

Ref: MITE/Admn/AIL-Tender/2025-26/6811

Date: 14/08/2025

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 <https://mite.ac.in/aicte-idea-lab/#tender-notice>
- ❖ 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 Mangalore.

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 Mangalore Institute of Technology & Engineering, Badaga Mijar, Moodabidri, D K district, Karnataka-574225

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 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: Cartesian.</p> <p>Temperature Range: Hot end: Up to 300°C or above Heatbed: Upto 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 1/10ratio,</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. Supported</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 system700X700X700mm or above. Fully enclosed Machine.</p>	1
2			<p>Cuttable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc</p>	

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	PCB Milling Machine	Branded Company Product with at least three years product warranty	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 rpm and above Tool Chuck Type: Collet Interface: USB or cable Control Commands: RML-1, NC code Power Supply: DC24V,2.5A(via AC100–240V, 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 600x900mm or above Laser Type: CO2DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Upto 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415V	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			Accessories: CO2 Focus Lens: 1No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 No s	
4	Vinyl Printer	Branded Company Product with at least Two years Warranty	Dimensions: 50cmx15cmx15cm or above Weight: 15.4 lbs or less Max cut size using machine mat: 11.5inch x 23.5 inch or more Cut speed: upto 14.1ips	1
5	3DScanner	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, 1.5GHz 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: 160mm-1400mm Scan Speed : 980,000 points/s, upto 14FPS Align Modes : Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety: Eye-safe Texture Scan : Yes Interface : USB2.0 or above Outdoor Scanning : Yes Output Formats : OBJ; STL; PLY; P3; 3MF	1

SL. No	Equipment	Preferred brands if any	Specifications	Qty
			Scanning Environment: Indoor and outdoor (shaded) Texture /Color Scanning: Yes Minimum Capturable Feature Size: 0.2mm or less Scanner Weight: 500grams or less Scanner Dimensions: upto 240×60×60mm Compatible OS: Any OS supporting a modern web browser	
6	Lathe Machine cum milling	Branded Company Product with at least three years product warranty	Centre Width: Upto 400mm or better Height of Centers: Up to 88 mm Maximum Work piece Diameter: Upto 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: Upto 22mm or better Spindle Concentricity: Upto 5microns or better Chuck: 3-jaw chuck as per DIN 6386, centrally clamped, 100 mm diameter or better Run Out (without Chuck): Upto 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: Upto 300 mm or better	1

SL. No	Equipment	Preferred brands if any	Specifications	Qty
			Weight(Complete):Upto55kg or more Additional Accessories: Splash guard and chip collecting tray: 1No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tipsten-piece set: 1No. Sample work pieces (Nylon Rod, Aluminium Rod) Desktop: 1No.	
7	CNC Router	Branded Company Product with at least three years product warranty	WorkingArea: Min1300x2500mm Z Axis Working Area: 200 or above Resolution: $\pm 0.03/300$ mm or more CNC Spindle: 3KW or more Lathe Structure: Welding Steel Structure or equivalent XYZ Structure: Rack Pinion, Ball Screw Linear Rails Max Spindle Speed : Min 18000RPM Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ± 0.03 Working Mode: Stepper Motor/Servo Motor Dust Collector : To be included by Vendor Voltage: AC 220V/415V, 50/60 Hz, 3 Phase	1
8	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	Motor: 230V 50Hz Power: 380W No-load Speed: 1450 rpm or more Belt Size: 100x914mm or less Disc Size: 150 mm or better Table Tilting Range: 0°-45° Belt Tilting Range: 0°-90° Table Size: upto190x125mm	1
9		Branded Company Product with	Power input: 50Watt Thickness of Cut: 50mm(2inch) Throat:	

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	Scroll Saw	at least three years product warranty	406 mm (16 inch) Length of Stroke: 18mm(11/16inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600mm(23-5/8inch)	1
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: 5speeds such as1600/2600/3200 RPM etc Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850m	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): 570,890,1,300,1,900, 2,670 (50Hz),690,1,070,1,560,2,280, 3,200(60Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75m(5.7ft) Additional Accessories: BenchVise:1No. 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,10min cycle): 120A@100%,150A@60%,200A@35% Supply Voltage: 240V+10%, -15%,1Phase, 50/60 Hz Open Circuit Voltage: 55V DC ±5V Welding Current Range: 15–200AmpsDC Insulation Class: F Type Ingress Protection: IP21 Dimensions(L×W×H)with Handle: upto 320×120×195 mm WeightApprox: 4.3kgorless	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
13	Computerized Sewing Machine	Branded Company Product with at least three years product warranty	Motor: 120W MaxSewingSpeed: 860RPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight: 7.6 kg Number of Stitches: 120 Size/Dimension: 50.8cmx29.464cmx40.64 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	1
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	OperatingTemperatureRange: Min 45°C– 70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: upto 360° circulation Moving Speed: 300 mm/s or more Power Rating: 160 W ShippingWeight: 2.5kg	1
15	Reflow Oven	Branded Company Product with at least three years product warranty	No .of Waves: 7orhigher 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: min350×450mm Machine Weight: upto 25 kg	1
16			Display Count: Upto 4000 DC Voltage Range: Upto1000V	

SL. No	Equipment	Preferred brands if any	Specifications	Qty
	Digital multimeter	Branded Company Product with at least three years product warranty	AC Voltage Range: Upto 1000V DC Voltage Accuracy: $\pm 0.5\%$ or ± 3 digits, whichever is higher AC Voltage Accuracy: Within $\pm 1\% + 3$ digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10A DC Current Accuracy: $\pm 1.5\% + 3$ digits (approximate) AC Current Accuracy: $\pm 1.5\% + 3$ digits (typical) Resistance Measurement: Up to 40 M Ω Resistance Accuracy: Estimated at $\pm 1.5\% + 3$ digits Capacitance Measurement: Up to 1000 μ F Capacitance Accuracy: $\pm 5\%$ 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 100MHz	Branded Company Product with at least three years	Timeout, Event-Delay, Time-Delay, and Bus Arbitrary Wave form Generator (AWG): Dual-channel, 25 MHz, supporting various waveforms such as sine, square, pulse, ramp, DC, noise, sinc,	

SL. No	Equipment	Preferred brands if any	Specifications	Qty
		product warranty	Gaussian, Lorentz, exponential rise/fall, haversine, and cardiac AWG Sample Rate: 200 MSa/s AWG Vertical Resolution: 14bits Display: 8-inch WVGATFTLCD(800×480 pixels) Data Logging Capability: Up to 1000 hours Segmented Memory: Supports upto 29,000 segments for efficient wave form storage and retrieval Connectivity: USB2.0(host and device), Ethernet (RJ45), and Go-No Go BNC Dimensions(W×H×D): 380×200×125mm or above Weight: 2Kgs or above Safety Compliance: Conforms to IEC61010-1 and IEC 61010-2-030 standards, suitable for CATIII 600V and CATII 1000V environments with Pollution Degree 2 classification	
18	Digital oscilloscope	Branded Company Product with a t least three years product warranty	Number of Channels: Upto 2 independent analog inputs Memory Record Length: Upto 10Mpts for extended waveform capture Band width Limiting: Selectable 20MHz bandwidth filter Sampling Rate: Maximum of 1GSa/s real-time equivalent per channel Rise Time: ≤3.5ns depending on probe and settings Display: 7" TFT color LCD with 800×480 resolution Time Base Range: From 5ns/div to 100s/div, user-adjustable Vertical Resolution: 8-bit digital resolution Trigger Modes: Automatic,	1

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			<p>Normal, and Signal-dependent triggering</p> <p>Maximum Input Voltage: 300Vrms (within safety limits)</p> <p>Input Sensitivity: Within the range of 1 mV/div to 10 V/div</p> <p>Input Coupling Options: Selectable among AC, DC, and Ground</p> <p>Trigger Coupling Modes: Configurable as AC, DC, High-pass, or Low-pass</p> <p>Physical Dimensions: Approximately 350 × 200 × 120 mm or above</p> <p>Unit Weight: 2.5kg or above</p> <p>Input Impedance: Nominal 1MΩ // 16pF</p> <p>Measurement Capabilities: Equipped for Automatic parameter extraction, background</p>	
19		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</p> <p>Line Regulation: $\leq 0.01\% + 3$ mV (approximate value within rated voltage range)</p> <p>Load</p>	

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	Power supply		<p>Regulation: $\leq 0.01\% + 3\text{mV}$ (across rated load variation)</p> <p>Ripple & Noise: $\leq 1\text{mV rms}$ across full bandwidth</p> <p>Constant Current Operating Mode Line Regulation: $\leq 0.2\% + 3\text{mA}$</p> <p>Load Regulation: $\leq 0.2\% + 3\text{mA}$ Ripple</p> <p>Current: $\leq 3\text{Arms}$ (typical)</p> <p>Safety & Operational Features</p> <p>Output Control: Independent output ON/OFF switching functionality is required</p> <p>Voltage</p> <p>Resolution: Approximately 100mV (*1)</p> <p>Current</p> <p>Resolution: Approximately 10mA (*1)</p> <p>Display Parameters</p> <p>Display Units: Four separate displays required for individual channel status visualization</p> <p>Display Type: 4.3-inch LCD (color or monochrome as applicable)</p> <p>Functional Features</p> <p>Tracking Operation: Supported (required for synchronizing output behavior)</p> <p>Auto Series/Parallel: Supported (automatic internal reconfiguration required)</p> <p>Noise filtering, and AUTO SET configuration for display scaling (time base/gain)</p> <p>Protocol Decoding Support: Capable of analyzing</p>	1

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			<p>I2C,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> <p>Power Requirements</p> <p>Supply Input: 230VAC\pm10%, 50Hz</p> <p>Mechanical Specifications</p> <p>Maximum Dimensions(W\timesH\timesD): Within 200 mm \times 100 mm \times 200mm</p> <p>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.</p> <p>Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz.</p> <p>For triangle wave form: approximately 0.1Hz upto 1MHz.</p> <p>Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz.</p> <p>Frequency Stability: The frequency stability shall be within \pm20 ppm (parts per million). Frequency Accuracy: The frequency accuracy shall be maintained within \pm20 ppm.</p> <p>Frequency Aging: Frequency aging shall not exceed \pm5 ppm per annum.</p> <p>Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within \pm20% at maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 50Ω with a</p>	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			<p>tolerance of $\pm 10\%$.</p> <p>Attenuator: A single-step attenuator of-40dB ± 1dB 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 50/60Hz.</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 255mm (W)×95mm(H)×295mm (D). Weight: Maximum device weight shall be within 2.5 kg.</p>	
21	Bench Top Multimeter	Branded Company Product with at	<p>DC Voltage: Range: 500mV to 1000V across 5 ranges.</p> <p>Accuracy: $\pm(0.03\% \text{ rdg} + 4 \text{ digits})$.</p> <p>Input impedance: 10MΩ.</p> <p>AC Voltage (True RMS): Range: 500 mV to 1000V across 5 ranges.</p> <p>Accuracy : $\pm(0.5\% - 5\% \text{ rdg} + \text{digits})$ depending on frequency and range.</p> <p>Input impedance: 10 MΩ.</p> <p>DC Current: Range: 500μA to 20A 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: 500μA to 20 A across 6 ranges.</p> <p>Accuracy: $\pm(0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency.</p> <p>Resistance:</p>	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			Range: 500 Ω to 20 M Ω across 6 ranges. Accuracy : $\pm(0.1\% - 0.3\% \text{rdg} + \text{digits})$ depending on range. Diode Test: Max forward voltage 1.5V, open voltage 2.8 V. Capacitance: Range: 5 μ F to 50 μ F. Accuracy: $\pm(2\% \text{rdg} + 4 \text{digits})$. Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold < 5 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 \times 91 \times 291 mm; 2.6 kg.	
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 90V 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 audible beep for voltage presence. Operating Environment: Suitable for use in ambient temperatures from 0 $^{\circ}$ C to 40 $^{\circ}$ C. Power Source: Powered by standard batteries (typically 2 \times AAA or equivalent). Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000V safety standards. Dimensions: Compact, handheld design suitable for field use (approx. 150mm \times 30 mm \times 25 mm).	5

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			Weight: Light weight, approximately 150g 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 $\pm 0.2\%$ under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Upto 15 different measurement combinations available. Test Level: Selectable AC test levels approximately 0.3V, 0.7V, and 1Vrms; 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 available for data capture and analysis.	1
24		Branded Company	Power Rating: Approximately 60W maximum output power.	

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	Soldering Station	Product with at least three years product warranty	<p>Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within $\pm 2^{\circ}\text{C}$ 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 220 V $\pm 10\%$, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards.</p> <p>Dimensions: Compact design with 100mm \times 100 mm \times 90 mm (W \times H \times D) or above</p> <p>Weight: Approximately 1.5 kg for ease of Portability and bench use.</p>	3
25	Digital Microscope	Branded Company Product with at least three years product warranty	<p>Specification: Magnification: 1600X</p> <p>Light source: 8 LED lights</p> <p>Resolution: 1920 \times 1080, 640 \times 480 Pixel: 30W</p> <p>Focal length: 3-40mm manual adjustment Support Android 4.2 or above/Windows/Mac system</p>	1
26		Branded Company Product with at least three years product warranty	<p>Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range. Heating</p> <p>Element: Needle bit with MCH heater providing rapid heat-up and stable Temperature control within $\pm 2^{\circ}\text{C}$.</p>	

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	Soldering Rework Station		<p>Hot Air Blower Power: Upto approximately 500 W output power with temperature Adjustable within approximately 200°C to 450 °C range, multiple nozzles included.</p> <p>Hot Air Features: Auto-pause function on placement in cradle, air flow adjustable within operational limits.</p> <p>DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current plus 5 V USB output for auxiliary power.</p> <p>Control: Microcontroller-based system with LED indicators for temperature and mode selection.</p> <p>Safety: ESD-safe design compliant with applicable standards.</p> <p>Build: Metallic body with powder coating, approximate dimensions 280mm×180mm ×140mm(W× H×D).</p> <p>Weight: Approximately 3.5kg.</p> <p>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.</p> <p>Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C</p>	1
27		Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 500W or above maximum power consumption.</p> <p>Bit Holder: Standard 1/2"-20UNF thread type.</p> <p>No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm.</p>	

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	HandDrillMachine		Power Output: Approximately 300W continuous output power. Weight: Approximately 1.7kg total device weight. Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4Nm maximum torque output. Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread. Chuck Capacity(Min/Max): Approximately 1.5mm minimum to 13mm 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(1stgear/2nd gear):Min0– 500 / 0 – 1,900 rpm Weight incl. battery: 1.3kg or less Max. impact rate: 27,000 bpm Battery type: Lithium- Ion or equivalent Chuck capacity, min./max.: 1.5/13mm Weight excl. battery: 0.99 kg Torque settings: 20+2 or better	2
29	Jig Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 500W maximum power consumption. Voltage, Electrical: Nominal 230V AC supply. Saw Stroke Length: Approximately 20mm stroke length. Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute). Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately	1

SL. No	Equipment	Preferred brands if any	Specifications	Qty
			-45°to45°range.	
30	Miter Saw	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1,750W maximum power consumption.</p> <p>Saw Blade Diameter: Approximately 254mm nominal diameter.</p> <p>Miter Setting: Adjustable upto approximately 47° left and 52° right.</p> <p>Bevel Setting: Adjustable upto approximately 45° left and 0° right.</p> <p>Saw Blade Bore Diameter: Approximately 25.4mm standard bore.</p> <p>Cutting Capacity at 0°: Approximately 90mm × 130mm maximum cross-section.</p> <p>Cutting Capacity at 45° Mitre: Approximately 90 mm × 91 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-sections.</p> <p>Tool Dimensions (W×L×H): Approximately 477mm×559mm×567mm.</p> <p>No-Load Speed: Fixed at approximately 5,000 rpm.</p> <p>Weight: Approximately 11.1kg.</p>	1
31	Hot Air gun	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1,800W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230VAC 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>Airflow: Adjustable within approximately 350 to 550 liters per minute.</p> <p>Air flow Control: Three selectable</p>	2

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			air flow settings.	
32	Table saw	Branded Company Product with a t least three years product warranty	Rated input power: Max1800W 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°: 55mm Saw blade bore diameter: 30mm Weight 24.4 kg or less Max.cutting capacity on the right: 545mm No-load speed: 4300 rpm Cutting height 90°: 80mm Cutting height 45°: 55mm	1
33	Bench grinder	Branded Company Product with at least three years product warranty	Grinding wheel diameter: min150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: upto 3,000 rpm Grinding wheelbore: 20mm/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 670W maximum power consumption. No-Load Speed: Approximately 11,000 rpm. Disc Diameter: Approximately 100mm nominal diameter. Grinding Spindle Thread: Standard M10 thread. Weight: Approximately 1.5kg. Switch: Lockable switch for operational safety.	1
35		Branded Company Product with	RatedInputPower: Max 300W power consumption. No-Load Speed: Upto 28,000rpm.	

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	Straight Grinder	at least three years product warranty	Voltage, Electrical: Nominal 230V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Upto 25 mm. Maximum Collet Diameter: Upto 8mm. Switch: Lockable switch for enhanced safety.	1
36	Circular Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,400W maximum consumption. Saw Blade Diameter: Nominal 184mm diameter. Saw Blade Bore Diameter: About 20mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically 5,200rpm. Weight: Around 4.1 kg	1
37	Blower	Branded Company Product with at least three years product warranty	Rated Input Power: Max 650W power Weight: Approximately 1.7kg. 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
38	Cordless Screw Driver	Branded Company Product with at least three years product warranty	Battery Capacity: Around 1.5Ah 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): 0.8	1

SL. No	Equipment	Preferred brands if any	Specifications	Qty
			mm up to 10 mm. Weight (Excluding Battery): About 0.8kg. Torque Settings: 20 plus 1 adjustable settings.	
39	Vacuum Cleaner	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,100W maximum power consumption. Weight: Around 6 kg total weight Container Volume (Net): Approximately 10 liters capacity. Voltage Electrical: Nominal 230VAC supply. Container Volume (Gross): Approximately 15 liters total volume. Container Volume (Net, Water): About 8 liters capacity for water. Filter Surface Area: Around 2,300cm ² effective filtration area. Airflow Rate (Turbine): Approximately 53 liters per second. Vacuum Pressure (Turbine): Upto 270mbar 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: Upto 280W maximum consumption. Sanding Pad Diameter: Nominal 125mm diameter. Orbit Diameter: Approximately 2.6mm orbital diameter. Weight: Around 1.4 kg. No-Load Speed: Adjustable within 7,500 to 12,000 rpm range. Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm). Eccentricity: Approximately 1.3mm.	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
41	Planer	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Not exceeding 710W under nominal operating conditions.</p> <p>Planing Width: Approximately 82mm effective width capacity.</p> <p>Planing Depth: Within the range of upto 2.6 mm maximum depth per pass.</p> <p>Weight: Circa 2.8 kg total unit mass.</p> <p>Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm.</p> <p>No-Load Speed: Operating speed typically around 18,000 rpm.</p>	1
42	Cordless Vacuum Cleaner with Starter kit	Branded Company Product with at least three years product warranty	<p>Battery Voltage: Rated at approximately 18.0 V nominal voltage.</p> <p>Weight Excluding Battery: Around 1.3kg without battery attached.</p> <p>Container Volume: Approximately 0.7liters net capacity.</p> <p>Maximum Air flow Rate(Turbine): Upto 10 liters per second.</p> <p>Maximum Vacuum Pressure(Turbine): Not exceeding 60 mbar under standard conditions.</p> <p>Operating Time (18VBattery): Typically 7 minutes per Ah of battery capacity.</p>	1
43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	<p>Rated Power Input: Approximately 175W within nominal voltage range.</p> <p>Voltage: Operates within 220 to 240V AC supply.</p> <p>Weight: Around 0.66 kg total mass.</p> <p>Length: Approximately 24cm overall length. Width: About 4.1 cm nominal width.</p> <p>Depth: Roughly 4.3cm depth dimension.</p>	2

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm. Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick Change System: Equipped with multi chuck for rapid accessory interchange. Vibration Level: Approximately 18m/s ² measured vibration	
44	Rubber Grip Hacksaw	Very Good Quality	Depth of Throat: Approximately 98mm (3.85 inches) nominal depth. Blade Length: Around 254mm (10 inches) standard length.	2
45	Hacksaw Mini	Very Good Quality	Blade Length : Approximately 10 inches nominal length. Handle Material: Constructed from metal standard. Overall Length: Around 11 inches total length.	2
46	Claw Hammer Steel Shaft	Very Good Quality	Weight: Approximately 8 noz(220grams) nominal weight. Dimensions: Around 27.8cm×12.4cm×3.6 cm (L × W × H) overall size	2
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6cm×10cm×2cm (L × W × H) overall measurements.	2
48	Rubber mallet	Very Good Quality	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6cm×9.6cm×6.2 cm (L × W × H) overall size.	2
49	Ring spanner set	Very Good Quality	Weight: 3.08 Kg nominal weight.	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	12Pcs		Quantity: 12 pcs per set. Size: 6mm to 32mm overall range.	
50	Open end spanner set 12Pcs	Very Good Quality	Weight: Approx 1.74Kgnom.wt. Qty: 12pcs/set. Size: 6mm-32mm over all dims.	1
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	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" Qty: 12pcs/set	2
54	Combination plier	Very Good Quality	Weight: Approx 422g nom.wt. Size: 8"/200mm nominal	2
55	Longnose plier	Very Good Quality	Weight: Approx 399g nom. wt. Size: 180mm/6" nominal	2
56	Circlips 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: Upto 150mm	2
61	Pipewrench	Very Good Quality	Size: Max 300mm	2

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
62	C-clamp	Very Good Quality	Size: Upto75mm	4
63	C-clamp	Very Good Quality	Size: Upto150mm	4
64	Snap-offKnife	Very Good Quality	Size: 18mmm	2
65	16pcsscrew driver set	Very Good Quality	Pieces PerSet: 16 pcs	1
66	6pcs precision screw driver set	Very Good Quality	Pieces PerSet: 16 pcs	2
67	Maxsteel 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: 40W	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: 340gm	2
73	Punch set	Very Good Quality	Weight: 390gm	2
74	Benchwise	VeryGood Quality	BaseType: Fixed Size: 2–3½"nominal Jaw Width: 60mm	2
75	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Very Good Quality	WAF(mm): 1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13 Wt: ~1.3Kgnom.wt Sz(mm): 205×115×55overall	2
77	Baby wise	Very Good Quality	Vice Type: Bench Size: 2" nominal	2

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			JawWidth:50mm	
78	Ratchet Set	Very Good Quality	Vice Type: Bench Sz: 2"nominal; Jaw: 50mm	2
79	Pegboard	Very Good Quality		5
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Calliper Meas.Range: 0–150mm/0–6" Resolution: 0.01mm	2
81	Micrometer	Very Good Quality	Resolution: 0.001mm/0.00005" Meas.Range: 0–25mm/0–1"	1
82	SteelRule300mm	VeryGood Quality	Product Type: Steel Rule Scale Size: 12"/300mm Material: Stainless Steel	5
83	SteelRule600mm	VeryGood Quality	Product Type: Steel Rule Scale Size: 24"/600mm Material: Stainless Steel	5
84	Engineering Square	Very Good Quality	Size: 150×80mm nominal Material: Carbon Steel	2
85	MeterTape30m	Very Good Quality	Length: 30m	1
86	Measuring Tape 3M	Very Good Quality	Length: 3m	3
87	Measuring Tape 5M	Very Good Quality	Length: 5m	3
88	Spirit Level	Very Good Quality	Vials: 3 Accuracy: 0.5mm/m Length: 300mm Product Type: Level	3
89	Goggle	Very Good Quality	Goggle –Industrial Standard Make	5
90	Apron	Very Good Quality	Apron -Standard Make	5
91	EarMuff	Very Good Quality	Earmuff –Industrial Standard Make	5

SL No	Equipment	Preferred brands if any	Specifications	Qty
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: 20L or more Type: Solo Door: Side Swing Child Lock: Yes Completion Beeper: Yes Power Levels: upto 5 Control: Membrane Type Cavity Mat: Anti-Bacterial Dims(mm): 455×252×320 Power Out: 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: Freestanding	1
98		Branded Company Product with at least three years product warranty	Display Size: Approx 7.5 Inch (190cm) Upto Resolution: 4K UHD or Higher Brightness: Min 350 nits; Typ 400 nits Approx Contrast Ratio: Typ 1200:1 Upto Response Time: Approx 8ms	

SL. No	Equipment	Preferred brands if any	Specifications	Qty
	Smart Board		Viewing Angle: Approx 178 Degrees Wide Working Frequency: 1.5GHz Nominal RAM: 4GB Or More Internal Storage: 32GB Min OS: Android Based HDMI: 3Port USB: 2Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20 Approx 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 TypeB: 1port (Firm ware Update/Copy OSD) Approx Analog Input: D-Sub 15pin: 1port Digital Input: HDMI: 1port Projection Lens: Type: No Optical Zoom/Focus (Manual) Nominal Focal Length: 16.70mm Approx	1
100			FNumber: 1.44 Nominal Zoom: 1.44-1.95 Ratio (Wide to Tele) Throw Ratio Range: 1.00–1.35 (Digital Zoom Approx)	
101		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: 9.7Kg Nominal Print Speed: Upto 30ppm (A4 Size) Approx Warranty: 1 Year On-Site Print Resolution: 600×600dpi, HQ 1200(240	

SL. No	Equipment	Preferred brands if any	Specifications	Qty
	Printer		<p>0× 600dpi) Quality Approx 2Sided-Duplex- Paper Type:Plain,Thin,Recycled Approx 2Sided-Duplex- PaperSize:A4 Paper Handling:Tray#1- Paper Type:Plain,Thin,Recycle d Tray#1- Max Capacity:Upto 250 Sheets (80g/m²)Approx Paper Output:Upto100 Sheets(80g/m²)Face Do wn Tray; One Sheet Face UpTray Approx Copy-Colour /Mono:Yes/Yes Multiple Copies: Sorts/Stacks Upto 99 PagesApprox Enlarge/Reduce:25%- 400%(In1%Steps)App rox Copy Resolution:600×600d pi 2Sided-Duplex- Copy Paper Type:Plain,Thin, Recycled 2Sided-Duplex-Copy PaperSize:A4 Scan- Resolution Interpolated:Upto19200×19200dp I Approx Scan- Resolution Glass:Upto600×2400 dpi Approx Connectivity:Hi- SpeedUSB2.0 Display Type:16Chars×2Lines Memory Capacity:32MBApprox Power Source:220- 240VAC50/60Hz Power Consumption- Ready:Approx60W Power</p>	1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
			Consumption-Sleep: Approx6.6W Power Consumption-Off: Approx0.08W Noise Level: 50dB(A)Approx	
102	Desktop Computer	Branded Company Product with at least three Years product warranty	CPU: INTELCOREI7-12 TH GENorHigher RAM: 8GB+512GB SSD or more Conn: LAN+WIFI+BLUTOOTH+KEYMO USE Display: 20" DESKTOP MONITOR Roundness Accuracy: +/- 0.5mmApprox Spool Inner Dia: 55mmNominal Spool Outer Dia: 200mm Approx Spool Weight: 300g Nominal Spool Width: 65mmApprox	5
103	Acrylic Sheet 3mm,4ftx4ft	Very Good Quality		20
104	Acrylic Sheet 4mm,4ftx4ft	Very Good Quality		20
105	Acrylic Sheet 5mm,4ftx4ft	Very Good Quality		20
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2
107	Foam Sheet 10mm,4ftx4ft	Very Good Quality		1
108	Foam Sheet 12mm,4ftx4ft	VeryGood Quality		1
109	Foam Sheet 15mm,4ftx4ft	Very Good Quality		1
110	PlyBoard5mm, 2ft x 4ft	Very Good Quality		12
111	Nylon Rod10mm, 1m	Very Good Quality		5

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
112	Nuts (3mm,4mm,5mm, 6mm,8mm,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	2WayTape	Very Good Quality		10
120	PVC Pipe .75",10ft	Very Good Quality		10
121	PVC Pipe 1",10ft	Very Good Quality		10
122	PVC	Very Good Quality		10

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	Pipe 1.5", 10ft			
123	PVC Pipe 2.0", 10ft	Very Good Quality		10
124	Aluminium channels (L, C, Box, strip length 12ft)	Very Good Quality		2
125	PCB Drill Bit 0.4mm	Very Good Quality		10
126	PCB Drill Bit 0.8mm	Very Good Quality		10
127	PCB Drill Bit 1mm	Very Good Quality		10
128	Drill Bit 4mm	Very Good Quality		10
129	Drill Bit 5mm	Very Good Quality		10
130	Drill Bit 6mm	Very Good Quality		10
131	Arduino UNO R3	Very Good Quality		5
132	Arduino NANO	Very Good Quality		5
133	Arduino Mega	Very Good Quality		3
134	Raspberry Pi Model 4B, 4GB	Very Good Quality		3
135	ESP8266 Node MCU	Very Good Quality		2
136	ESP32 Development Board	Very Good Quality		2
137	Beaglebone Black	Very Good Quality		1
138	Beaglebone	Very Good Quality		1

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	Black			
139	Voltage Regulator Module	Very Good Quality		2
140	Mini Micro submersible Water Pump	Very Good Quality		2
141	Piezo electric Plate	Very Good Quality		2
142	8*8LED Matrix Module	Very Good Quality		2
143	Bluetooth	Very Good Quality		2
144	7Segment LED Display	Very Good Quality		2
145	GSM/GPRS/GP S Module	Very Good Quality		2
146	Laser Module	Very Good Quality		2
147	LDR Module	Very Good Quality		2
148	4×4Matrix 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

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
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		2
170	Soil Moisture Sensor	Very Good Quality		2
171	Touch Sensor	Very Good Quality		2
172	Rain Drop Sensor	Very Good Quality		2

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
173	Flex Sensor	VeryGood Quality		2
174	Temperature Sensor	Very Good Quality		2
175	Force Pressure Sensor	Very Good Quality		2
176	Colour Recognition Sensor	VeryGood 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 & Rx315MHzAS K	VeryGood Quality		2
182	Stepper motor with Driver Board	Very Good Quality		2
183	Servo Motor360 rotation	Very Good Quality		10
184	ServoMotor180 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		Very Good		

Sl. No	Equipment	Preferred brands if any	Specifications	Qty
	SolderFlux	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	MaletoMale 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

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@mite.ac.in and also to be submitted in a separate sealed envelope to:

The Principal
Mangalore Institute of Technology & Engineering
Mijar, Moodabidri
D.K .Dist, Karnataka - 574225
Clearly marked as "Technical &FinancialBid" 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)

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, Mangalore Institute of Technology & Engineering, Badaga Mijar, Moodabidri, D K District, Karnataka-574225

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, Mangalore Institute of Technology & Engineering, Moodabidri, D K District, Karnataka-574225

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, 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:

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:

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:

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, Mangalore Institute of Technology & Engineering, shall be at liberty to terminate the contract and forfeit our security deposit/performance guarantee without notice.

Authorized Signatory:

Name:

Designation:

Company Seal:

Date:



MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A Unit of Rajalaxmi Education Trust®, Mangalore)

Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

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: