



**THE VEERASAIVA VIDYAVARDHAKA SANGHA'S
RAO BAHADUR Y MAHABALESWARPPA ENGINEERING COLLEGE
CANTONMENT, BALLARI -583104
(APPROVED BY AICTE, NEW DELHI & AFFILIATED TO VISVERAYA
TECHNOLOGICAL UNIVERSITY, BELAGAVI)
ACCREDITED BY NBA & NAAC WITH 'A+' GRADE**



Ref: R Y M E C /Admn/AICTE-IDEA LAB -Tender/2025-26/1

Date: 17/09/2025

Tender Document of MITE-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 www.rymec.edu.in.
- ❖ 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).
- ❖ 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 Ballari.

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 equipments.

3. Schedule of Requirements

- ❖ The bidder must supply equipment listed under the technical specifications to Rao Bahadur Y. Mahabaleswarappa Engineering College, Kolagal Road, Cantonment, Ballari -583104, Karnataka.



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4. Specifications and Allied Technical Details

Sl.No	Equipment	Preferred brands if any	Specifications	Qty
1	Single Nozzle 3D printer	Branded Company Product with at least three years product warranty	<p>Printing Technology: Fused Filament Fabrication (FFF) or Fused Deposition Modeling (FDM).</p> <p>Printable Area: The minimum printable area should be at least 310 x 310 x 310 mm or above</p> <p>Printer Design: Core XY or Cartesian.</p> <p>Temperature Range:</p> <p>Hot end: Up to 300°C or above</p> <p>Heat bed: Up to 120°C. or above.</p> <p>Nozzle: Compatible with All polymers, 0.4, 0.6 and 0.8mm</p> <p>Steel Sheet: Provided with satin or smooth PEI surface.</p> <p>Filament Diameter: 1.75 mm (supports PLA, PETG, ASA, ABS, etc.).</p> <p>Extruder: Gear box with 1/10 ratio,</p> <p>Speed: 550 MM/Sec or above</p> <p>Stepper Drivers for smooth motion or equivalent.</p> <p>Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors.</p> <p>LCD Screen: 3.5" graphic 65k color screen or larger.</p> <p>Connectivity: USB drive, LAN, or internet.</p> <p>Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments and more.</p> <p>Wi-Fi Module: Built-in (network connectivity not required for setup or operation).</p> <p>Compatibility: Windows, mac OS, Linux.</p> <p>Printer Dimensions: The maximum physical Dimensions of the system 700X700X700mm or above. Fully enclosed Machine.</p>	1
2	PCB Milling Machine	Branded Company Product with at least three years	<p>Cuttable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc.</p> <p>Table Size: 225(X)×150(Y) mm or more</p> <p>Drive System: Stepping Motor (X, Y, Z</p>	1



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		product warranty	<p>Axis)</p> <p>Operating Speed: 800 mm/min</p> <p>Software</p> <p>Resolution:0.01mm/step</p> <p>Position accuracy:0.01 to 0.02mm</p> <p>Max Travel Speed (mm/sec)- 58(2.28")</p> <p>Drilling (mm)-0.2 -3.175 (8-125 mil) Maximum Drilling Cycles/Min-50</p> <p>Spindle Motor: DC Motor Type 380 or More</p> <p>Spindle Speed: Adjustable 20,000 rpm and above</p> <p>Tool Chuck Type: Collet</p> <p>Interface: USB or Cable.</p> <p>Control Commands: RML-1, NC Code</p> <p>Power Supply: DC 24V, 2.5A (via AC 100-240V, 50/60 Hz adapter)</p> <p>Power Consumption: Approx. 50W or more.</p>	
3	CO ₂ Laser Cutting Machine	Branded Company Product with at least three years product warranty	<p>Working area: Min 600 X 900 mm or above</p> <p>Laser Type: CO₂ DC Glass Laser Tube/RF Metal Laser Tube.</p> <p>Laser Power: 80/100W.</p> <p>Wave Length: Up to 10.6 Micrometer.</p> <p>Cutting Speed: 30000 mm/min or more.</p> <p>Engraving Speed: 64000 mm/min or more</p> <p>XY Axis: LM Guide Rail or equivalent.</p> <p>Cooling: Air/Water Cooling.</p> <p>Supply Voltage: 230V/415V.</p> <p>Accessories:</p> <p>CO₂ Focus Lens: 1 No</p> <p>Mirror 25 mm: 3 Nos</p> <p>Acetone: 1 Litre</p> <p>Acrylic Sheet: 2 Nos.</p>	1
4	Vinyl Printer	Branded Company Product with at least two years warranty	<p>Dimensions: 50 cm X 15 cm X 15 cm or above.</p> <p>Weight: 15.4 lbs or less.</p> <p>Max cut size using machine mat: 11.5-inch X 23.5 inch or more.</p> <p>Cut speed: up to 14.1 ips.</p>	1
5	3D Scanner	Branded	Technology: Stereo camera structured light	1



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		Company Product with at least three years product warranty	<p>with focusable cameras or equivalent. CPU: Quad-core 64-bit SoC, 1.5 GHz with integrated GPU. RAM: 4GB. Projector: DLP MEMS mirror or equivalent. Camera Sensor: Sony 13 MP or Better. Scan Speed: 4 Seconds or more working. Distance: Effective working distance: 160 mm-1400 mm. Scan speed: 980,000 points/s, up to 14 FPS. 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 X 60 X60 mm. Compatible OS: Any OS supporting a modern web browser.</p>	
6	Lathe Machine cum Milling	Branded Company Product with at least three years product warranty	<p>Centre Width: Up to 400 mm or Better. Height of Centres: 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, Centrally Clamped, 100 mm diameter or</p>	1



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			<p>Better.</p> <p>Runout (Without Chuck): Up to 10 Microns.</p> <p>Sleeve Receiver: MK2, Retractable sleeve with scale.</p> <p>Spindle Speed Range: Between 50 to 2500 rpm.</p> <p>Speed Stages: 6-8.</p> <p>Motor Rating: 550 W or Better, Induction Motor, Single phase 230V.</p> <p>Traverse Cross: Up to 70 mm or Better.</p> <p>Traverse Longitudinal: Up to 300 mm or Better.</p> <p>Weight (Complete): Up to 55 kg or more.</p> <p>Additional Accessories:</p> <p>Splash guard and Chip collecting tray: 1No.</p> <p>Cutter set with tungsten inserts: 2 Nos.</p> <p>Milling Attachment: 1 No.</p> <p>Tungsten Disposable tips ten – piece set: 1 No.</p> <p>Sample Work pieces (Nylon rod, Aluminium rod). Desk top: 1 No.</p>	
7	CNC Router	Branded Company Product with at least three years product warranty	<p>Working Area: Min 1300 X 2500 mm.</p> <p>Z Axis Working Area: 200 or above.</p> <p>Resolution: $\pm 0.03/300$ mm or more.</p> <p>CNC Spindle: 3 KW or more.</p> <p>Lathe Structure: Welding Steel Structure or equivalent.</p> <p>XYZ Structure: Rack Pinion, Ball Screw Linear rails.</p> <p>Max Spindle Speed: Min. 18000 RPM.</p> <p>Table: T-Slot/Vacuum Bed/Water Bed.</p> <p>Repeatability: ± 0.03.</p> <p>Working Mode: Stepper Motor/Servo Motor.</p> <p>Dust Collector: To be included by Vendor.</p> <p>Voltage: AC 220V/415V, 50/60 Hz, 3 Phase.</p>	1
8	Belt and Disk Sanding Machine	Branded Company Product with at least three years product	<p>Motor: 230V 50 Hz.</p> <p>Power: 380W S2 30 min.</p> <p>No-Load Speed: 1450 rpm or more.</p> <p>Belt Size: 100 X 914 mm or Less.</p> <p>Disk Size: 150 mm or Better.</p> <p>Table Tilting Range: $0^{\circ} - 45^{\circ}$.</p> <p>Belt Tilting Range: $0^{\circ} - 90^{\circ}$.</p>	1



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		warranty	Table Size: Up to 190 X 125 mm.	
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 – 1600 SPM. Overall Length: 600 mm (23-5/8 inch).	1
10	Wood Turning Lathe	Branded Company Product with at least three years product warranty	Motor: 230V~ 50 Hz, 550 W, S2: 15 min or above. Max. Disk 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 warranty	Continuous Rating Input: Max. 250W. Capacity: Steel: Min. 13 mm (1/2"). Wood: Min. 24 mm (15/16"). No Load Speed(RPM): 570,890,1300,1900,2670 (50Hz), 690, 1070,1560,2280,3200(60Hz). 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 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 (LXWXH) with Handle: Up to 320 X 120X 195 mm. Weight (Approx): 4.3 kg or Less.	1
13	Computerized Sewing Machine	Branded Company	Motor: 120 W. Max. Sewing Speed: 860 SPM.	1



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		Product with at least three years product warranty	Power: 220 – 240V. Automation Grade: Automatic. Max Stitch Length: 4 mm. 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 Button Hole Styles: 7 LCD Screen Display: Yes. Bed Type: Free Arm/Flatbed, Convertible Bobbin Type, Drop & Sew Bobbin System.	
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	Operating Temperature Range: Min. 45 ⁰ C- 70 ⁰ C. Drying Time Setting: 0-48 Hours or higher. Hot-air Heating: Up to 360 ⁰ 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 X 320 mm or more. Power Supply: AC 220V/50 Hz. Peak Power: 1500 W. Cycle Time: 1- 8 min. or less. Temperature Range: 0 ⁰ C – 280 ⁰ C. Overall Dimensions: Min. 350 X 450 mm. Machine Weight: Up to 25 kg.	1
16	Digital Multimeter	Branded Company Product with at least three years product warranty	Display Count: Up to 4000. DC Voltage Range: Up to 1000 V. AC Voltage Range: Up to 1000 V. DC Voltage Accuracy: ± 0.5% or ± 3 digits, whichever is higher. AC Voltage Accuracy: Within ± 1% + 3 digits. DC Current Measurement: Up to 10 A. AC Current Measurement: Maximum 10 A. DC 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% +	5



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			<p>3 digits.</p> <p>Capacitance Measurement: Up to 1000 μF.</p> <p>Capacitance Accuracy: $\pm 5\%$ or ± 5 digits.</p> <p>Operating Temperature Range: From 0°C up to approximately 40°C.</p> <p>Storage Temperature Range: Between -30°C and 60°C.</p> <p>Overall Dimensions (H X W X L): Approximately 183 X 91 X 49.5 mm.</p> <p>Unit Weight: Around 455 grams.</p> <p>Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 Standards, Suitable for CAT III 600 V and CAT II 1000 V environments with Pollution Degree 2 Classification.</p>	
17	MSO 100 MHz	Branded Company Product with at least three years product warranty	<p>Band Width: Up to 100 MHz.</p> <p>Analog Channels: 4 or more.</p> <p>Real-Time Sampling Rate: Maximum 1 GSa/s per Channel.</p> <p>Memory Depth: 10 Mpts per Channel.</p> <p>Wave form update Rate: Approximately 120,000 wfms/s.</p> <p>Vertical Resolution: 8 bits.</p> <p>Vertical Scale: Ranging from 1 mV/div to 10 V/div.</p> <p>Horizontal Scale: Spanning 1 ns/div to 100 s/div.</p> <p>Spectrum Analyzer Frequency Range: DC to 500 MHz.</p> <p>FFT Points: Up to 1M points for enhanced frequency domain resolution.</p> <p>Wave form math Functions: Includes addition, subtraction, multiplication, division, minimum, maximum, root, square, absolute, inverse, derivative, integral and low-pass filter.</p> <p>Trigger Types: Edge, Pulse width, Video, Pulse runt, Rise & Fall (Slope), Alternate, Timeout, Event-Delay, Time-Delay and Bus.</p> <p>Arbitrary Waveform Generator (AWG): Dual-channel, 25 MHz, supporting various wave forms such as sine, square, pulse, ramp, DC, noise, sinc, Gaussian, Lorentz,</p>	1



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			<p>exponential rise/fall, haversine and cardiac. AWG Sample Rate: 200 MSa/s. AWG Vertical Resolution: 14 bits. Display: 8-inch WVGA TFT LCD (800 X 480 pixels). Data Logging Capability: Up to 1000 hours. Segmented Memory: Supports Up to 29,000 segments for efficient waveform storage and retrieval. Connectivity: USB 2.0 (host and device), Ethernet (RJ45) and Go-NoGo BNC. Dimensions (WXHxD): 380X200X125 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 600 V and CAT II 1000 V environments with Pollution Degree 2 classification.</p>	
18	Digital Oscilloscope	Branded Company Product with at least three years product warranty	<p>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 800X480 resolution. Time Base Range: From 5 ns/div to 100 s/div, user-adjustable. Vertical Resolution: 8-bit digital resolution. Trigger Modes: Automatic, Normal and Signal-dependent triggering. Maximum Input Voltage: 300 Vrms (within safety limits). Input Sensitivity: Within the range of 1 mV/div to 10 V/div. Input Coupling Options: Selectable among AC, DC and Ground. Trigger Coupling Modes: Configurable as AC, DC, High-pass or Low-pass.</p>	1



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			<p>Physical Dimensions: Approximately 350X200X120 mm or above.</p> <p>Unit Weight: 2.5 kg or above.</p> <p>Input Impedance: Nominal 1 MΩ/16 pF.</p> <p>Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering and AUTOSET configuration for display scaling (time base/ gain).</p> <p>Protocol Decoding Support: Capable of analyzing 12C, SPI, UART, CAN and LIN communication protocols.</p> <p>Standard Accessories: Includes mains power cable, user manual(digital format) and one GTL-16E probe per input channel.</p>	
19	Power Supply	Branded Company Product with at least three years product warranty	<p>Output Configuration: 4-channel design with independent electrical isolation across all outputs.</p> <p>Channel Output Ranges:</p> <ul style="list-style-type: none"> • 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. <p>Constant Voltage Operating Mode Line Regulation: $\leq 0.01\% +3 \text{ mV}$. (approximate value within rated voltage range) Load Regulation: $\leq 0.01\% +3 \text{ mV}$ (across rated load variation). Ripple & Noise: $\leq 1 \text{ mVrms}$ across full bandwidth.</p> <p>Constant Current Operating Mode Line Regulation: $\leq 0.2\% +3 \text{ mA}$ Load Regulation: $\leq 0.2\% +3 \text{ mA}$ Ripple Current: $\leq 3 \text{ mArms}$ (typical).</p> <p>Safety & Operational Features Output Control: Independent output ON/OFF Switching functionality is required. Voltage Resolution: Approximately 100 mV</p>	1



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			<p>(*1)/ Current Resolution: Approximately 10 mA (*1).</p> <p>Display Parameters Display Units: Four separate displays required for individual channel status visualization. Display Type: 4.3-inch LCD (color or monochrome as applicable).</p> <p>Functional Features Tracking Operation: Supported (required for synchronizing output behavior). Auto Series/Parallel: Supported (automatic internal reconfiguration required).</p> <p>Power Requirements Supply Input: 230V AC $\pm 10\%$, 50 Hz.</p> <p>Mechanical Specifications Maximum Dimensions (W X H X D): Within 200 mm X 100 mm X 200 mm. Maximum Weight: 10kg or less.</p>	
20	Function Generator	Branded Company Product with at least three years product warranty	<p>Output Function: The equipment shall provide output waveforms including sine, square, triangle and TTL signals as required. Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz. For triangle waveform: approximately 0.1 Hz up to 1 MHz. Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz. Frequency Stability: The frequency stability shall be within ± 20 ppm (parts per million). Frequency Accuracy: The frequency accuracy shall be maintained within ± 20 ppm. Frequency Aging: Frequency aging shall not exceed ± 5 ppm per annum. Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50Ω</p>	1



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			<p>load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within $\pm 20\%$ at maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 50Ω with a tolerance of $\pm 10\%$.</p> <p>Attenuator: A single-step attenuator of $-40\text{ dB} \pm 1\text{ dB}$ shall be provided.</p> <p>Display: A 6-digit LED display shall be incorporated for parameter indication.</p> <p>Output control: Output shall be controlled via an ON/OFF selector switch.</p> <p>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.</p> <p>Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0°C to 40°C.</p> <p>Dimensions: Maximum dimensions shall not exceed 255 mm (W) X 95 mm (H) X 295 mm (D).</p> <p>Weight: Maximum device weight shall be within 2.5 kg.</p>	
21	Bench Top Multimeter	Branded Company Product with at least three years product warranty	<p>DC Voltage Range: 500 mV to 1000 V across 5 ranges.</p> <p>Accuracy: $\pm (0.03\% \text{ rdg} + 4 \text{ digits})$.</p> <p>Input Impedance: $10\text{ M}\Omega$.</p> <p>AC Voltage (True RMS) Range: 500 mV to 1000 V across 5 ranges.</p> <p>Accuracy: $\pm (0.5\% - 5\% \text{ rdg} + \text{digits})$ depending on frequency and range.</p> <p>Input Impedance: $10\text{ M}\Omega$.</p> <p>DC Current: Range: 500 μA to 20 A across 6 ranges.</p> <p>Accuracy: $\pm (0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})$ depending on range.</p> <p>AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges.</p> <p>Accuracy: $\pm (0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency.</p> <p>Resistance: Range: 500 Ω to 20 $\text{M}\Omega$ across 6 ranges.</p> <p>Accuracy: $\pm (0.1\% - 0.3\% \text{ rdg} + \text{digits})$</p>	1



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			<p>depending on range.</p> <p>Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V.</p> <p>Capacitance: Range: 5 nF to 50 μF.</p> <p>Accuracy: \pm (2% rdg + 4 digits).</p> <p>Frequency: Input level varies by range: Functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold.</p> <p>Continuity Beep: Threshold $<5\Omega$.</p> <p>Display: Dual 7- Segment LED, 0.4" and 0.5".</p> <p>Power Source: AC 100/120/230 V $\pm 10\%$, 50/60 Hz.</p> <p>Dimensions & Weight: Approximately 251 X 91 X 291 mm: 2.6 kg..</p>	
22	Non-Contact Voltage Tester	Branded Company Product with at least three years product warranty	<p>Function: Non-contact AC voltage detection tester.</p> <p>Voltage detection Range: Approximately 90V to 1000V AC.</p> <p>Detection Method: Capacitive, with visual and audible indication.</p> <p>Sensitivity: Adjustable sensitivity for different voltage ranges.</p> <p>Response Time: Instantaneous detection within standard operating conditions.</p> <p>Indicators: Bright LED indicators and audible beep for voltage presence.</p> <p>Operating Environment: Suitable for use in ambient temperatures from 0⁰ C to 40⁰ C.</p> <p>Power Source: Powered by standard batteries (typically 2 X AAA or equivalent).</p> <p>Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards.</p> <p>Dimensions: Compact, handheld design suitable for field use (approx. 150 mm x 30 mm 25 mm).</p> <p>Weight: Light weight, approximately 150 g for ease of portability.</p>	5
23	LCR Meter	Branded Company Product with at least three years product	<p>Display: Approximately 2.8" TFT touch LCD Screen.</p> <p>Resolution: 25000 or above counts resolution on both primary and secondary displays.</p> <p>Basic Accuracy: Within $\pm 0.2\%$ under standard conditions.</p> <p>Test Frequencies: Six or Eight selectable</p>	1



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		warranty	<p>frequencies depending on model variant.</p> <p>Measurement Combinations: Up to 15 different measurement combinations available.</p> <p>Test Level: Selectable AC test levels approximately 0.3V, 0.7V and 1V rms; DC test level selectable at $\pm 1V$.</p> <p>Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).</p> <p>Auto LCR Mode: Automatic identification and measurement of component types within supported ranges.</p> <p>Data Hold: Feature available to hold measured data on display.</p> <p>Interface: USB Virtual COM portal provided for remote communication capabilities.</p> <p>Software: Data logging software available for data capture and analysis.</p>	
24	Soldering Station	Branded Company Product with at least three years product warranty	<p>Power Rating: Approximately 60 W maximum output power.</p> <p>Temperature Range: Adjustable from approximately 200⁰ C up to 480⁰C.</p> <p>Temperature Stability: Within $\pm 2^0$ C under normal operating conditions.</p> <p>Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance.</p> <p>Display: Digital or Analog temperature display (depending on variant) for precise temperature control.</p> <p>Temperature Control: Adjustable via knob or digital interface with fine resolution.</p> <p>Power Supply: AC 220V $\pm 10\%$, 50/60 Hz.</p> <p>Safety Features: Thermal cut off and overload protection within required standards.</p> <p>Dimensions: Compact design with 100 mm x 100 mm x 90 mm (W x H x D) or above.</p> <p>Weight: Approximately 1.5 kg for ease of portability and bench use.</p>	3
25	Digital	Branded	Specification:	1



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	Microscope	Company Product with at least three years product warranty	Magnification: 1600X. Light Source: 8 LED Lights. Resolution: 1920 x 1080, 640*480. Pixel: 30W. Focal Length: 3-40 mm Manual adjustment Support Android 4.2 or above/windows/Mac System.	
26	Soldering Rework Station	Branded Company Product with at least three years product warranty	Soldering Iron Power: Up to approximately 60W output power with temperature adjustable within approximately 200 ⁰ C to 480 ⁰ C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within $\pm 2^{\circ}\text{C}$. Hot Air Blower Power: Up to approximately 500W output power with temperature adjustable within approximately 200 ⁰ C to 450 ⁰ 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 15V up to 2A maximum current plus 5V 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 x 180 mm x 140 mm (W x H x D). Weight: Approximately 3.5 kg. Power Source: AC 220V $\pm 10\%$, 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 ⁰ C to 40 ⁰ C.	1
27	Hand Drill Machine	Branded Company Product	Rated Input Power: Approximately 500W or above maximum power consumption. Bit Holder: Standard $\frac{1}{2}$ " – 20 UNF thread	2



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		with at least three years product warranty	<p>type.</p> <p>No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3000 rpm.</p> <p>Power Output: Approximately 300W continuous output power.</p> <p>Weight: Approximately 1.7 kg total device weight.</p> <p>Impact Rate at No-Load Speed: Variable from 0 up to approximately 48000 bpm.</p> <p>Rated Torque: Approximately 1.4 Nm maximum torque output.</p> <p>Drill Spindle Connecting Thread: Standard ½”-20 UNF thread.</p> <p>Chuck Capacity(Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.</p>	
28	Cordless Drill	Branded Company Product with at least three years product warranty	<p>Torque (soft/hard/max): Min. 21/50/-Nm.</p> <p>No-Load Speed (1st Gear/2nd Gear): Min. 0-500/0-1900 rpm.</p> <p>Weight incl. battery: 1.3 kg or less.</p> <p>Max. Impact Rate: 27000 bpm.</p> <p>Battery Type: Lithium-ion or equivalent.</p> <p>Chuck Capacity, min/max: 1.5/13 mm.</p> <p>Weight excl. Battery: 0.99 kg.</p> <p>Torque Settings: 20+2 or better.</p>	2
29	Jig Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 500W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230V AC supply.</p> <p>Saw Stroke Length: Approximately 20 mm stroke length.</p> <p>Stroke Rate at No Load: Adjustable within approximately 800 to 3100 spm (strokes per minute).</p> <p>Weight: Approximately 2.08 kg total weight.</p> <p>Bevel Angle: Adjustable within approximately -45° to 45° range.</p>	1
30	Miter Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1750 W maximum power consumption.</p> <p>Saw Blade Diameter: Approximately 254 mm nominal diameter.</p> <p>Miter Setting: Adjustable up to approximately 47° left and 52° right.</p> <p>Bevel Setting: Adjustable up to approximately 45° left and 0° right.</p>	1



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			<p>Saw Blade Bore Diameter: Approximately 25.4 mm standard bore.</p> <p>Cutting Capacity at 0°: Approximately 90 mm x 130 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Miter: Approximately 90 mm x 91 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Bevel: Approximately 60 mm X 130 mm maximum cross-section.</p> <p>Tool Dimensions (W x L x H): Approximately 477 mm x 559 mm x 567 mm.</p> <p>No-Load Speed: Fixed at approximately 5000 rpm.</p> <p>Weight: Approximately 11.1 kg.</p>	
31	Hot Air Gun	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1800W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230V AC supply.</p> <p>Weight: Approximately 0.75 kg.</p> <p>Working Temperature Range: Adjustable within approximately 60°C to 550°C.</p> <p>Heat-up Time: Approximately 1 Second to reach target temperature.</p> <p>Air Flow: Adjustable within approximately 350 to 550 liters per minute.</p> <p>Air Flow Control: Three selectable airflow settings.</p>	2
32	Table Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Max. 1800W.</p> <p>Incline Setting: 45° L/ 0° R.</p> <p>Table Size: Up to 555 x 555 mm.</p> <p>Saw Blade Diameter: 254 mm.</p> <p>Cutting Height 90°: 80 mm.</p> <p>Cutting Height 45°: 55 mm.</p> <p>Saw Blade Bore Diameter: 30 mm.</p> <p>Weight: 24.4 kg or less.</p> <p>Max Cutting Capacity on the Right: 545 mm.</p> <p>No-Load Speed: 4300 rpm.</p> <p>Cutting Height 90°: 80 mm.</p> <p>Cutting Height 45°: 55 mm.</p>	1
33	Bench Grinder	Branded Company Product with at	<p>Grinding Wheel Diameter: Min. 150 mm.</p> <p>Rated Input Power: 350W or more.</p> <p>Grinding Wheel Widths: 20 mm or more.</p> <p>No-Load Speed: Up to 3000 rpm.</p>	1



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		least three years product warranty	Grinding Wheel Bore: 20 mm/2 cm Grit 24, 60 or more. Weight: 10 kg or less.	
34	Angle Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 670W maximum power consumption. No-Load Speed: Approximately 11000 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. 300W power consumption. No-Load Speed: Up to 28000 rpm. Voltage, Electrical: Nominal 230V 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 1400W 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, 5200 rpm. Weight: Around 4.1 kg.	1
37	Blower	Branded Company Product with at least three years product warranty	Rated Input Power: Max. 650W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230V 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	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 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	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1100W maximum power consumption. Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 liters' capacity. Voltage, Electrical: Nominal 230V AC supply. Container Volume (Gross): Approximately 15 liters' total volume. Container Volume (Net, Water): About 8 liters' capacity for water. Filter Surface Area: Around 2300 cm ² 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 280W 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 15000 and 24000 orbits per minute (opm).	1



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			Eccentricity: Approximately 1.3 mm.	
41	Planer	Branded Company Product with at least three years product warranty	Rate Input Power: Not exceeding 710W under nominal operating conditions. Planing Width: Approximately 82 mm effective width capacity. Planing Depth: Within the range of up to 2.6 mm maximum depth per pass. Weight: Circa 2.8 kg total unit mass. Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm. No-Load Speed: Operating speed typically around 18000 rpm.	1
42	Cordless Vacuum Cleaner with Starter Kit	Branded Company Product with at least three years product warranty	Battery Voltage: Rated at approximately 18.0V 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 cm ² 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(18V 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 175W within nominal voltage range. Voltage: Operates within 220 to 240V 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 5000 up to 35000 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/s ² measured vibration.	2
44	Rubber Grip	Very	Depth of Throat: Approximately 98 mm	2



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	Hacksaw	Good Quality	(3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	
45	Hacksaw Mini	Very Good Quality	Blade Length: Approximately 10 inches' nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Very Good Quality	Weight: Approximately 8 oz (220 grams) nominal weight. Dimensions: Around 27.8 cm x 12.4 cm x 3.6 cm (L x W x H) overall size.	2
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110-gram nominal weight. Dimensions: Around 32.6 cm x 10 cm x 2 cm (L x W x H) overall measurements.	2
48	Rubber Mallet	Very Good Quality	Weight: Approximately 450 grams' nominal weight. Dimensions: Around 33.6 cm x 9.6 cm x 6.2 cm (L x W x H) overall size.	2
49	Ring Spanner Set 12 Pcs	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 12 Pcs	Very Good Quality	Weight: Approximately 1.74 kg nominal weight. Quantity: 12 Pcs/Set. Size: 6 mm – 32 mm overall dimensions.	1
51	Combination Spanner Set 8 Pcs	Very Good Quality	Weight: Approximately 649 grams nominal weight. Quantity: 8 Pcs/Set.	1
52	Allen Key Set 10 Pcs	Very Good Quality	Hex Key Size: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 mm. Quantity: 10 Pcs/Set.	2
53	Allen Key Set 12 Pcs	Very Good Quality	Ball Key Size: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", > 5/32", 3/16", 7/32", 1/4", 5/16", 3/8". Quantity: 12 Pcs/Set.	2
54	Combination Plier	Very Good Quality	Weight: Approx. 422 grams nominal weight. Size: 8"/200 mm nominal.	2
55	Long Nose Plier	Very Good	Weight: Approx. 399 grams' nominal weight. Size: 180 mm / 6" nominal.	2



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		Quality		
56	Circlip Straight 5"	Very Good Quality	Weight: Approx. 399 grams' nominal weight. Size: 130 mm/ 5" nominal.	2
57	Circlip bent	Very Good Quality	Weight: Approx. 399 grams' nominal weight. Size: 130 mm/ 5" nominal.	2
58	Diagonal Cutter	Very Good Quality	Weight: Approx. 239 grams nominal weight. Size: 180 mm nominal.	2
59	Wire Stripper	Very Good Quality	Weight: Approx. 281 grams nominal weight. Size: 130 mm 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	16 Pcs Screw Driver Set	Very Good Quality	Pieces per set: 16 Pcs	1
66	6 Pcs Precision Screw Driver Set	Very Good Quality	Pieces Per Set: 16 Pcs	2
67	Max Steel Snip Cutter	Very Good Quality	Length: 250 mm	2
68	PVC Pipe Cutter	Very Good Quality	Length: 42 mm	2
69	Hot Glue Gun	Very Good Quality	Power: 40 W.	4
70	Small File Set	Very Good	Length: 160 mm	2



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		Quality		
71	Big File Set	Very Good Quality	Length: 200 mm	2
72	Chisel Set	Very Good Quality	Weight: 340 grams	2
73	Punch Set	Very Good Quality	Weight: 390 grams	2
74	Bench Vise	Very Good Quality	Base Type: Fixed. Size: 2-3 ½" nominal. Jaw Width: 60 mm	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. Weight: ~ 1.3 kg nominal weight. Size(mm): 205 x 115 x 55 overall.	2
77	Baby Wise	Very Good Quality	Vice Type: Bench. Size: 2" nominal. Jaw Width: 50 mm.	2
78	Ratchet Set	Very Good Quality	Vice Type: Bench Size: 2" nominal. Jaw: 50 mm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Caliper. Measurement Range: 0-150 mm/0-6". Resolution: 0.01 mm.	2
81	Micrometer	Very Good Quality	Resolution: 0.001 mm/ 0.00005". Measurement Range: 0-25 mm/0-1"	1
82	Steel Rule 300 mm	Very Good Quality	Product Type: Steel Rule. Scale Size: 12" / 300 mm. Material: Stainless Steel	5
83	Steel Rule 600 mm	Very Good Quality	Product Type: Steel Rule. Scale Size: 24" / 600 mm. Material: Stainless Steel	5
84	Engineering Square	Very Good	Size: 150 x 80 mm nominal. Material: Carbon Steel.	2



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		Quality		
85	Meter Tape 30 m	Very Good Quality	Length: 30 m.	1
86	Measuring Tape 3 m	Very Good Quality	Length: 3 m	3
87	Measuring Tape 5 m	Very Good Quality	Length: 5 m	3
88	Spirit Level	Very Good Quality	Vials: 3 Accuracy: 0.5 mm/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
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: 20 L 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. Dimensions(mm): 455 x 252 x 320.	1



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			Power Out: 700 W or less.	
97	Refrigerator	Branded Company Product with at least three years product warranty	Capacity: 183 L or more. Annual Energy Consumption: 148 kWh/Year or less. Refrigerator Fresh Food Capacity: 165 L or more. Freezer Capacity: Min. 18 L. Bottle Count: 5 or more. Noise Level: 40 dB.or less. Installation Type: Free Standing	1
98	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx. 75 inch (190 cm) Up to. Resolution: 4 KUHD or higher. Brightness: Min. 350 nits: Typ 400 nits Approx. Contrast Ratio: Typ 1200: 1 Up to Response Time: Approx 8 ms. Viewing Angle: Approx. 178 Degrees wide. Working Frequency: 1.5 GHz. Nominal. RAM: 4 GB or more. Internal Storage: 32 GB Min. OS: Android based. HDMI: 3 Ports. USB: 2 Ports. Sensing Type: Infrared Touch Frame. Surface Protection: 4 mm Toughened Glass or Equivalent. Infrared Touch Points: 20 Approx. Voltage: DC +5V \pm 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 15 Pin: 1 Port. Digital Input: HDMI: 1 Port. Projection Lens: Type: No Optical Zoom/Focus (Manual) Nominal.	1



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			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.	
100	Printer	Branded Company Product with at least three years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dimensions (mm): 409 x 398.5 x 267 Approx. Weight: 9.7 kg Nominal. Print Speed: Up to 30 ppm (A4 Size) Approx. Warranty: 1 year On-Site. Print Resolution: 600 x 600 dpi, HQ1200(2400 x 600 dpi) Quality Approx. 2 Sided-Duplex-Paper Type: Plain, Thin, Recycled Approx. 2 Sided-Duplex-Paper Size: A4. Paper Handling Tray: #1. Max. Capacity: Up to 250 Sheets (80g/m ²) Approx. Paper Output: Up to 100 Sheets (80g/m ²) Face Down Tray; One Sheet Face Up Tray Approx. Copy-Colour/Mono: Yes/Yes. Multiple Copies: Sorts/Stacks Up to 99 Pages Approx. Enlarge/Reduce: 25% - 400% (In 1% Steps) Approx. Copy Resolution: 600 x 600 dpi. 2 Sided-Duplex-Copy Paper Type: Plain, Thin, Recycled. 2 Sided-Duplex-Copy Paper Size: A4. Scan-Resolution Interpolated: Up to 19200 x 19200 dpi Approx. Scan-Resolution Glass: Up to 600 x 2400 dpi Approx. Connectivity: Hi-Speed USB 2.0. Display Type: 16 Chars x 2 Lines. Memory Capacity: 32 MB Approx. Power Source: 220-240V AC 50/60 Hz. Power Consumption-Ready: Approx. 60W. Power Consumption-Sleep: Approx. 6.6W. Power Consumption-Off: Approx. 0.08W. Noise Level: 50 dB(A) Approx.	1



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CANTONMENT, BALLARI -583104
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101	Desktop	Branded Company Product with at least three years product warranty	CPU: INTEL, CORE I7- 12 th GEN or Higher. RAM: 8GB +512 GB SSD or more. Connectivity: LAN + WIFI + BLUETOOTH+KEYMOUSE. Display: 20" DESKTOP MONITOR.	5
102	3D Printer Filament	Very Good Quality	Weight kg: 1 Approx. Melt Flow Index: 2 (190 ⁰ C/2.16kg) Nominal. Filament Length: 330 m Approx. Dim Accuracy: +/- 0.1 mm Approx. Roundness Accuracy: +/- 0.5 mm Approx. Spool Inner Dia: 55 mm Nominal. Spool Outer Dia: 200 mm Approx. Spool Weight: 300 g Nominal. Spool Width: 65 mm Approx.	10
103	Acrylic Sheet 3 mm, 4ft x 4ft	Very Good Quality		20
104	Acrylic Sheet 4 mm, 4ft x 4ft	Very Good Quality		20
105	Acrylic Sheet 5 mm, 4ft x 4ft	Very Good Quality		20
106	Foam Sheet 8 mm, 4ft x 4ft.	Very Good Quality		2
107	Foam Sheet 10 mm, 4ft x 4ft.	Very Good Quality		1
108	Foam Sheet 12 mm, 4ft x 4ft.	Very Good Quality		1
109	Foam Sheet 15 mm, 4ft x 4ft.	Very Good Quality		1
110	Ply Board 5mm, 2ftx4ft.	Very Good Quality		12
111	Nylon Rod 10mm, 1m	Very Good Quality		5
112	Nuts (3mm,	Very		1



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	4mm, 5mm, 6mm, 8mm, 10mm, 12mm) Pack of 100	Good Quality		
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 2 kg	Very Good Quality		1
119	2 Way Tape	Very Good Quality		10
120	PVC Pipe, 0.75", 10ft	Very Good Quality		10
121	PVC Pipe, 1", 10ft	Very Good Quality		10
122	PVC Pipe, 1.5", 10ft	Very Good Quality		10
123	PVC Pipe, 2", 10ft	Very Good Quality		10
124	Aluminium Channels (L, C, Box, Strip length	Very Good Quality		2



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	12ft)			
125	PCB Drill Bit 0.4 mm.	Very Good Quality		10
126	PCB Drill Bit 0.8 mm.	Very Good Quality		10
127	PCB Drill Bit 1 mm.	Very Good Quality		10
128	Drill Bit 4 mm.	Very Good Quality		10
129	Drill Bit 5 mm.	Very Good Quality		10
130	Drill Bit 6 mm.	Very Good Quality		10
131	Arduino UNO R3	Very Good Quality		5
132	Arduino NANO	Very Good Quality		5
133	Arduino Mega	Very Good Quality		3
134	Raspberry Pi Model 4B, 4GB.	Very Good Quality		3
135	ESP 8266 Node MCU	Very Good Quality		2
136	ESP32 Development Board	Very Good Quality		2
137	Beaglebone blu	Very Good Quality		1
138	Beaglebonne Black	Very Good Quality		1
139	Voltage Regulator	Very Good		2



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	Module	Quality		
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	4x4 Matrix Keypad	Very Good Quality		2
149	Joy Stick Module	Very Good Quality		2
150	Active Buzzer (BIG)	Very Good Quality		2
151	Active Buzzer (SMALL)	Very Good Quality		2
152	Motor Driver	Very Good Quality		2
153	Sound Playback Module	Very Good Quality		2
154	BO Motors	Very Good		10



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		Quality		
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		2



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		Quality		
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		2
183	Servo Motor 360 rotation.	Very Good Quality		10
184	Servo Motor 180 rotation.	Very Good		10



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		Quality		
185	Metal Gear Servo Motor (180 ⁰ Rotation)	Very Good Quality		10
186	Solder Wire 100 gram	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	Copper Clad Board Single Side	Very Good Quality		10
191	Copper Clad Board Double Side	Very Good Quality		10
192	Male to Male Breadboard Jumper	Very Good Quality		10
193	Female to Female Breadboard Jumper	Very Good Quality		10
194	Male to Female Breadboard Jumper	Very Good Quality		10



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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 principalrymec@gmail.com and also to be submitted in a separate sealed envelope to:

The Principal
Rao Bahadur Y Mahabaleswarappa Engineering College.
Kolagal Road, Cantonment, Ballari -583104
Karnataka

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)



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Annexure-1

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 also through e-mail.

I. TECHNICAL BID FORMAT

Covering Letter (on bidder's letterhead)

To: The Principal, Rao Bahadur Y Mahabaleswarappa Engineering College, Kolagal Road, Cantonment, Ballari -583104, Karnataka

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)



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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, Rao Bahadur Y Mahabaleswarappa Engineering College, Kolagal Road, Cantonment, Ballari -583104, Karnataka

Subject: Submission of Commercial Bid for [Tender Name] Price Bid Format (to be filled as per below template):

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

Note:

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

Authorized Signatory:

Name:

Designation:

Signature with Seal:

Date:



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Annexure-2

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 Security declaration		
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:



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Annexure-3

Declaration of Non-Blacklisting

(To be submitted on the Rs 500/-stamp paper and signed by the authorized signatory)

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**.

Authorized Signatory:

Name:

Designation:

Company Seal:

Date:



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Annexure-4

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:
 - 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, Rao Bahadur Y Mahabaleswarappa Engineering College Ballari, shall be at liberty to terminate the contract and forfeit our security deposit/performance guarantee without notice.

Authorized Signatory:

Name:

Designation:

Company Seal:

Date:



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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: