately 0.1 Hz up to 3 MHz. for a triangle waveform: approximately 0.1 Hz up to 1 MHz. requency Resolution: Frequency resolution shall be natintained within a maximum of 0.1 Hz. requency Stability: The frequency stability shall be rithin ±20 ppm (parts per million). requency Aging: Frequency aging shall not exceed ±5 pm per annum. complitude Range: Output amplitude shall be up to 10 V each-to-peak (Vp-p) into a 50 Ω load. complitude Range: Output amplitude shall be up to 10 V each-to-peak (Vp-p) into a 50 Ω load. complitude Range: Output amplitude shall be up to 10 V each-to-peak (Vp-p) into a 50 Ω load. complitude Range: Nominal output impedance shall be of Ω with a tolerance of ±10%. cutenuator: A single-step attenuator of -40 dB ±1 dB shall e provided. Display: A 6-digit LED display shall be incorporated for arameter indication.	
		D 1.1C		o tt s
	Francisco	Branded Company		
20	Function	Product with at		1
	Generator	least three years		
		product warranty		
			parameter indication. Output Control: Output shall be controlled via an ON/OFF	



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			selector switch. Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 110 V $\pm 10\%$, with frequency 50/60 Hz. Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0 °C to 40 °C. Dimensions: Maximum dimensions shall not exceed 255 mm (W) \times 95 mm (H) \times 295 mm (D). Weight: The Maximum device weight shall be within 2.5 kg.	
21	Bench Top Multimeter	Branded Company Product with at least three years product warranty	DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: \pm (0.03% rdg + 4 digits). Input impedance: 10 M Ω . AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: \pm (0.5%–5% rdg + digits) depending on frequency and range. Input impedance: 10 M Ω . DC Current: Range: 500 μ A to 20 A across 6 ranges. Accuracy: \pm (0.02%–0.3% rdg + 2 digits) depending on range. AC Current (True RMS): Range: 500 μ A to 20 A across 6 ranges. Accuracy: \pm (0.5%–1% rdg + digits) depending on frequency. Resistance: Range: 500 Ω to 20 M Ω across 6 ranges. Accuracy: \pm (0.1%–0.3% rdg + digits) depending on range. Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μ F. Accuracy: \pm (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 \pm 10%, 50/60 Hz. Dimensions & Weight: Approximately 251 × 91 × 291 mm; 2.6 kg.	1
22	Non-Contact Voltage Tester	Branded Company Product with at least three years product warranty	Function: Non-contact AC voltage detection tester. Voltage Detection Range: Approximately 90 V to 1000 V AC. Detection Method: Capacitive, with visual and audible indication. Sensitivity: Adjustable sensitivity for different voltage ranges. Response Time: Instantaneous detection within standard operating conditions. Indicators: Bright LED indicators and 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



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	1	l Nai	mi Reddy Nagar, Karakambadi road, Tirupati-517507	
			Dimensions: Compact, handheld design suitable for field use (approx. 150 mm × 30 mm × 25 mm). Weight: Lightweight, approximately 150 g for ease of portability.	
23	LCR Meter	Branded Company Product with at least three years product warranty	Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both primary and secondary displays. Basic Accuracy: Within ±0.2% under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Up to 15 different measurement combinations available. Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ±1 V. Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow). 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: Data logging software is available for data capture and analysis.	1
24	Soldering Station	Branded Company Product with at least three years product warranty	Power Rating: Approximately 60 W maximum output power. Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within ±2 °C under normal operating conditions. Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance. Display: Digital or analog temperature display (depending on variant) for precise temperature control. Temperature Control: Adjustable via knob or digital interface with fine resolution. Power Supply: AC 220 V ±10%, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards. Dimensions: Compact design with 100 mm × 100 mm × 90 mm (W × H × D) or above Weight: Approximately 1.5 kg for ease of portability and bench use.	3
25	Digital Microscope	Branded Company Product with at least three years product warranty	Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080, 640*480 Pixel: 30W Focal length: 3-40mm manual adjustment. Support Android 4.2 or above/Windows/Mac systems	1



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26	Soldering Rework Station	Branded Company	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	1
27	Hand Drill Machine	Branded Company Product with at least three years product warranty	approximately 0 °C to 40 °C Rated Input Power: Approximately 500 W or above, maximum power consumption. Bit Holder: Standard 1/2"-20 UNF thread type. No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm. Power Output: Approximately 300 W continuous output power. Weight: Approximately 1.7 kg total device weight. Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4 Nm maximum torque output. Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread. Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.	2
28	Cordless drill	Branded Company Product with at least three years product warranty	Torque (soft/hard/max.): Min 21/50/- Nm No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm Weight incl. battery: 1.3 kg or less Max. impact rate: 27,000 bpm Battery type: Lithium-Ion or equivalent Chuck capacity, min./max.: 1.5 / 13 mm Weight excl. battery: 0.99 kg	2



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		INdi	Torque settings: 20+2 or better	
			Torque seamgs. 20+2 or seach	
			D. 11 . D	
			Rated Input Power: Approximately 500 W maximum power	
			consumption.	
		Branded Company	Voltage, Electrical: Nominal 230 V AC supply.	
29	Jig Saw	Product with at	Saw Stroke Length: Approximately 20 mm stroke length.	1
	8	least three years	Stroke Rate at No Load: Adjustable within approximately	
		product warranty	800 to 3,100 spm (strokes per minute).	
			Weight: Approximately 2.08 kg total weight. Bevel Angle:	
			Adjustable within approximately -45° to 45° range.	
			Rated Input Power: Approximately 1,750W 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	ength. pximately el Angle: maximum nominal left and left and 130 mm mm × 91 mm × 130 . maximum Weight: within
			0° right.	
		D 110	Saw Blade Bore Diameter: Approximately	
		Branded Company	25.4 mm standard bore.	
30	Miter Saw			1
		product warranty	Cutting Capacity at 0°: Approximately 90 mm × 130 mm	
		product warranty	maximum cross-section.	
			Cutting Capacity at 45° Meter: Approximately 90 mm × 91 mm maximum cross-sections.	
			Cutting Capacity at 45° Bevel: Approximately 60 mm × 130	
			mm maximum cross-sections.	
			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.	
			Rated Input Power: Approximately 1,800 W maximum	
			power consumption.	
			Voltage, Electrical: Nominal 230 V AC supply. Weight:	
		D 1. 1.C	Approximately 0.75 kg.	
		Branded Company Product with at		
31	Hot Air Gun	least three years	approximately 60 °C to 550 °C.	2
		product warranty	Heat-Up Time: Approximately 1 second to reach target	
		1	temperature.	
			Airflow: Adjustable within approximately 350 to 550 liters	
			per minute.	
			Airflow Control: Three selectable airflow settings.	



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32	Table saw	Branded Company Product with at least three years product warranty	Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm, 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	Branded Company Product with at least three years product warranty	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load 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	Branded Company Product with at least three years 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	Branded Company Product with at least three years product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, 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	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,400 W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically, 5,200 rpm. Weight: Around 4.1 kg	1
37	Blower	Branded Company Product with at least three years product warranty	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ±3 dB	1



(Autonomous)

	1	1.01	Tii Neddy Nagar, Narakambadi Toad, Tiidpati-517507	
38	Cordless Screwdriver	Branded Company Product with at least three years product warranty	Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 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 setting.	1
39	Vacuum Cleaner	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,100 W maximum power consumption. Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 liters capacity. Voltage, Electrical: Nominal 230 V AC supply. Container Volume (Gross): Approximately 15 liters total volume. Container Volume (Net, Water): About 8 liters of capacity for water. Filter Surface Area: Around 2,300 cm² effective filtration area. Airflow Rate (Turbine): Approximately 53 liters per second. Vacuum Pressure (Turbine): Up to 270 mbar vacuum pressure. Number of Wheels: Four wheels for mobility.	1
40	Random orbit sander	Branded Company Product with at least three years product warranty	Rated Input Power: Up to 280 W maximum consumption. Sanding Pad Diameter: Nominal 125 mm diameter. Orbit Diameter: Approximately 2.6 mm orbital diameter. Weight: Around 1.4 kg. No-Load Speed: Adjustable within a 7,500 to 12,000 rpm range. Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm). Eccentricity: Approximately 1.3 mm.	1
41	Planer	Branded Company Product with at least three years product warranty	Rated Input Power: Not exceeding 710 W under nominal operating conditions. Planer Width: Approximately 82 mm effective width capacity. Planer 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



(Autonomous)

	1		Tir Roday Hagar, Rarakambaar roda, Firapati o 17 oor	
42	Cordless Vacuum Cleaner with Starter Kit	Branded Company Product with at least three years product warranty	Battery Voltage: Rated at approximately 18.0 V nominal voltage. Weight Excluding Battery: Around 1.3 kg without battery attached. Container Volume: Approximately 0.7 liters net capacity. Filter Surface Area: Roughly 55 cm² filtration surface. Maximum Airflow Rate (Turbine): Up to 10 liters per second. Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions. Operating Time (18 V Battery): Typically, 7 minutes per Ah of battery capacity.	1
43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	Rated Power Input: Approximately 175 W within the nominal voltage range. Voltage: Operates within a 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 a multichuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s² measured vibration	2
44	Rubber Grip Hacksaw	Very Good Quality	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	2
45	Hacksaw Mini	Very Good Quality	Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Very Good Quality	H) overall size	2
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm \times 10 cm \times 2 cm (L \times W \times 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: Approx 1.74Kg nom.wt Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1



(Autonomous)

51	Combination Spanner set 8Pcs	Very Good Quality	Weight: Approx 649g nom.wt Qty: 8pcs/set.	1
52	Allen key set 10pcs	Very Good Quality	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
53	Allen key set 12pcs	Very Good Quality	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: Approx 422g nom. wt Size: 8"/200mm nominal	2
55	Long nose plier	Very Good Quality	Weight: Approx 399g nom. wt Size:180mm/6" nominal	2
56	Circlip straight 5"	Very Good Quality	Weight: Approx 399g nom. wt Size:130mm/5" nominal	2
57	Circlip bent	Very Good Quality	Weight: Approx 399g nom. wt Size: 130mm/5"" nominal"	2
58	Diagonal Cutter	Very Good Quality	Weight: Approx 239g nom .wt Size:180mm nominal"	2
59	Wire Stripper	Very Good Quality	Weight: Approx 281g nom. wt Size:130mm nominal	2
60	Adjustable spanner	Very Good Quality	Size: Up to 150 mm	2
61	Pipe wrench	Very Good Quality	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 mm	2
65	16pcs screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	5
66	6pcs precision screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	5
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



(Autonomous)

	D . D. G	I	ni Reddy Nagar, Karakambadi road, Tirupati-517507	
75	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Very Good Quality	WAF (mm):1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10, 10.5, 11,11.5,12,12.5,13 Wt.: ~1.3Kg nom. wt Sz(mm):205×115×55 overall	2
77	Baby wise	Very Good Quality	Vice Type: Bench Size: 2" nominal Jaw Width: 50mm	2
78	Ratchet Set	Very Good Quality	Vice Type: Bench Size:2" nominal; Jaw:50mm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Caliper 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 Scale Size: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 × 80 mm nominal Material: Carbon Steel	2
85	Meter Tape 30m	Very Good Quality	Length: 30 m	1
86	Measuring Tape 3M	Very Good Quality	Length: 3 m	3
87	Measuring Tape 5M	Very Good Quality	Length: 5 m	3
88	Spirit Level	Very Good Quality	Vials: 3 Accuracy: 0.5mm/m Length: 300 mm Product Type: Level	3
89	Goggle	Very Good Quality	Goggle – Industrial Standard Make	5
90	Apron	Very Good Quality	Apron - Standard Make	5
91	Ear Muff	Very Good Quality	Earmuff – Industrial Standard Make	5
92	Mask	Very Good Quality	Mask – Industrial Standard Make	50
93	Fire Extinguisher	Very Good Quality	Fire Extinguisher– Industrial Standard Make	6



(Autonomous)

94	First Aid Kit	Very Good Quality	First Aid Kit – Industrial Standard Make	2
95	Gloves Pair	Very Good Quality	Gloves – Industrial Standard Make	10
96	Normal Oven	Branded Company Product with at least three years product warranty	Oven Cap: 20L or more Type: Solo Door: Side Swing Child Lock: Yes Completion Beeper: Yes Power Levels: Up to 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm): 455 × 252 × 320 PowerOut: 700W or less	1
97	Refrigerator	Branded Company Product with at least three years product warranty	Capacity:183L or more Annual Energy Consumption: 148kWh/Year or less Refrigerator Fresh Food Capacity: 165L or more Freezer Capacity: min 18L Bottle Count: 5 or more Noise Level:40dB or less Installation Type: Free-standing	1
98	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx 75Inch (190 cm) Up to Resolution: 4K UHD or higher Brightness: Min 350 nits; Typ 400 nits Approx Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms Viewing Angle: Approx 178 Degrees Wide Working Frequency:1.5GHz Nominal RAM: 4 GB or More Internal Storage: 32 GB Min OS: Android-based HDMI: 3Ports USB: 2 Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass or Equivalent Infrared Touch Points: 20Approx Voltage: DC +5V ±5% Range OPS: Optional	1
99	Projector	Branded Company Product with at least three years product warranty	Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1 Port (Firmware Update/Copy OSD) Approx Analog Input: D-Sub 15pin:1 Port Digital Input: HDMI:1 Port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal Focal Length:16.70 mm Approx FNumber: 1.44 Nominal Zoom: 1.44 – 1.95 Ratio (Wide to Tele) Throw Ratio Range: 1.00 – 1.35 (Digital Zoom Approx)	1
100	Printer	Branded Company Product with at least three years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm): 409 × 398.5 × 267 Approx Weight: 9.7 Kg Nominal	1



(Autonomous)

		Nai	Print Speed: Up to 30 ppm(A4Size)	
			Approx Warranty: 1 Year On-Site	
			Print Resolution: 600 × 600dpi, HQ1200(2400 × 600dpi)	
			Quality Approx 2 Sided-Duplex	
			Paper Type: Plain, Thin, Recycled, Approx 2 Sided-Duplex	
			Paper Size: A4	
			Paper Handling: Tray #1	
			Paper Type: Plain, Thin, Recycled Tray #1	
			Max Capacity: Up to 250Sheets(80g/m²)	
			Approx Paper Output: Up to 100 Sheets(80g/m²)	
			Face Down Tray; One Sheet Face Up Tray Approx	
			Copy-Color /Mono: Yes/Yes Multiple	
			Copies: Sorts/StacksUpto99PagesApproxEnlarge/Reduce:2	
			5% 400% (In1%Steps)	
			Approx CopyResolution:600×600dpi 2Sided-Duplex	
			Copy Paper Type: Plain, Thin, Recycled 2-sided-Duplex	
			CopyPaperSize:A4 Scan	
			ResolutionInterpolated: Up to 19200 ×19200 dpi Approx-	
			Scan	
			Resolution Glass: Up to 600 × 2400 dpi Approx	
			Connectivity: Hi-Speed USB 2.0	
			Display Type: 16 Chars × 2 Lines	
			Memory Capacity: 32MB Approx	
			Power Source: 220 - 240 VAC 50/60Hz Power Consumption-Ready: Approx 60W	
			Power Consumption-Sleep: Approx 6.6W	
			Power Consumption-Off: Approx 0.08W	
			Noise Level: 50dB(A) Approx	
		Branded Company	CPU: INTEL CORE i7-12th Gen or Higher	
101	D 1.	Product with at	RAM: 8 GB + 512 GB SSD or more	_
101	Desktop	least three years of product	Conn:LAN + WIFI + BLUTOOTH + KEYMOUSE	5
		warranty	Display: 20" DESKTOP MONITOR	
			Weight Kg: 1 Approx	
			Melt Flow Index: 2 (190°C/2.16kg) Nominal	
			Filament Length: 330 m Approx	
			Dim Accuracy: +/-0.1 mm Approx	
102	3D printer		Roundness Accuracy: +/-0.5 mm Approx	10
102	Filament	Very Good Quality	Spool Inner Dia: 55 mm Nominal	-
			Spool Outer Dia: 20 mm Approx	
			Spool Weight: 300 g Nominal	
			Spool Width: 65 mm Approx	
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	Very Good Quality		20



(Autonomous)

	5mm, 4ft x 4ft		ii Neddy Nagai, Naiakailibadi 10ad, Tiidpati-517507	
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2
107	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality		1
108	Foam Sheet 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,6mm,8m m, 10mm, 12mm) Pack of 100	Very Good Quality		1
113	Bolts (3mm,4mm, 5mm, 6mm,8mm, 10mm, 12mm) Dia 1" Inch Pack of 100	Very Good Quality		1
114	Screws (3mm, 4mm, 5mm) Pack of 100	Very Good Quality		1
115	Washers (3mm,4mm, 5mm, 6mm, 8mm, 10mm, 12mm) Pack of 100	Very Good Quality		1
116	Studs (6mm,8mm) 1 Meter	Very Good Quality		2
117	Nails (1",2",3",1.5",5") Pack of 100	Very Good Quality		1
118	Fevicol 2Kg	Very Good Quality		1
119	2 Way Tape	Very Good Quality		10
120	PVC Pipe .75", 10ft	Very Good Quality		10
121	PVC Pipe 1",10ft	Very Good Quality		10
122	PVC Pipe 1.5",	Very Good Quality		10



(Autonomous)

	10ft		The roady Hagai, Harakambaar road, Hagair 617607	
123	PVC Pipe 2.0", 10ft	Very Good Quality		10
124	Aluminum channels (L, C, Box, strip length 12 ft)	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		10
131	Arduino UNO R3	Very Good Quality		5
132	Arduino NANO	Very Good Quality		5
133	ESP Wi-Fi Camera	Very Good Quality		5
134	Raspberry Pi Model 4B, 4GB	Very Good Quality		3
135	ESP8266 Node MCU	Very Good Quality		2
136	ESP32 Development Board	Very Good Quality		2
137	Beagle bone blue	Very Good Quality		1
138	Beaglebone Black	Very Good Quality		1
139	Voltage Regulator Module	Very Good Quality	3V, 5V and 12V	5
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



(Autonomous)

	GSM/GPRS/GPS	1.00.	III Keddy Nagai, Karakambadi Toad, Tirupati-317307	
145	GSW GT RS/ GT S	Very Good Quality		2
	Module			
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		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		2
167	PIR Motion Detector Module	Very Good Quality		2
168	Pulse Rate Heart Sensor	Very Good Quality		2
169	Relay Module	Very Good Quality	5V, 9V and 12V	5
170	Soil Moisture Sensor	Very Good Quality		2



(Autonomous)

171	Touch Sensor	Very Good Quality	Troday Hagar, Narahambaar 1000, Firapar 017007	2
172	Rain Drop Sensor	Very Good Quality		2
173		Very Good Quality		2
174	Sensor	Very Good Quality		2
175	Sensor	Very Good Quality		2
176	Sensor	Very Good Quality		2
177	Water Flow Sensor	Very Good Quality		2
178	Sound Sensor	Very Good Quality		2
179	IR Sensor Array for Line Following	Very Good Quality		2
180	RFID Reader-Tags	Very Good Quality		2
181	RF Modules Tx & Rx 315 MHz ASK	Very Good Quality		2
182	Stepper motor with Driver Board	Very Good Quality		2
183	Servo Motor 360 rotation	Very Good Quality		10
184	Servo Motor 180 rotation	Very Good Quality		10
185	Metal Gear Servo Motor (180°Rotation)	Very Good Quality		10
186	Solder Wire 100grm	Very Good Quality		10
187	Solder Flux	Very Good Quality		10
188	830 Points Solderless Breadboard	Very Good Quality		5
189	400 Points Solderless Breadboard	Very Good Quality		5
190	single side	Very Good Quality		10
191	Copper-clad board double-sided	Very Good Quality		10
192	Male to Male Breadboard Jumper	Very Good Quality		100
193	Female to Female Breadboard Jumper	Very Good Quality		100



(Autonomous)

194	Male to Female Breadboard Jumper	Very Good Quality		100
195	Push Button Switch	Very Good Quality		20
196	Arduino MEGA	Very Good Quality		5
197	Videography Drone	Very Good Quality	✓ Quad Copter ✓ Flying time : 20-30 mins ✓ Battery capacity: 16000 mah ✓ Flying range : 1km ✓ Camera esolution : 4k ✓ Flight Controller : Orange cube ✓ Transmitter : T12 or H12 ✓ Total payload capacity : 2kg (aapx)	1



(Autonomous)

5. Price Schedule Format

- ❖ The Technical & Financial bid must be submitted strictly in the Bid submission format provided(annexure 1)
- ❖ All prices must be inclusive of all taxes, duties, and delivery charges.
- ❖ The price bid must be mailed to principal@sreerama.ac.in and also to be submitted in a separate sealed envelope to:

The Principal

Sree Rama College of Engineering

Rami Reddy Nagar

Karakambadi Road

Chittoor

Tirupati

Andhra Pradesh - 517507

Clearly marked as "Technical &Financial Bid" on the envelope

6. Qualification Requirements

❖ Bidders must submit the Technical and Financial Bids along with copies documents listed in the check list (annexure 2)

7. Other Standard Forms

- ❖ The following forms must be submitted:
 - Non-black listing form (annexure 3)
 - Declaration on Non-Chinese and/or Pakistan Origin of Equipment / Instruments
 - / Machinery (annexure 4)
 - Bid Security Declaration (annexure 5)

FORMAT FOR BID SUBMISSION

Note to Bidders: This format must be strictly followed. Technical and financial bids must be submitted in a sealed envelope and alsothrough e-mail.

I. TECHNICAL BID FORMAT

Covering Letter (on bidder's letterhead)

To: The Principal, Sree Rama College of Engineering, Rami Reddy Nagar, Karakambadi Road, Chittoor District, Andhra Pradesh-517507

Subject: Submission of Technical Bid for the supply of Equipment/tools/Machine

- 1. Bidder Information:
- Company Name:
- Registered Address:
- Contact Person:
- Email ID:
- Mobile Number:
- Legal Status: (Proprietorship / Partnership / Pvt Ltd / Public Ltd / Others)
- PAN & GST Numbers (attach copies)
- 2. Eligibility Documents:
- Certificate of Incorporation / Registration
- GST Registration and PAN Copy
- OEM Authorization Letter (if applicable)
- Declaration of Non-Blacklisting (Annexure-3)
- Experience Certificate (minimum 3 years)
- Financial Turnover (last 3 years with CA certificate)
- 3. Technical Compliance Sheet:
- Compliance with all technical specifications item-wise (Yes/No)
- Supporting product datasheets, brochures, or technical manuals (to be attached Compulsorily)

4.	Service	&	Warranty	Details:

- Minimum warranty offered: 3 years
- After-sales support details (Please provide the details below)

- Service escalation matrix (compulsorily to be provided by the vendor)	

Authorized Signatory:

Name:

Designation:

Signature with Seal:

Date:

II. COMMERCIAL (FINANCIAL) BID FORMAT

Covering Letter (on bidder's letterhead)

To: The Principal, Sree Rama College of Engineering, Rami Reddy Nagar, Karakambadi Road, Chittoor District, Andhra Pradesh-517507

Subject: Submission of Commercial Bid for [Tender Name]

Price Bid Format (to be filled as per below template):

Sl.	Item Description	Qty	Unit Price	GST	Total Price
No.			(INR)	%	(INR)
1					
2					
	Grand Total (incl. taxes)				₹

Note:

- All prices must be inclusive of delivery, installation, training, and three years warranty.
- Bids quoting NIL charges shall be treated as unresponsive and rejected as per GFR Rule 173(i).

Auth	021700	Signator	7.
AIIIII		AISHAHOI '	v
ILUUII	OIILCU	DISHUUUI	, .

Name:

Designation:

Signature with Seal:

Date:

CHECKLIST

(To be printed on the bidder's letterhead and signed by the authorized signatory)

Sl. No.	Document Description	Attached (Yes/No)	Page No. / Reference
1	Annexure 1-Bid submission		
2	Annexure 3-Declaration of Non-Blacklisting		
3	Annexure 4- Declaration on Non- Chinese and/or non-Pakistan Origin of Equipment / Instruments / Machinery		
4	Annexure 5- BID Securitydeclaration		
5	Covering Letter for Technical Bid		
6	Certificate of Incorporation / Registration		
7	PAN and GST Registration Copies		
8	OEM Authorization Letter (if applicable)		
9	Experience Certificates (3 years minimum)		
10	Financial Turnover Statement (last 3 years, CA certified)		
13	Product Brochures / Catalogues		
14	Service Support Details & Escalation Matrix		

Declaration:

I hereby certify that the above documents have been enclosed in the Technical& Financial Bid Envelope and are true and correct to the best of my knowledge.

Authorized Signatory
Name:
Designation:
Signature with Seal
Date:

Declaration of Non-Blacklisting

I/We,	M/s, having our registered office at, do hereby declare that:
1.	We have not been blacklisted or debarred by any Government Department, Public Sector Undertaking, Autonomous Body, or any other Government Agency in India or abroad.
2.	We are not involved in any litigation that may impact or compromise the timely delivery, quality, or execution of services/goods as required under this tender.
3.	We understand that any false declaration in this regard shall result in our disqualification and may lead to further legal action by the procuring entity.
4.	All the information and documents submitted by us in the bid are true and correct to the best of our knowledge and belief.
Autho Name:	orizedSignatory:
Design	nation:
Comp	any Seal:

Date:

Declaration on Non-Chinese and/or non-Pakistan Origin of Equipment / Instruments / Machinery

(To be	submitted on the bidder's letterhead and signed by the authorized signatory)
I/We,	M/s, having our registered office at
	, do hereby declare that:
1.	All equipment, machinery, instruments, or components proposed to be supplied
	under this tender are not manufactured in the People's Republic of China
	and/or Pakistan, nor are they of Chinese/Pakistan origin or assembled using
	parts sourced from Chinese/Pakistan manufacturers.
2.	We fully comply with the Government of India's guidelines, orders, and circulars
	regarding the procurement of goods from countries sharing a land border
	with India, particularly those related to restrictions on Chinese origin equipment
	as per:
	o Ministry of Finance, Department of Expenditure, Public Procurement
	Division, Order No. F.No.6/18/2019-PPD dated 23rd July 2020, and
	related amendments.
3.	We understand that non-compliance with this declaration shall render our bid
	liable for rejection, and may also invite penal action including blacklisting.
4.	We undertake that, if at any stage the above declaration is found to be false,
	Mangalore Institute of Technology & Engineering, shall be at liberty to terminate
	the contract and forfeit our security deposit/performance guarantee without notice.
Autho	orized Signatory:
Name:	
Design	nation:
Comp	any Seal:

Date:

Annexure -5

BID Security Declaration

I/We understand that, as per tender conditions, bids must be supported by a Bid Security Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with [Institution Name] for a period of one year if I am / we are in breach of any obligation under the bid conditions, including:

- (a) Withdrawal/modification of bid during the period of bid validity.
- (b) Failing to sign the contract after award of bid.

Signed:
Name:
Designation:
Official Seal:
Date: