



Date: 15/09/2025

Tender Notice

AICTE IDEA Lab Equipment Purchase

Sealed tenders are invited from reputed and experienced suppliers, manufacturers, or authorized distributors for the supply, installation, and commissioning of equipment, tools, and machines for setting up an AICTE IDEA Lab at our institute. The laboratory is to be developed as per the AICTE guidelines for promoting innovation, design thinking, and prototyping skills among students and faculty. The detailed specifications of the required items and the necessary procedure to be adhered to are as follows:

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 institute's website at the link: <https://djsce.ac.in/>
- ❖ Bidders must not be blacklisted or under investigation by any government authority.
- ❖ OEM authorization is mandatory wherever applicable.
- ❖ All documents must be signed and stamped by the authorized signatory.
- ❖ 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).
- ❖ 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 Mumbai.

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 items must be delivered and installed within 45 days from the date of purchase order.
- ❖ A warranty of minimum 3 years must be provided on all equipment supplied. Wherever 1 year warranty is given by OEM, the same to be extended to 03 Years.

3. Schedule of Requirements

- ❖ The bidder must supply equipment listed under the technical specifications to:



The Principal, Dwarkadas J. Sanghvi College of Engineering, No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada, JVPD Scheme, Vile Parle, Mumbai, Maharashtra 400056.

4. Specifications and Allied Technical Details

Sr. 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) / Fused Deposition Modeling (FDM)</p> <p>Printable Area: $220 \times 220 \times 250$ mm or above</p> <p>Printer Design: CoreXY (high-speed)</p> <p>Temperature Range:</p> <p>Hot End: Up to 300°C or above</p> <p>Heat Bed: Up to 100°C or above</p> <p>Nozzle: Tri-metal quick-swap nozzle, 0.4 mm (compatible with 0.6 and 0.8 mm options)</p> <p>Steel Sheet: Flexible PEI-coated build plate (smooth/satin finish)</p> <p>Filament Diameter: 1.75 mm (supports PLA, PETG, ASA, ABS, PC, TPU, PA, PA-CF, PET-CF, PLA-CF)</p> <p>Extruder: Direct drive, dual gear, optimized for flexible and abrasive filaments</p> <p>Speed: Up to 600 mm/s or above</p> <p>Stepper Drivers: High-precision drivers with input shaping for smooth motion</p> <p>Stepper Motors: High-torque motors for CoreXY precision</p> <p>Connectivity: USB drive, Wi-Fi, Internet</p> <p>Supported Materials: PLA, PETG, ASA, ABS, PC, PA, TPU, carbon-fiber composites (PLA-CF, PA-CF, PET-CF)</p> <p>Wi-Fi Module: Built-in (network connectivity optional for setup/operation)</p> <p>Compatibility: Windows, macOS, Linux</p> <p>Design: Fully enclosed machine with rigid die-cast frame.</p>	4
2	PCB Milling Machine	Branded Company Product with at least three years product warranty	<p>Cutable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc</p> <p>Table Size: $225 (X) \times 150 (Y)$ mm or more</p> <p>Drive System: Stepping Motor (X, Y, Z Axis)</p> <p>Operating Speed: 800 mm/min</p> <p>Software Resolution: 0.01 mm/step</p> <p>Position accuracy : 0.01 to 0.02 mm</p> <p>Max Travel Speed (mm/sec)-58 (2.28 “)</p>	1



			<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 Spindle Speed: Adjustable 20,000 and above rpm or more Tool Chuck Type: Collet Interface: USB or cable Control Commands: RML-1, NC code Power Supply: DC 24V, 2.5A (via AC 100–240V, 50/60Hz adapter) Power Consumption: Approx. 50 W or more</p>	
3	CO2 Laser Cutting Machine	Branded Company Product with at least three years product warranty	<p>Working Area: Min 600 x 900 mm or above Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Upto 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000 mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415 V Accessories: CO2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 Nos</p>	1
4	Vinyl Printer	Branded Company Product with at least three years product warranty	<p>Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs or less Max cut size using machine mat: 11.5 inch x 23.5 inch or more Cut speed: up to 14.1 ips</p>	1
5	3D Scanner	Branded Company Product with at least three years product warranty	<p>Accuracy: Up to 0.1 mm precision or better Resolution / Point Distance: 0.16 mm or better Single Capture Range: Up to 560 × 820 mm (at ~700 mm) Working Distance: 150 – 700 mm Scan Speed (Frame Rate): Up to 30 fps Minimum Scanning Volume: 50 × 50 × 50 mm Light Source: Near-Infrared (NIR) laser Tracking Mode: Visual tracking; stability via anti-shake technology Color Texture Capture: Yes—24-bit full-color with built-in camera Outdoor Scanning: Supported; works effectively even in bright sunlight</p>	1



			Supported Output Formats: OBJ, STL, PLY Connectivity: USB 3.0 (Type-C) Compatibility: Windows and macOS	
6	Lathe Machine cum milling	Branded Company Product with at least three years product warranty	Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8 Motor Rating: 550W or better, induction motor, single phase 230V Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more Additional Accessories: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod)	1
7	CNC Router	Branded Company Product with at least three years product warranty	Working Area: Min 1.5' x 1.5' Resolution: $\pm 0.03/300\text{mm}$ or more CNC Spindle: 1.5KW or more Lathe Structure : Welding Steel Structure or equivalent XYZ Structure: Rack Pinion , Ball Screw Linear Rails Max Spindle Speed : Min 12000RPM Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ± 0.03	1



			Working Mode: Stepper Motor/Servo Motor Dust Collector : To be included by Vendor Voltage: AC 220V/415V, 50/60 Hz	
8	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Titing Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm	1
9	Scroll Saw	Branded Company Product with at least three years product warranty	Power input: 50 Watt Thickness of Cut: 50 mm (2 inch) Throat: 406 mm (16 inch) Length of Stroke: 18 mm (11/16 inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch)	1
10	Wood Turning Lathe	Branded Company Product with at least three years product warranty	Motor: 230V~50Hz, 550W, S2:15min or above Max. Disc Diameter: min 75 mm Max. Cutting Length: 450 mm or more Spindle Speed: 5 speeds such as 1600 / 2600 / 3200 RPM etc Maerial: 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. 250 W Capacity: Steel: Min 13 mm (1/2") Wood: Min 24 mm (15/16") No Load Speed (RPM): 570, 890, 1,300, 1,900, 2,670(50 Hz), 690, 1,070, 1,560, 2,280, 3,200(60 Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75 m (5.7 ft) Additional Accessories: Bench Vise: 1 No., Drill Bit Set 10 Pcs: 1 No	1
12	Portable Welding Machine	Branded Company Product with at least Three to Five years Warranty	Welding Current (at 40°C, 10 min cycle): 120A @ 100%, 150A @ 60%, 200A @ 35% Supply Voltage: 240V +10%, -15%, 1 Phase, 50/60 Hz Open Circuit Voltage: 55V DC ±5V Welding Current Range: 15–200 Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: upto 320×120×195 mm Weight (Approx.): 4.3 kg or less	1
13	Computerized Sewing Machine	Branded Company Product with at least three years product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V	1



			<p>Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight: 7.6 kg Number of Stitches: 120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles: 7 LCD Screen Display: Yes Bed Type Free Arm/Flatbed convertible Bobbin Type Drop & Sew Bobbin System</p>	
14	Filament Dehydrator	Branded Company Product with at least three years product warranty	<p>Operating Temperature Range: 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</p>	1
15	Reflow Oven	Branded company Product with at least three years product warranty	<p>No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C Overall Dimensions: min 350×450 mm Machine Weight: upto 25 kg</p>	1
16	Digital multimeter	Branded company Product with at least three years product warranty	<p>Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V 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 10 A DC Current Accuracy: $\pm 1.5\%$ + 3 digits (approximate) AC Current Accuracy: $\pm 1.5\%$ + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at $\pm 1.5\%$ + 3 digits Capacitance Measurement: Up to 1000 μF 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</p>	2



			<p>60°C</p> <p>Overall Dimensions (H×W×L): Approximately 183×91×49.5 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 600V and CAT II 1000V environments with Pollution Degree 2 classification</p>	
17	MSO 100 MHz	Branded Company Product with at least three years product warranty	<p>Bandwidth: 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>Waveform 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>Waveform 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 Arbitrary Waveform Generator (AWG): Dualchannel, 25 MHz, supporting various waveforms such as sine, square, pulse, ramp, DC, noise, sinc, Gaussian, Lorentz, exponential rise/fall, haversine, and cardiac</p> <p>AWG Sample Rate: 200 MSa/s</p> <p>AWG Vertical Resolution: 14 bits</p> <p>Display: 8-inch WVGA TFT LCD (800 × 480 pixels)</p> <p>Data Logging Capability: Up to 1000 hours</p> <p>Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval</p> <p>Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGo BNC</p> <p>Dimensions (W × H × D): 380× 200× 125 mm or above</p> <p>Weight: 2 Kgs or above</p>	1



			Safety Compliance: Conforms to IEC 61010-1 and IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	
18	Digital oscilloscope	Branded Company Product with at least three years product warranty	<p>Number of Channels: Up to 2 independent analog inputs</p> <p>Memory Record Length: Up to 10 Mpts for extended waveform capture</p> <p>Bandwidth Limiting: Selectable 20 MHz bandwidth filter</p> <p>Sampling Rate: Maximum of 1 GSa/s real-time equivalent per channel</p> <p>Rise Time: ≤ 3.5 ns depending on probe and settings</p> <p>Display: 7" TFT color LCD with 800×480 resolution</p> <p>Time Base Range: From 5 ns/div to 100 s/div, user-adjustable</p> <p>Vertical Resolution: 8-bit digital resolution</p> <p>Trigger Modes: Automatic, Normal, and Signal-dependent triggering</p> <p>Maximum Input Voltage: 300 Vrms (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: 2.5 kg or above</p> <p>Input Impedance: Nominal 1 MΩ // 16 pF</p> <p>Measurement Capabilities: Equipped for automatic parameter extraction, background</p>	1
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> <p>CH1 & CH2: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A</p> <p>CH3: Variable range 0 to 5V supporting up to 1A</p> <p>CH4: Output adjustable from 0 to 15V with a load current of up to 1A</p> <p>Constant Voltage Operating Mode</p> <p>Line Regulation: $\leq 0.01\% + 3$ mV (approximate value within rated voltage range)</p>	1



			<p>Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across rated load variation)</p> <p>Ripple & Noise: $\leq 1 \text{ mVrms}$ across full bandwidth</p> <p>Constant Current Operating Mode</p> <p>Line Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Load Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Ripple Current: $\leq 3 \text{ mArms}$ (typical)</p> <p>Safety & Operational Features</p> <p>Output Control: Independent output ON/OFF switching functionality is required</p> <p>Voltage Resolution: Approximately 100 mV (*1)</p> <p>Current Resolution: Approximately 10 mA (*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>Power Requirements</p> <p>Supply Input: 230V AC $\pm 10\%$, 50 Hz</p> <p>Mechanical Specifications</p> <p>Maximum Dimensions (W \times H \times D): Within 200 mm \times 100 mm \times 200 mm</p> <p>Maximum Weight: 10 kg 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.</p> <p>Frequency Stability: The frequency stability shall be within ± 20 ppm (parts per million).</p> <p>Frequency Accuracy: The frequency accuracy shall be maintained within ± 20 ppm. Frequency Aging: Frequency aging shall not exceed ± 5 ppm per annum.</p> <p>Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (V_{p-p}) into a 50 Ω load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within $\pm 20\%$ at maximum amplitude setting.</p>	1



			<p>Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of $\pm 10\%$.</p> <p>Attenuator: A single-step attenuator of -40 dB ± 1 dB shall be provided.</p> <p>Display: A 6-digit LED display shall be incorporated for parameter indication. 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 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$. Dimensions: Maximum dimensions shall not exceed 255 mm (W) \times 95 mm (H) \times 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. Accuracy: $\pm(0.03\% \text{ rdg} + 4 \text{ digits})$.</p> <p>Input impedance: 10 MΩ. AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: $\pm(0.5\% - 5\% \text{ rdg} + \text{digits})$ depending on frequency and range. Input impedance: 10 MΩ.</p> <p>DC Current: Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm(0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})$ depending on range.</p> <p>AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges. Accuracy: $\pm(0.5\% - 1\% \text{ rdg} + \text{digits})$ depending on frequency.</p> <p>Resistance: Range: 500 Ω to 20 MΩ across 6 ranges. Accuracy: $\pm(0.1\% - 0.3\% \text{ rdg} + \text{digits})$ 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. Accuracy: $\pm(2\% \text{ rdg} + 4 \text{ digits})$.</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 \times 91 \times 291 mm; 2.6 kg.</p>	1
22	Non-Contact	Branded Company	Function: Non-contact AC voltage detection	5



	Voltage Tester	Product with at least three years product warranty	<p>tester.</p> <p>Voltage Detection Range: Approximately 90 V to 1000 V 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 0 °C to 40 °C. Power Source: Powered by standard batteries (typically 2 × 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 × 30 mm × 25 mm).</p> <p>Weight: Lightweight, approximately 150 g for ease of portability.</p>	
23	LCR Meter	Branded Company Product with at least three years product warranty	<p>Display: Approximately 2.8" TFT touch LCD screen.</p> <p>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: Up to 15 different measurement combinations available.</p> <p>Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ± 1 V. Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).</p> <p>Auto LCR Mode: Automatic identification and measurement of component types within supported ranges. Data Hold: Feature available to hold measured data on display. Interface: USB virtual COM port provided for remote communication capabilities. Software: Datalogging software available for data capture and analysis.</p>	1
24	Soldering Station	Branded Company Product with at least three years product warranty	<p>Feature Overview:</p> <p>Hot air blower</p> <p>Fine bit MCH soldering iron</p>	10



			<p>Built in SMPS with USB port with output voltage of 5V/1Amps</p> <p>Ammeter with ports for attaching testing probes</p> <p>Auto-pause for blower when placed in attached cradle</p> <p>Specifications:</p> <p>Station-</p> <p>Metal Body</p> <p>Pre-Printed Set and Run Modes on panel for iron and hot air blower with LED indicator for temperature maintenance</p> <p>ESD safe</p> <p>Input Voltage : 230V/50Hz.</p> <p>Overall Consumption : 600 Watts</p> <p>Soldering Iron-</p> <p>Temp. range - 200°C - 450°C</p> <p>Needle Bit</p> <p>Iron Supply 24 Volts / 60 Watts</p> <p>Earthed</p> <p>Easy Replaceable bits</p> <p>Rubber grip for non-slippery use.</p> <p>MCH heater for long life</p> <p>Hot Air Specs -</p> <p>Temp. range - 200°C - 480°C</p> <p>Power consumption 500W</p> <p>Integrated blower within hand held unit.</p> <p>Built in temperature Sensor for precise measuring</p> <p>light weight</p> <p>Digitally Controlled</p> <p>Built-in cut off sensor when placed on Cradle (provided)</p> <p>Earthed</p> <p>Comes with 3 different air nozzle sizes</p> <p>Power supply -</p> <p>7 segment display for SET and RUN modes</p> <p>Analogue amp meter for precise deflection</p> <p>Voltage Output : 15Volts/1A (max)</p> <p>Test mode Input voltage : 20Volts (max)</p>	
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: 1920×1080, 640*480</p> <p>Pixel: 30W</p> <p>Focal length: 3-40mm manual adjustment</p> <p>Support Android 4.2 or above/widows/Mac system</p>	1
26	Soldering Rework Station	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.</p>	1

			<p>Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ± 2 °C.</p> <p>Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included. Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits.</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 280 mm \times 180 mm \times 140 mm (W \times H \times D).</p> <p>Weight: Approximately 3.5 kg.</p> <p>Power Source: AC 220 V \pm10%, 50/60 Hz.</p> <p>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>	
27	Hand Drill Machine	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 500 W or above maximum power consumption. Bit Holder: Standard 1/2"-20 UNF thread type. No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm. Power Output: Approximately 300 W continuous output power.</p> <p>Weight: Approximately 1.7 kg total device weight.</p> <p>Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4 Nm maximum torque output.</p> <p>Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread.</p> <p>Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.</p>	4
28	Cordless drill	Branded Company Product with at least three years product warranty	<p>Weight incl. battery: 1.3 kg or less</p> <p>Max. impact rate: 27,000 bpm</p> <p>Battery type: Lithium-Ion or equivalent</p> <p>Chuck capacity, min./max.: 1.5 / 13 mm</p>	4



			Weight excl. battery: 0.99 kg Torque settings: 20+2 or better	
29	Jig Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 500 W maximum power consumption. Voltage, Electrical: Nominal 230 V AC supply. Saw Stroke Length: Approximately 20 mm stroke length. Stroke Rate at No Load: Adjustable within approximately 800 to 3,100 spm (strokes per minute). Weight: Approximately 2.08 kg total weight. Bevel Angle: Adjustable within approximately - 45° to 45° range.	2
30	Miter Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,750 W maximum power consumption. Saw Blade Diameter: Approximately 254 mm nominal diameter. Mitre Setting: Adjustable up to approximately 47° left and 52° right. Bevel Setting: Adjustable up to approximately 45° left and 0° right. Saw Blade Bore Diameter: Approximately 25.4 mm standard bore. Cutting Capacity at 0°: Approximately 90 mm × 130 mm maximum cross-section. Cutting Capacity at 45° Mitre: Approximately 90 mm × 91 mm maximum cross-section. Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-section. Tool Dimensions (W×L×H): Approximately 477 mm × 559 mm × 567 mm. No-Load Speed: Fixed at approximately 5,000 rpm. Weight: Approximately 11.1 kg.	1
31	Hot air gun	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,800 W maximum power consumption. Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg. Working Temperature Range: Adjustable within approximately 60 °C to 550 °C. Heat-Up Time: Approximately 1 second to reach target temperature. Airflow: Adjustable within approximately 350 to 550 liters per minute. Airflow Control: Three selectable airflow settings.	2
32	Table saw	Branded Company Product with at least three	Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R	1



		years product warranty	Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm Saw blade bore diameter: 30 mm Weight 24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting height 45°: 55 mm	
33	Bench grinder	Branded Company Product with at least three years product warranty	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: upto 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less	1
34	Angle Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 670 W maximum power consumption. No-Load Speed: Approximately 11,000 rpm. Disc Diameter: Approximately 100 mm nominal diameter. Grinding Spindle Thread: Standard M10 thread. Weight: Approximately 1.5 kg. Switch: Lockable switch for operational safety.	1
35	Straight Grinder	Branded Company Product with at least three years product warranty	Rated Input Power: Max 300 W power consumption. No-Load Speed: Up to 28,000 rpm. Voltage, Electrical: Nominal 230 V AC supply. Spindle Collar Diameter: Approximately 41 mm. Weight: Around 1.4 kg. Maximum Grinding Tool Diameter: Up to 25 mm. Maximum Collet Diameter: Up to 8 mm. Switch: Lockable switch for enhanced safety.	1
36	Circular Saw	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,400 W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20 mm standard bore size. Guide Rail Compatibility: Not compatible with guide rails. No-Load Speed: Typically 5,200 rpm. Weight: Around 4.1 kg	1
37	Blower	Branded Company	Rated Input Power: Max 650 W power	2



		Product with at least three years product warranty	consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ± 3 dB	
38	Cordless Screwdriver	Branded Company Product with at least three years product warranty	Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 1,500 rpm respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable settings.	2
39	Vacuum Cleaner	Branded Company Product with at least three years product warranty	Rated Input Power: Approximately 1,100 W maximum power consumption. Weight: Around 6 kg total weight. Container Volume (Net): Approximately 10 liters capacity. Voltage, Electrical: Nominal 230 V AC supply. Container Volume (Gross): Approximately 15 liters total volume. Container Volume (Net, Water): About 8 liters capacity for water. Filter Surface Area: Around 2,300 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 280 W maximum consumption. Sanding Pad Diameter: Nominal 125 mm diameter. Orbit Diameter: Approximately 2.6 mm orbital diameter. Weight: Around 1.4 kg. No-Load Speed: Adjustable within 7,500 to 12,000 rpm range. Orbital Stroke Rate: Between 15,000 and 24,000 orbits per minute (opm). Eccentricity: Approximately 1.3 mm.	1
41	Planer	Branded Company Product with at least three	Rated Input Power: Not exceeding 710 W under nominal operating conditions. Planing	1



		years product warranty	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 18,000 rpm.	
42	Cordless Vacuum Cleaner with Starter kit	Branded Company Product with at least three years product warranty	Suction Power: Up to 115 Air Watts (digital motor at up to ~110,000 rpm) Run Time: Up to 40 minutes in standard mode (non-motorised tool) Approximately 25 minutes with motorized cleaner heads Around 7 minutes in Max mode Battery Type: Six-cell energy-dense battery (Nickel-cobalt-aluminum) Charge Time: Around 5 hours Bin Capacity: 0.54 L dust bin with hygienic ejection system	1
43	Rotary Tool Kit	Branded Company Product with at least three years product warranty	Rated Power Input: Approximately 175 W within nominal voltage range. Voltage: Operates within 220 to 240 V AC supply. Weight: Around 0.66 kg total mass. Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width. Depth: Roughly 4.3 cm depth dimension. No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm. Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick Change System: Equipped with multi chuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s ² measured vibration	2
44	Rubber Grip Hacksaw	Very Good Quality	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	10
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.	10
46	Claw Hammer	Very Good Quality	Weight: Approximately 8 oz (220 grams)	12



	Steel Shaft		nominal weight. Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W × H) overall size	
47	Ball Pein Hammer	Very Good Quality	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	12
48	Rubber mallet	Very Good Quality	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	10
49	Ring spanner set 12Pcs	Very Good Quality	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	2
50	Open end spanner set 12Pcs	Very Good Quality	Weight: Approx 1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	2
51	Combination Spanner set 8Pcs	Very Good Quality	Weight: Approx 649g nom.wt. Qty: 8pcs/set.	2
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	Long nose plier	Very Good Quality	Weight: Approx 399g nom.wt. Size: 180mm/6" nominal	12
56	Circlip straight 5"	Very Good Quality	Weight: Approx 399g nom.wt. Size: 130mm/5" nominal	2
57	Circlip bent	Very Good Quality	"Weight: Approx 399g nom.wt. Size: 130mm/5"" nominal"	2
58	Diagonal Cutter	Very Good Quality	"Weight: Approx 239g nom.wt. Size: 180mm nominal"	2
59	Wire Stripper	Very Good Quality	Weight: Approx 281g nom.wt. Size: 130mm nominal	12
60	Adjustable spanner	Very Good Quality	Size: Upto 150 mm	2
61	Pipe wrench	Very Good Quality	Size: Max 300 mm	2
62	C – clamp	Very Good Quality	Size: Upto 75 mm	4
63	C-clamp	Very Good Quality	Size: Upto 150 mm	4



64	Snap- off Knife	Very Good Quality	Size:18 mm	12
65	6pcs screw driver set	Very Good Quality	Pieces Per Set: 6 pcs	12
66	16pcs precision screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	12
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	10
70	Small file set	Very Good Quality	Length: 160 mm	4
71	Big file set	Very Good Quality	Length: 200 mm	4
72	Chisel set	Very Good Quality	Weight: 340 gm	4
73	Punch set	Very Good Quality	Weight: 390 gm	4
74	Bench wise	Very Good Quality	Base Type: Fixed Size:2–3½" nominal JawWidth:60mm	2
75	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1
76	Drill bit set	Very Good Quality	WAF(mm):1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13 Wt:~1.3Kg nom.wt Sz(mm):205×115×55 overall	4
77	Baby wise	Very Good Quality	Vice Type: Bench Size:2" nominal JawWidth:50mm	16
78	Ratchet Set	Very Good Quality	Vice Type: Bench Sz:2" nominal; Jaw:50mm	2
79	Pegboard	Very Good Quality	Heavy duty industrial pegboard with hooks; Dimensions – 4' X 2'; Material – Mild Steel	4
80	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Calliper Meas.Range:0–150mm / 0–6" Resolution:0.01mm	4
81	Micrometer	Very Good Quality	Resolution:0.001mm/0.00005" Meas.Range:0–25mm/0–1"	4
82	Steel Rule 300mm	Very Good Quality	Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel	16
83	Steel Rule 600mm	Very Good Quality	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5
84	Engineering Square	Very Good Quality	Size:150×80mm nominal Material: Carbon Steel	5
85	Meter Tape 30m	Very Good Quality	Length: 30 m	2
86	Measuring Tape 3M	Very Good Quality	Length: 3 m	12
87	Measuring Tape	Very Good Quality	Length: 5 m	12



	5M			
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	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	4
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 PowerOut:700W or less	1
97	Refrigerator	Branded Company Product with at least three years product warranty	Capacity:183L or more AnnualEnergyConsumption:148kWh/Year or less RefrigeratorFreshFoodCapacity:165L or more Freezer Capacity: min 18L BottleCount:5 or more NoiseLevel:40dB or less Installation Type: Freestanding	1
98	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx 75" (190 cm) Up to Resolution: 4KUHDorHigher Brightness: Min 350 nits; Typ400nitsApprox Contrast Ratio: Typ 1200: 1Upto Response Time: Approx 8ms Viewing Angle: Approx178DegreesWide WorkingFrequency:1.5GHzNominal RAM:4GBOrMore InternalStorage:32GBMin OS: Android Based HDMI: 3Ports USB: 2Ports Sensing Type: Infrared Touch Frame Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20Approx Voltage:DC+5V±5%Range	1



			OPS: Optional	
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: 1port (FirmwareUpdate/Copy OSD) Approx AnalogInput:D-Sub15pin:1port Digital Input: HDMI:1port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx FNumber:1.44 Nominal Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00–1.35(Digital Zoom Approx	1
100	Printer	Branded Company Product with at least three years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm):409×398.5×267Approx Weight:9.7KgNominal PrintSpeed:Upto30ppm(A4Size)Approx Warranty:1 YearOn-Site PrintResolution:600×600dpi,HQ1200(2400× 600dpi) Quality Approx 2Sided-Duplex- PaperType:Plain,Thin,RecycledApprox 2Sided-Duplex-PaperSize:A4 PaperHandling:Tray#1- PaperType:Plain,Thin,Recycled Tray#1- MaxCapacity:Upto250Sheets(80g/m ²)Approx PaperOutput:Upto100Sheets(80g/m ²)FaceDo wnTray;OneSheetFaceUpTrayApprox Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%400%(In1 %Steps)Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType:Plain,Thin,Recycled 2Sided-Duplex-CopyPaperSize:A4 Scan- ResolutionInterpolated:Upto19200×19200dp iApprox Scan- ResolutionGlass:Upto600×2400dpiApprox Connectivity:Hi-SpeedUSB2.0 DisplayType:16Chars×2Lines MemoryCapacity:32MBApprox PowerSource:220-240VAC50/60Hz PowerConsumption-Ready:Approx60W	1



			PowerConsumption-Sleep:Approx6.6W PowerConsumption-Off:Approx0.08W NoiseLevel:50dB(A)Approx	
101	Desktop	Branded Company Product with at least three years product warranty	CPU: INTEL CORE I7-12THGEN or Higher RAM:8GB+512GB SSD or more Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR	5
102	3D printer Filament	Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal FilamentLength:330mApprox Dim Accuracy: +/-0.1mmApprox Roundness Accuracy: +/-0.5mmApprox SpoolInnerDia:55mmNominal SpoolOuterDia:200mmApprox SpoolWeight:300gNominal SpoolWidth:65mmApprox	10
103	Acrylic Sheet 3mm, 4ft x 4ft	Very Good Quality		20
104	Acrylic Sheet 4mm, 4ft x 4ft	Very Good Quality		20
105	Acrylic Sheet 5mm, 4ft x 4ft	Very Good Quality		20
106	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2
107	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality		1
108	Foam Sheet 12mm, 4ft x 4ft	Very Good Quality		1
109	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1
110	Ply Board 5mm, 2ft x 4ft	Very Good Quality		12
111	Nylon Rod 10mm, 1m	Very Good Quality		5
112	Nuts (3mm,4mm,5mm , 6mm,8mm,10m m, 12mm) Pack of 100	Very Good Quality		1
113	Bolts (3mm,4mm,5mm ,	Very Good Quality		1



	6mm,8mm,10mm, 12mm) dia 1” Inch Pack of 100			
114	Screws (3mm,4mm,5mm) Pack of 100	Very Good Quality		1
115	Washers (3mm,4mm,5mm, 6mm, 8mm, 10mm, 12mm) Pack of 100	Very Good Quality		1
116	Studs (6mm,8mm) 1 Meter	Very Good Quality		2
117	Nails (1",2",3",1.5",5") Pack of 100	Very Good Quality		1
118	Fevicol 2Kg	Very Good Quality		1
119	2 Way Tape	Very Good Quality		10
120	PVC Pipe .75",10ft	Very Good Quality		10
121	PVC Pipe 1",10ft	Very Good Quality		10
122	PVC Pipe 1.5",10ft	Very Good Quality		10
123	PVC Pipe 2.0",10ft	Very Good Quality		10
124	Aluminium channels (L, C, Box, strip length 12ft)	Very Good Quality		2
125	PCB Drill Bit 0.4mm	Very Good Quality		10
126	PCB Drill Bit 0.8mm	Very Good Quality		10
127	PCB Drill Bit 1mm	Very Good Quality		10
128	Drill Bit 4mm	Very Good Quality		10
129	Drill Bit 5mm	Very Good Quality		10
130	Drill Bit 6mm	Very Good Quality		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	Very Good Quality		3



	Model 4B, 4GB			
135	ESP8266 NodeMCU	Very Good Quality		2
136	ESP32 Development Board	Very Good Quality		50
137	Beaglebone blu	Very Good Quality		1
138	Beaglebone Black	Very Good Quality		1
139	Voltage Regulator Module	Very Good Quality		2
140	Mini Micro submersible Water Pump	Very Good Quality		2
141	Piezoelectric Plate	Very Good Quality		2
142	8*8 LED Matrix Module	Very Good Quality		2
143	Bluetooth Module	Very Good Quality		2
144	7 Segment 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	4×4 Matrix Keypad	Very Good Quality		2
149	Joy Stick Module	Very Good Quality		2
150	Active Buzzer (BIG)	Very Good Quality		2
151	Active Buzzer (SMALL)	Very Good Quality		2
152	Motor Driver	Very Good Quality		2
153	Sound Playback Module	Very Good Quality		2
154	BO Motors	Very Good Quality		10
155	Vibrating Motor	Very Good Quality		10
156	Capacitive Touch Switch	Very Good Quality		2
157	IR Sensors (Obstacle Sensors)	Very Good Quality		2
158	Triple Axis	Very Good Quality		2



	Magnetometer			
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
173	Flex Sensor	Very Good Quality		2
174	Temperature/Humidity Sensor DHT 22	Very Good Quality		50
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 Quality		10
185	Metal Gear Servo Motor (180° Rotation)	Very Good Quality		10
186	Solder Wire 100grm	Very Good Quality		10
187	Solder Flux	Very Good Quality		10
188	830 Points Solderless Breadboard	Very Good Quality		5
189	400 Points Solderless Breadboard	Very Good Quality		5
190	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
195	Magnifying Glass with Stand	Branded Company Product with at least three years product warranty	Voltage: AC110 60Hz/220V 50Hz Power: 22W Magnification: 5x	10
196	Clothe Iron	Branded company Product with at least three years product warranty	1000 W, heavy duty	5
197	Sublimation Printer and Color Ink Jet Printer	Branded Company Product with at least three years product warranty	Complete Setup Sublimation Printing setup, Heat Press Combo 5 in 1 (Vinay printing machine for T-shirt, caprus plate press, mug press with extra mug attachment. Ink Jet Printer with Sublimation Ink and Sublimation Paper 200 Pcs	1
198	Moto Saw	Branded Company Product with at least three years product warranty	Compact 2-in-1 Scroll Saw Specifications Rated Power Input: 70W Voltage: 220–240V (confirm suitability with local supply)	3



			<p>Motor Type: Electric (corded)</p> <p>Cutting Speed: No-load speed of 1,500–2,250rpm</p> <p>Maximum Cutting Depth: 18mm</p> <p>Tool Weight: Approximately 1.10kg</p> <p>Dimensions (L×W×H): About 400×210×370mm</p> <p>Operation Modes: Two-in-one functionality (can be used as a stationary scroll saw or detached for handheld operation)</p> <p>Accessory Quick Change System: Lever for fast and easy blade/accessory changes</p> <p>Noise Level: Sound pressure level approx. 77.3dB(A), sound power level approx. 88.3dB(A)</p> <p>Features:</p> <p>Quick-clamp base for secure attachment to tables/workbenches</p> <p>Designed for straight and curved cuts in wood, laminates, plastics, PVC, and thin metal (ensure correct blade is used for each material)</p> <p>Guide rails/parallel guides for enhanced accuracy</p> <p>Ergonomic grip and compact footprint for ease of use and storage</p> <p>Attachment & Accessories (Sample Set for Tender)</p> <p>Parallel guide attachment</p> <p>2 general purpose wood saw blades</p> <p>2 fine wood saw blades</p> <p>1 metal saw blade</p>	
198	Power Router	Branded Company Product with at least three years product warranty	550W, 33000RPM	1
199	Air Compressor	Branded Company Product with at least three years product warranty	Mini air compressor with spray gun	1
200	Manual PCB Drilling Machine	Branded Company Product with at least three years product warranty	PCB Hand Held Drill Machine	20
201	PCB power Drilling Machine	Branded Company Product with at least three years product warranty	PCB Drill Rotary Machine with stand and adapter, Diamond Coated & Stone Bur Set Engraving, Drilling, Polishing, Grinding, Buffing on Metal, Plastic, Wax.	10
202	Carpentry Boring Bits Kit	Very Good Quality		1
203	USB Cables	Very Good Quality	For connecting Arduino and other development boards	10



204	Glue Sticks	Very Good Quality		50
205	Hack Saw Blades	Very Good Quality	6" and 12"	10 each
206	9V Battery Snaps	Very Good Quality		20
207	LAN Cables	Very Good Quality	For connecting Raspberry Pi	5
208	9V Batteries	Very Good Quality		20
209	File Handles set	Very Good Quality		1
210	Needle Files set	Very Good Quality		2
211	Pipe Vice	Very Good Quality		2
212	Nylon Mallet	Very Good Quality		5
213	Double ended spanner sets	Very Good Quality		2
214	Tool Wall covering Perforator	Very Good Quality		1
215	Tin Cutter with Spring	Very Good Quality		10
216	Tongue and Groove Pliers	Very Good Quality		5
217	Fish Tape	Very Good Quality		2
218	Flashlights	Very Good Quality		2
219	Solder Wick	Very Good Quality		10
220	Glass Cutter	Very Good Quality		1
221	Gypsum	Very Good Quality		10 kg
222	Ratchet clamp	Very Good Quality	8 inches/200mm	10
223	Anvil	Very Good Quality		
224	ESP32 CAM Development Board	Very Good Quality	WiFi + Bluetooth with OV2640 Camera Module	10
225	Solnoi Electronics Raspberry Pi 3 Camera Module	Very Good Quality	Night Vision Camera	01
226	Tool Box	Very Good Quality	5- compartment cantilever tool-box, Material – Iron; Dimensions: 450 X 200 X 205 mm; Industrial Use; Rust and Water proof.	12

5. Eligibility and Qualification Criteria

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

Bidders must demonstrate relevant experience by submitting a minimum of three Purchase Orders (executed within the last five years) for similar equipment supplied to academic, R&D,



or industrial institutions. A list of at least five institutional clients (with contact information) must be provided as a reference.

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

6. Financial Criteria

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

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

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

7. Evaluation and Award of Contract

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

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

8. Warranty and After-Sales Service

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

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



9. Payment Terms

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

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

10. Other Conditions

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

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

11. 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, installation & demonstration.
- ❖ The price bid must be submitted in a separate sealed envelope to:

The Principal
SVKM's Dwarkadas J. Sanghvi College of Engineering
No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada,
JVPD Scheme, Vile Parle West,
Mumbai, Maharashtra 400056

Clearly marked as "Technical Bid" & "Financial Bid" on the envelopes.

12. Qualification Requirements

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

13. Other Standard Forms

The following forms must be submitted:

- Non-black listing form (annexure 3)



Shri Vile Parle Kelavani Mandal'S

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Empowered Autonomous) Affiliated to the University of Mumbai



- Bid Security Declaration (annexure 4)

14. Submission Deadline and Contact Details

All quotations must be submitted in hard copy by 6th October 2024 before 5:00 pm to:

The Principal

SVKM's Dwarkadas J. Sanghvi College of Engineering,

No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada,

JVPD Scheme, Vile Parle West,

Mumbai, Maharashtra 400056



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.

I. TECHNICAL BID FORMAT

Covering Letter (on bidder's letterhead)

To:

The Principal

Dwarkadas J. Sanghvi College of Engineering,

No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada,

JVPD Scheme, Vile Parle West,

Mumbai, Maharashtra 400056

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)
- Copies of PO's for last 3 years confirming the business experience.
- 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)



Shri Vile Parle Kelavani Mandal'S

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Empowered Autonomous) Affiliated to the University of Mumbai



Name of Person

Designation

Contact no.

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

Name:

Designation:

Signature with Seal:

Date:



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DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Empowered Autonomous) Affiliated to the University of Mumbai



II. COMMERCIAL (FINANCIAL) BID FORMAT

Covering Letter (on bidder's letterhead)

To:

The Principal

Dwarkadas J. Sanghvi College of Engineering,

No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada,

JVPD Scheme, Vile Parle West,

Mumbai, Maharashtra 400056

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- BID Security declaration		
4	Covering Letter for Technical Bid		
5	Certificate of Incorporation / Registration		
6	PAN and GST Registration Copies		
7	OEM Authorization Letter (if applicable)		
8	Copies of POs of last 5 years that reflects experience of the bidder and reference of five institutional clients (with contact information)		
9	Financial Turnover Statement (last 3 years, CA certified)		
10	Product Brochures / Catalogues		
11	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:



Annexure-4

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 **Dwarkadas J. Sanghvi College of Engineering**, 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.

Authorized Signatory:

Name:

Designation:

Company Seal:

Date: