



## **Tender Notice**

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-JNNCE 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 are enclosed with this document. The following Terms and Conditions apply to all bidders participating in the tender. All prospective vendors are required to read and comply with these terms in their entirety.

### **1. General Information**

All equipment and materials must be delivered in the quantities and specifications mentioned in the purchase order issued by the purchaser. The delivery location will be specified in the purchase order (e.g., Jawaharlal Nehru New College of Engineering, Savlanga Rd, Navule, Shivamogga, Karnataka 577204.). The entire contract shall remain valid for a period of three (3) months from the date of award.

- Quotations submitted by bidders must remain valid for a minimum of 90 days from the final date of submission. Any quotation that does not meet this validity period will be considered non-compliant.
- Bids shall be submitted in English only
- 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://www.jnnce.ac.in/jnndemo/idealab.html>
- 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 Shivamogga.

## 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 45–60 days from the date of purchase order.
- A warranty of minimum 3 years must be provided on all supplied equipment's.

## 3. Schedule of Requirements

- The bidder must supply equipment listed under the technical specifications to Jawaharlal Nehru New College of Engineering, Savlana Rd, Navule, Shivamogga, Karnataka 577204.

## 4. Specifications and Allied Technical Details

Sl.No.	Equipment	Quantity	Specifications
<b>Mandatory equipment's</b>			
1.	Laser Cutter	1	Laser Engraving and Cutting Machine 100Watt(F4) Laser Tube Laser Type: Sealed glass CO2 laser Tube Laser Power: 100Watt(F4) Working Area: 600mm x 900mm Resolution: 0.05mm Power Supply: 220v+ 10% / 50Hz Gross Power: 3kW Phase: Single Phase Working Temperature : 0°-40°C Working Humidity: 5-95% (non-condensed water) Cutting Speed: 1-100mm/s Engraving Speed: 1-500mm/s Table: Honey Comb+ Knife Edge Air Supply system: Compressor ACO-006 Exhaust system: Blower 550W Cooling System: Industrial Chiller CW5000 Graphic File Support: PLT, CDR, DWG, DXF, DST, BMP, JPEG, etc. Character Size: Smallest Character formed 1mm x 1mm English Application Material: Non-Metal such as: Acrylic, Soft wood, Paper, Cardboard, Cloth, Leather, Plastic, PVC, Rubber, Ceramic, MDF Plywood, Flat Glass, ABS Sheet (Dual Color)
2.	Vinyl Cutter	1	Cutting Width: 610mm (24 in) 760mm (29.9 in) 1016mm (40 in) 1320mm (52 in) Max. Media Loading Width: 770mm (30.3 in) 920mm (36.22 in) 1270mm (50 in) 1594mm (62.75 in) Number of Pinch Rollers 3 or 4. Media Loading Width 50mm (1.97 in) Acceptable Material Thickness 0.8mm (0.03 in) Drive DC Servo Control Cutting Force 0-600g Max. Cutting Speed 1530 mm / sec (60ips, Diagonal) Acceleration 4.2G (gravity)

Sl.No.	Equipment	Quantity	Specifications
			Distance Accuracy 0.254mm or 0.1% of move, whichever is greater Offset 0-1.0mm (With an increase of 0.025mm) Mechanical Resolution 0.00625mm Software Resolution 0.025mm Repeatability 0.1mm Buffer size 4MB Interfaces USB, Parallel and Serial ( RS-232 C ) Power Supply AC 220V (auto switch) Laser Engrave Option 1 Stand-alone PC with Windows 10 or above, 16GB RAM, 500 GB SSD,Core i9 or equivalent CorelDRAW or similar software  Brand Suggestions: Jaguar
3.	3D Printer	1	Resin base Technology: Low Force Stereolithography (LFS) Build volume (W x D x H): 33.5 × 20.0 × 30.0 cm   13.2 × 7.9 × 11.8 in Layer thickness (Z resolution): 25 - 200 microns. XY resolution: 40 microns. Maximum print speed: 80 mm/h Resin Tank lifetime: 100,000+ layers with any Formlabs material. Printer weight: 24.6 kg   54.3 lb Printer dimensions: 53.3 × 49.5 × 73.1 cm   21.0 × 19.5 × 28.8 in. Software compatibility: Windows 11 and up, macOS X 10.12 and up File types accepted: STL, OBJ, 3MF  Brand Suggestions: Fromlabs Form 4L
4.	3D Scanner	1	Measurement rate: 3,000,000 pts/s (Standard/Line); 1,680,000 pts/s (Fine) Resolution: up to 0.01 mm; Accuracy: up to 0.02 mm (with targets) Volumetric accuracy: 0.02 + 0.04 mm/m (standard); 0.02 + 0.03 mm/m (with scale bar / Galaxy mode) Hole accuracy: up to 0.03 mm; Hole volumetric accuracy: 0.03 + 0.04 mm/m Scanning area: up to 600 × 550 mm (Line mode: 300 mm) Light source: 26 blue laser lines + single blue laser line + 14 blue laser lines Depth/standoff: Standoff 325 mm (Standard/Line), 200 mm (Fine); Depth of field 600–2500 mm Weight & size: ~1.0 kg; 295 × 135 × 75 mm Connectivity: USB 3.0; Operating range: -10 °C to 40 °C Data formats: STL, PLY, OBJ, TXT, XYZ, ASC (customisable) Software: Hexagon Inspire, PC-DMIS, DESIGNER; compatible with PolyWorks, Geomagic/Oqton, Metrologic, etc. Features: Dynamic Scanning, Galaxy mode, Standard/Fine/Line modes, LED feedback, Wireless Scanning Module (option), VDI/VDE 2634-3 certified, automation-ready  Brand Suggestions: ATLASCAN Max
5.	CNC Router	1	Tool Changer Router Machine 6kW Air Cooled spindle with 5pc tool change & break motor Dust Collector X,Y,Z working area: 1300mm x 2500mm x 300mm Resolution: + 0.01/300mm Repeatability: + 0.01mm Table structure: Welding steel structure X structure: 1.25 Helical Rack & pinion with square linear rails 25mm (Taiwan Hiwin) Y structure: 1.25 Helical Rack & pinion with square linear rails 25mm (Taiwan Hiwin) Z structure: Ball screw with linear rails

Sl.No.	Equipment	Quantity	Specifications
			Max. consume power: 8kW Max. rapid: 32 meter/ min Max. working speed: 20 meter/ min Spindle Power: 6kW Auto Tool change (Air cooled spindle) with break motor Spindle speed: 0-18000rpm Working mode: Leadshine Servo Motor and Drive system Working voltage: Single Phase Command mode: G code (mm) Interface: USB (Pen Drive) Motor Type: Leadshine Servo Motor and Drive system Controller: NC Studio nk105 G3 Working Table: T slot Aluminum Table Graphic file format: Art,BMP,TIF,PCX,GIF,JPG,RLF,DXF,DWG,3D Models(3da,3ds,STL) Application Material: MDF, Wood, Acrylic, Foam, PVC, Saag, Plywood, Veneer, Soft Wood, ACP, Cardboard, Fiber, Hard Plastic, etc.
6.	Mini Desktop Lathe cum Milling	1	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, centrally 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)
7.	Handheld High Speed Drilling M/c- 15000 RPM with accessories	2	Rated Input Power: Approximately 500 W or above maximum power consumption. Bit Holder: Standard 1/2"-20 UNF thread type. No-Load Speed (1st Gear): Adjustable from 0 up to approximately 3,000 rpm. Power Output: Approximately 300 W continuous output power. Weight: Approximately 1.7 kg total device weight. Impact Rate at No-Load Speed: Variable from 0 up to approximately 48,000 bpm. Rated Torque: Approximately 1.4 Nm maximum torque output. Drill Spindle Connecting Thread: Standard 1/2"-20 UNF thread. Chuck Capacity (Min/Max): Approximately 1.5 mm minimum to 13 mm maximum.
8.	Benchtop Grinder Machine	1	Type: Corded or Cordless High-Speed Rotary Drill Motor Power: 500W – 800W Speed: 15,000 RPM (Variable Speed Control preferred)

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			<p>Grinding wheel diameter: 150mm minimum  Chuck Type: Keyless, 6mm–10mm chuck capacity  Drill Bit Compatibility: Wood, Metal, Plastic, and Masonry Bits  Voltage: 220V–240V (for corded); 18V–20V battery (for cordless)  Grip: Ergonomic, anti-slip grip  Accessories Included:</p> <ul style="list-style-type: none"> <li>• Drill Bit Set (HSS, Masonry, Wood, and Metal Bits)</li> <li>• Flexible Shaft for Precision Work</li> <li>• Depth Gauge</li> <li>• Auxiliary Handle</li> <li>• Safety Goggles and Gloves</li> </ul> <p>Safety Features: Overload protection, Thermal shutdown  Brand Suggestions: Bosch, Dewalt, Makita, Black+Decker</p>
9.	Solder stations	5	<p>Temperature Controlled Digital Soldering Station With Sleep Mode, Digital Temperature Readout for Set/Run Modes.MCH Solid State Element used as compared to winding element used in other's products.  Temperature Range: 200 to 480 deg C.  Package Includes: Soldering iron, station, stand with sponge, supply cord Input 230V AC  Power Consumption 60Watts, Type Digital Control</p>
10.	Desoldering M/c	1	<p>Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range.  Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ±2 °C.  Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included.  Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits.  DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current plus 5 V USB output for auxiliary power.  Control: Microcontroller-based system with LED indicators for temperature and mode selection.  Safety: ESD-safe design compliant with applicable standards.  Build: Metallic body with powder coating, approximate dimensions 280 mm × 180 mm × 140 mm (W × H × D).  Weight: Approximately 3.5 kg.  Power Source: AC 220 V ±10%, 50/60 Hz.  Accessories: Includes soldering iron with needle bit, hot air blower with 3 nozzles, iron stand with sponge, hot air cradle, patch cord, and power cord.  Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C</p>
11.	Computerized Sewing Machine	1	<p>Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight:7.6 kg Number of Stitches:120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles:7 LCD Screen Display: Yes Bed Type Free Arm/Flatbed convertible Bobbin Type Drop &amp; Sew Bobbin System</p> <p>Brand Suggestions: USHA</p>
12.	Wood Lathe	1	<p>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</p>

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			Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850 m
13.	Power Tools	1	Drill Machine: Cordless, 18V–20V, Variable speed, Keyless chuck Angle Grinder: 750W–1,000W, 4-inch disc, Safety lock Circular Saw: 1,500W, 7.5-inch blade, Adjustable depth and angle Jigsaw: 700W, Variable speed, Orbital function Heat Gun: 2,000W, Temperature range 50–600°C Sander: Orbital sander, 300W–500W  Brand Suggestion: Bosch
14.	Portable Welding M/c	1	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
15.	Refrigerator	1	Capacity: 253L (Double door for larger requirements) Energy Rating: 4-star or higher Cooling Type: Direct cool or frost-free Compressor Type: Inverter compressor Temperature Control: Digital  Brand Suggestions: LG, Samsung, Whirlpool
16.	Normal and Microwave Oven	1	Microwave Oven: <ul style="list-style-type: none"> <li>Type: Convection Microwave</li> <li>Capacity: 30L</li> <li>Power Rating: 900W–1,500W</li> <li>Control: Digital Touch Panel</li> </ul> Brand Suggestions: IFB, LG, Samsung, Morphy Richards
17.	Magnifying Glass with Stand	1. 2	2. Lens Diameter: 5 inches Magnification: 3X to 10X Lighting: LED with adjustable brightness Stand Type: Adjustable gooseneck or clamp base Material: Optical glass lens with metal stand 3. Lens Diameter: 3 inches Magnification: 1.75X Lighting: LED with adjustable brightness Stand Type: Adjustable gooseneck or clamp base Material: Optical glass lens with metal stand  Brand Suggestions: Eschenbach, Carson, Generic Industrial Brands
18.	Digital Microscope	1	Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080, 640x480 Pixel: 30W Focal length: 3-40mm manual adjustment Support Android 4.2 or above/widows/Mac system Connectivity: USB/HDMI/Wi-Fi for display on monitor Screen: 5-inch LCD (optional)



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			Brand Suggestions: Olympus, AmScope, Celestron, Dino-Lite
19.	Mixed Signal Oscilloscope	1	<p>200 MHz Mixed Signal Oscilloscope with 4 Analog Channels and UltraVision II Technology</p> <p>4 Analog Channels with Probes Included</p> <p>Utilize Digital Channels by adding PLA2216 Probe</p> <p>8 GSa/sec Sampling with 100 Million Memory Points</p> <p>9 Inch Touch Screen Display</p> <p>USB, HDMI, and Ethernet Connectivity</p> <p>Auto measurement of 41 waveform parameters; full-memory hardware measurement function</p> <p>A variety of serial protocol triggers and decodes</p> <p>Up to 450,000 frames of hardware real-time and ceaseless waveforms recording and playback functions</p> <p>Independent search, navigation keys, and event table</p> <p>Built-in advanced power analysis software</p> <p>Bode plot for loop test analysis</p> <p>Integrates 7 independent instruments into 1, including a digital oscilloscope, a logic analyzer, a spectrum analyzer, an arbitrary waveform generator, a digital voltmeter, a frequency counter and totalizer, and a protocol analyzer</p> <p>9-inch capacitive multi-touch screen, 256-level intensity grading display, with color persistence</p> <p>Multiple interfaces available: USB HOST&amp;DEVICE, LAN(LXI), HDMI, TRIG OUT, and USB-GPIB</p>
20.	Digital Storage Oscilloscope	1	<p>Digital 2 Channels 1G 100MHz, 7 inch TFT LCD Storage Oscilloscope</p> <p>Package included: 1 x Digital storage oscilloscope 2 x Probes (1:1 and 10:1 can be switched) 1 x Power cable (160cm) 1 x USB cable (140cm) 1 x CD 1 x English user manual 1 x Bag of parts</p> <p>Specifications:</p> <p>Channels: 2 Bandwidth: 100 MHz Sample Rate: 1GS/s Rise Time: <math>\leq 3.5\text{ns}</math></p> <p>Memory Depth: 25 kpts Waveform Acquisition Rate: <math>\geq 2000\text{ wfms/s}</math></p> <p>Vertical Sensitivity: 1mV ~ 10V/div</p> <p>Time-Based Range: 2ns/div ~ 50s/div</p> <p>Storage: Setup, Wave, Bitmap</p> <p>Alternate Interfaces: USB OTG GENERAL CHARACTERISTICS: Power: 100 - 240V AC RMS, 45Hz - 440Hz</p> <p>Display: 7 Inches 64K Color TFT LCD (800 x 480) Product Color: White and Grey</p> <p>Product Net Weight: 2.2 kg Product Size: 306mm x 147mm x 122mm</p> <p>Standard Accessories: Probe x 2 (1x, 10x switchable), Power Cord, USB Cable, PC Software CD</p> <p>Vertical Resolution: 8-bit digital resolution</p> <p>Trigger Modes: Automatic, Normal, and Signal-dependent triggering</p> <p>Protocol Decoding Support: Capable of analyzing I2C, SPI, UART, CAN, and LIN communication protocols</p>
21.	Signal Generator	1	<p>Features of AM/FM/PM/FSK/SUM modulation, sweep, burst and frequency counter, which can be applied to various communication fields.</p> <p>Both channels include 10Vpp output amplitude, 25MHz frequency bandwidth with 1uHz resolution, built-in waveforms of sine, square, ramp (triangle) and noise. As to the 1 to 99% adjustable duty cycle of square waveform can be used as pulse signal sources. For the arbitrary waveform, user can edit the 66 built-in waveforms or create a whole new oneWide frequency range from 1uHz to 25MHz (sine/square wave)1uHz Resolution in full rangeBuilt-in standard 120MSa/s, 10-bit, 4k points arbitrary waveform for both channelsTrue dual-channel output, CH2 provides the same characteristics as CH1</p> <p>Couple, tracking, phase operations of dual channel are supported 1 to 99%</p> <p>Adjustable duty cycle for square waveformHigh resolution and colored TFT LCD with friendly user interfaceMultiple editing methods to edit arbitrary waveform</p>

Sl.No.	Equipment	Quantity	Specifications
			<p>easilyBuilt-in standard AM/FM/PM/FSK/SUM/sweep/burst and frequency counter USB host/device interface for remote control and waveform editingOffers multiple standard waveforms Correlated functions of dual-channel outputs High-flexibility of arbitrary waveforms editing Friendly operating interfaces and instant parameter display 66 built-in arbitrary waveformsSupports multi-change signal applicationProvides USB host/device interface Frequency Stability: The frequency stability shall be within <math>\pm 20</math> ppm (parts per million). Frequency Aging: Frequency aging shall not exceed <math>\pm 5</math> ppm per annum. Display: A 6-digit LED display shall be incorporated for parameter indication. Attenuator: A single-step attenuator of <math>-40 \text{ dB} \pm 1 \text{ dB}</math> shall be provided.</p>
22.	Variable Power Supply	1	<p>Output Configuration: 4-channel design with independent electrical isolation across all outputs Channel Output Ranges:  <ul style="list-style-type: none"> <li>• CH1 &amp; CH2: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A</li> <li>• CH3: Variable range 0 to 5V supporting up to 1A</li> <li>• CH4: Output adjustable from 0 to 15V with a load current of up to 1A</li> </ul>   Constant Voltage Operating Mode  Line Regulation: <math>\leq 0.01\% + 3 \text{ mV}</math> (approximate value within rated voltage range)  Load Regulation: <math>\leq 0.01\% + 3 \text{ mV}</math> (across rated load variation)  Ripple &amp; Noise: <math>\leq 1 \text{ mVrms}</math> across full bandwidth  Constant Current Operating Mode  Line Regulation: <math>\leq 0.2\% + 3 \text{ mA}</math>  Load Regulation: <math>\leq 0.2\% + 3 \text{ mA}</math>  Ripple Current: <math>\leq 3 \text{ mArms}</math> (typical)  Safety &amp; Operational Features  Output Control: Independent output ON/OFF switching functionality is required  Voltage Resolution: Approximately 100 mV  Current Resolution: Approximately 10 mA  Display Parameters  Display Units: Four separate displays required for individual channel status visualization  Display Type: 4.3-inch LCD (color or monochrome as applicable)  Functional Features  Tracking Operation: Supported (required for synchronizing output behavior)  Auto Series/Parallel: Supported (automatic internal reconfiguration required)  Power Requirements Supply Input: 230V AC <math>\pm 10\%</math>, 50 Hz</p>
23.	Benchtop Multimeter	1	<p>DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: <math>\pm(0.03\% \text{ rdg} + 4 \text{ digits})</math>.  Input impedance: 10 M<math>\Omega</math>.  AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: <math>\pm(0.5\% \text{ rdg} + 5 \text{ digits})</math> depending on frequency and range. Input impedance: 10 M<math>\Omega</math>.  DC Current: Range: 500 <math>\mu\text{A}</math> to 20 A across 6 ranges. Accuracy: <math>\pm(0.02\% - 0.3\% \text{ rdg} + 2 \text{ digits})</math> depending on range.  AC Current (True RMS): Range: 500 <math>\mu\text{A}</math> to 20 A across 6 ranges. Accuracy: <math>\pm(0.5\% - 1\% \text{ rdg} + 5 \text{ digits})</math> depending on frequency.  Resistance: Range: 500 <math>\Omega</math> to 20 M<math>\Omega</math> across 6 ranges. Accuracy: <math>\pm(0.1\% - 0.3\% \text{ rdg} + 5 \text{ digits})</math> depending on range.  Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V.  Capacitance: Range: 5 nF to 50 <math>\mu\text{F}</math>. Accuracy: <math>\pm(2\% \text{ rdg} + 4 \text{ digits})</math>.</p>



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			<p>Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold.</p> <p>Continuity Beep: Threshold &lt;5 <math>\Omega</math>.</p> <p>Display: Dual 7-segment LED, 0.4" and 0.5".</p> <p>Power Source: AC 100/120/230 V <math>\pm</math>10%, 50/60 Hz.</p> <p>Resistance Measure Max: 50Mohm</p> <p>Product Range: Current Measure DC Max: 10AVoltage Measure DC Max: 1kVDM</p> <p>Functions: AC/DC Current, AC/DC Voltage, Capacitance, Continuity, Diode, Frequency, Resistance</p>
24.	Projector	1	<p>Education Projector, DLP, 4000 Lumens High Brightness, 20000:1 High Contrast Ratio, Dual HDMI, USB-A, Upto 15000 Hrs Extra-Long Lamp Life, 10 W Speaker.</p> <p>Resolution: 1920 x 1200</p> <p>HDMI Cable 15Mt</p> <p>Motorised Projector Screen 8 Ft. x 6 Ft.</p> <p>Brand Suggestions: Infocus</p>
25.	Heavy Duty Laser Printer	1	<p>Smart, All-in-One, Auto Duplex WiFi, Colour Printer with ADF and FAX, Print, Scan &amp; Cope for Office, Multicolor.</p> <p>Brand Suggestions: HP</p>
26.	PCB Milling Machine	1	<p>PCB Drilling &amp; Milling Prototyping Machine</p> <p>CNC Machine : Single Spindle CNC PCB Drilling– RPT Machine</p> <p>Milling workspace : 140mm (X), 200mm (Y), 40mm (Z)</p> <p>Stepper motor step: 0.004mm</p> <p>Machine dimensions: 380 x 460 x 290 mm</p> <p>Spindle: brushless motor</p> <p>Diameter of spindle: 3.175 mm</p> <p>Connectivity: USB</p> <p>Repeatability: 0.02mm</p> <p>Machine weight: 7kg</p> <p>Max. speed: 170mm/min</p> <p>Max. height of work piece: 40mm</p> <p>Spindle speed: 11000rpm</p> <p>Certification: CE</p> <p>PCB: Auto level</p> <p>Electrical Drive : Servo Motors</p> <p>Clamping System : Bakelite Bed</p> <p>Mechanical Drive : Imported Premium Quality Rolled Ball</p> <p>Accessories (Included in the Package):</p> <p>Coolant tank, Dust collection arrangement</p> <p>Cutable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB, Copper glad, etc</p> <p>Brand Suggestions: Wegstr, Voltera</p>
27.	Computer Workstation in networking- 5 Nos	5	<p>Workstation: 1 Number</p> <p>14th Generation Intel Core i9 processor</p> <p>Intel® Core i9-14900K (up to 6.0 GHz with Intel Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)</p> <p>Windows 11 Pro</p> <p>32 GB DDR5-4800 MHz RAM (1 x 32 GB)</p> <p>4 DIMM</p> <p>NVIDIA GeForce RTX 4070</p> <p>HP 125 Wired Keyboard, 2 DisplayPort 1.4</p> <p>Transfer rates up to 4800 MT/s.</p> <p>1 TB PCIe Gen4 NVMe M.2 SSD</p> <p>1 TB 7200 rpm SATA HDD</p>

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			<p>One (2.5) 6.35 cm HDD; Two (3.5) 8.89 cm HDD; Three M.2 NVME 2280 SSD  NVIDIA GeForce RTX 4070 (12 GB GDDR6X dedicated)  NVIDIA T400 (2 GB GDDR6 dedicated).  Realtek ALC3205-VA2-CG, 2.0W internal mono speaker</p> <p>Workstations: 2 Numbers:  Processor: Intel® Core i9 14th Gen 14900K (36 MB cache, 24 cores, 32 threads, 3.2 GHz to 6.0 GHz, 125W)  Operating System: Windows 11 Pro, English  Chassis Options: Precision 3680 Tower with 1000W (80 Plus Platinum) PSU  Memory: 64GB: 2 x 32 GB, DDR5, 4400 MT/s, non-ECC  Graphics: NVIDIA T1000 8GB, 8 GB GDDR6, 4 mDP to DP adapters  Storage configuration (Boot Drive): C1: M.2 SSD Boot + Optional M.2 SSD (No SATA HDD)  1st M.2 NVMe SSD: 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD  Keyboard: Multimedia Keyboard - US International (QWERTY)  Mouse: Optical Mouse  Power Cord: System Power Cord India 16A  Wireless: Qualcomm WCN6856, 2x2, 802.11ax, MU-MIMO, Bluetooth wireless card, external antenna  Driver: Qualcomm QCA6856 WLAN wireless card driver  PCIe I/O Add-in-cards: Thunderbolt 4, PCIe Add-In Card  Optional 2nd RJ-45 Ethernet Port  Optional 2nd RJ-45 Ethernet Port (2.5GbE)  Optional Integrated Video or USB Ports  Optional USB Type-C PCIe Card, Tower/Small Form Factor  Thermal Cooling: Premium CPU Air Cooler with Air Shroud  Processor Branding: Intel Core i9 Processor Label</p> <p>Laptop Windows WS: 1 Number  Intel Core Ultra 7 processor  Windows 11 Pro  15" diagonal, WUXGA display with NVIDIA RTX A500 Graphics  16 GB DDR5-5600 RAM  1 TB SSD Solid State Drive  5 MP IR camera, Fingerprint reader, Spill-resistant &amp; Backlit Keyboard, Military Standard Tested</p> <p>1 Number: MacBook Pro Laptop with M4 chip (14.2"/16GB/512GB SSD)</p>
28.	Quadcopter assembly kit	1	<p>Quadcopter Drone Combo Kit for beginner (Motor + ESC + Propeller + Flight Controller + Frame + TX-RX flysky fsi6)  PACKAGE INCLUDES:  1 x KK2.1.5 Multi-rotor LCD Flight Control Board  1 x F450 Quadrotor Frame with integrated PCB for easy wiring  4 x 30A Brushless ESC  2 x 1045 Propeller Pair  4 x RC BRUSHLESS MOTOR 2212 1400KV WITH PROPELLER ADAPTOR  1 x Fly Sky FS-i6 2.4G 6CH AFHDS Transmitter With FS-IA6B Receiver for RC FPV Drone  Motor KV BLDC : 1000kv</p>
29.	Smart Board	1	<p>Minimum 86 Inch 8GB, 128GB Interactive Flat Panel, 4K UHD Multitouch Screen Display, Windows 11 and Android. Stand Heavy Duty Best Flat Panel Screen</p> <p>Brand Suggestions: Study'n'Learn, Viewsonic</p>

Sl.No.	Equipment	Quantity	Specifications
30.	Relay modules (Ethernet Controlled relay, Bluetooth controlled relay, Wi-fi controlled relay 8 channel)	1	<p>12V Modbus RTU 4 Channels Relay Module Optocoupler RS485 MCU for Arduino</p> <p>12V Relay Module 4-Channel This is a 12V 4-Channel Relay interface board. Be able to control various appliances and other equipment with a large current. It can be controlled directly by a Micro-controller</p> <p>12V 4-Channel Relay interface board and each one needs 50-60mA Driver Current. Equipped with high-current relay, AC250V 10A ; DC30V 10A.</p> <p>Modbus serial communication</p> <p>Relay switching output</p> <p>Convenient AT command control</p> <p>one-channel Modbus RTU relay module equipped with a stable 8-bit MCU and RS485 level communication chip, adopting standard MODBUS RTU format RS485 communication protocol. It can realize 2-bit input signal detection and provides a 2-bit relay output. It can be used for digital detection or power control occasions.</p> <p>Product Name:1 Bit ModbusRTU Relay Module</p> <p>Working Voltage: DC 12V</p> <p>Working Current:1A</p> <p>Modbus serial communication</p> <p>Relay switching output</p> <p>Convenient AT command control</p> <p>Channels: 8 channels</p> <p>Voltage: 5V DC input, 250V AC or 30V DC output</p> <p>Control Interfaces: Ethernet/Bluetooth/Wi-Fi</p> <p>Load Capacity: 10A per channel</p> <p>Isolation: Optocoupler isolation for safety</p> <p>Communication Protocol: MQTT, Modbus, HTTP API, etc.</p> <p>Brand Suggestions: HiLetgo, Songle, Keyestudio</p>
31.	GPIO Modules (Ethernet Controlled relay, Bluetooth controlled relay, Wi-fi controlled relay 8 channel)	1	<p>Input Voltage: 3.3V–5V</p> <p>Output Signal: TTL logic</p> <p>Communication: Ethernet/Bluetooth/Wi-Fi enabled</p> <p>Supported Protocols: I2C, SPI, UART</p> <p>Load Capacity: 10A per channel</p> <p>Microcontroller Compatibility: Arduino, Raspberry Pi, ESP32</p> <p>Brand Suggestions: Waveshare, Adafruit, HiLetgo</p>
32.	Electric Bicycle Motor & Accessories	1	<p>24v 350watt Electric Bicycle Motor Controller kit with Charger for Electric Conversation of 22"-28" Regular Bicycle.</p> <p>Packing Details -</p> <p>The motor kit includes:</p> <p>1pcs x MY1016Z3 DC 24V 350W motor, 1pcs x Motor controller, 1pcs x Chain, 1pcs x Freewheel, 1pcs x Freewheel adapter, 1pcs x Mounting plate with bolts, 1pcs x Throttle handle &amp; Brake lever, 1pcs x Headlight, 1pcs x Switch &amp; key, 1pcs x 18cm axis + charger.</p> <p>Battery: 24V, 10Ah. With charger</p>
33.	Granite Surface plate (630 X 630 X 80 mm grade "O")	1	Precision Lapped Finish Granite Surface Plate, Unit Size: 630 X 630 X 80 mm grade "O"
<b>Mandatory Consumables</b>			

Sl.No.	Equipment	Quantity	Specifications
34.	Vacuum Cleaner	1	Select WD X2 Wet and Dry 1300 Watts, 22.5 KPa High Power Suction Vacuum Cleaner   Blower Function   Dynamic Dial Power Control   Auto Clean   13 Accessories
35.	Hot Air Gun	5	Rated Input Power: Approximately 1,800 W / 2000 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 600 °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.
36.	Measuring Equipment [Vernier calliper (0-200/0.01), Vernier height gauge (0-1000mm), Micrometer 0-50, 50-100/0.001 inside and outside)], Metal Scale etc..	1	Themisto TH-M61 Digital Vernier Calliper (0-150MM/6"), least count - 0.01mm, Vernier height gauge least count - 0.02mm
37.	Fire Extinguisher	2	ABC Powder Type Fire Extinguisher, 2 Kg
38.	First Aid Box	3	Wall mount metal First Aid Box with Large Size Sterilized Dressing-2, Roller Bandage 5cm, Roller Bandage 10cm, Triangular Bandage, ORS Powder 21.8gm, Cotton Wool 10mg, Burn Ointment 15g, Dusting Powder, Antiseptic Solution 100ml, Adhesive Tape 1/2", Adhesive Tape 1", Band-aid 19*72mm-2, Paracetamol Tab. 500mg, Scissor, Cold Rub, Pain Killer Ointment 10g, Antiseptic Cream, Crepe Bandage 5cm*4mtr, Eye Wash Cup, Sterilized Eye Pads, Large Size Burn Dressing, Safety Pins, Tourniquet, Digital Thermometer, Pocket Torch, Pocket Diary, Ball Pen, Tweezer, FAK Guidebook, FAK Box
39.	Digital Multimeter	5	2 Number: KAIWEETS Smart Multimeter KM602, Large Screen 6000 Count DC/AC Voltage Resistance Conduction Current Capacitance Diode  3 Number: Themisto TH-M98 Digital Multimeter Measurement Capabilities: AC/DC voltage, AC/DC current, resistance, capacitance, frequency, and continuity Display: Backlit LCD with at least 2000 counts Features: Auto-ranging, data hold function, and protective rubber casing.
40.	Clothes Iron	3	1 Number: PHILIPS Stainless_Steel Heavyweight Dry Iron Gc181/8-1000 Watts Power, Black Non-Stick Soleplate, Ergonomic Grip  1 Number: PHILIPS Plastic Perfect Care Power Life Steam Iron Gc 3925/34, 2400 Watts Up To 45 G/Min Steam Output, Optitemp Technology, Steam Glide Plus Soleplate, Drip-Stop And Shut-Off With No-Burns Guaranteed  1 Number: Power 1200W, Adjustable temperature control, non-stick soleplate, steam burst function, and 360-degree swivel cord.
41.	Electronic Component Repository	1	Transistor Tester, LCR ESR Meter, Diode Triode Capacitance Resistance Meter, Multifunction Transistor Capacitor Tester ESR Tester Automatic Checker Detector NPN PNP MOSFET IR.

Sl.No.	Equipment	Quantity	Specifications																																																																																																																
	(LCR Meter, Variac etc)		Variac transformer Single Phase 0-270V 4 Ampere closed Type																																																																																																																
42.	Mandatory Miscellaneous Consumables	<div>List of Mandatory Miscellaneous Consumables</div> <table> <tr> <th>S.No.</th><th>Consumables</th><th>Configuration</th><th>No. Units</th></tr> <tr><td>1</td><td>3D printer Filament/ Resin</td><td>Depending on the printer</td><td>2 rolls / 2L</td></tr> <tr><td>2</td><td>Acrylic Sheets</td><td>2mm,3mm, 4mm, 5mm, All of area 8ft x 4ft</td><td>2 sheets each</td></tr> <tr><td>3</td><td>Foam Sheets</td><td>8mm, 10mm, 12mm, 15mm, All of area 8ft x 4 ft</td><td>2 sheets each</td></tr> <tr><td>4</td><td>Ply Boards</td><td>8mm, 12 mm, 18mm, All of area 8ft x 4ft</td><td>2 sheets each</td></tr> <tr><td>5</td><td>Nylon Rods</td><td>12mm, 15mm, 18mm, 25mm, All of length 1 m</td><td>5 each</td></tr> <tr><td>6</td><td>Nuts</td><td>3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm</td><td>100 each</td></tr> <tr><td>7</td><td>Bolts</td><td>Dia (3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm) length (1", 1.5", 2", 2.5")</td><td>100 each</td></tr> <tr><td>8</td><td>Screws</td><td>3mm, 4mm, 5mm</td><td>100 each</td></tr> <tr><td>9</td><td>Washers</td><td>3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm</td><td>100 each</td></tr> <tr><td>10</td><td>Studs</td><td>6mm, 8mm, Length 1m</td><td>5 each</td></tr> <tr><td>11</td><td>Nails</td><td>1", 2", 3"</td><td>100 each</td></tr> <tr><td>12</td><td>Adhesives</td><td>M-Seal, Feviquick, Fevi Bond</td><td>10 each</td></tr> <tr><td>13</td><td>2Way Tapes</td><td></td><td>20 rolls</td></tr> <tr><td>14</td><td>PVC Pipes</td><td>.75", 1", 1.5", 2.5", 3", Length 10ft</td><td>1 each</td></tr> <tr><td>15</td><td>Aluminum Channels</td><td>L, C, Box, Strip, Length 12ft</td><td>2 each</td></tr> <tr><td>16</td><td>PCB Drill Bits</td><td>0.5mm, 0.8mm, 1mm</td><td>20 each</td></tr> <tr><td>17</td><td>Drill Bits</td><td>3mm, 4mm, 5mm, 6mm,</td><td>20 each</td></tr> <tr><td>18</td><td>Drill Bits</td><td>8mm, 10mm, 12mm</td><td>5 each</td></tr> <tr><td>19</td><td>Carpentry Boring Bits</td><td>Entire Kit</td><td>1 kit</td></tr> <tr><td>20</td><td>Electronic Active and Passive components</td><td>Resistors, Capacitors, diodes and transistors</td><td>10 each</td></tr> <tr><td>21</td><td>USB Cables</td><td>For connecting Arduino and other development boards</td><td>10</td></tr> <tr><td>22</td><td>Radium Cutter Knives</td><td></td><td>10</td></tr> <tr><td>23</td><td>Glue Sticks</td><td></td><td>50</td></tr> <tr><td>24</td><td>Hack Saw Blades</td><td>6" and 12"</td><td>10 each</td></tr> <tr><td>25</td><td>9V Battery Snaps</td><td></td><td>20</td></tr> <tr><td>26</td><td>LAN Cables</td><td>For connecting Raspberry Pi</td><td>5</td></tr> <tr><td>27</td><td>9V Batteries</td><td></td><td>20</td></tr> </table>		S.No.	Consumables	Configuration	No. Units	1	3D printer Filament/ Resin	Depending on the printer	2 rolls / 2L	2	Acrylic Sheets	2mm,3mm, 4mm, 5mm, All of area 8ft x 4ft	2 sheets each	3	Foam Sheets	8mm, 10mm, 12mm, 15mm, All of area 8ft x 4 ft	2 sheets each	4	Ply Boards	8mm, 12 mm, 18mm, All of area 8ft x 4ft	2 sheets each	5	Nylon Rods	12mm, 15mm, 18mm, 25mm, All of length 1 m	5 each	6	Nuts	3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm	100 each	7	Bolts	Dia (3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm) length (1", 1.5", 2", 2.5")	100 each	8	Screws	3mm, 4mm, 5mm	100 each	9	Washers	3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm	100 each	10	Studs	6mm, 8mm, Length 1m	5 each	11	Nails	1", 2", 3"	100 each	12	Adhesives	M-Seal, Feviquick, Fevi Bond	10 each	13	2Way Tapes		20 rolls	14	PVC Pipes	.75", 1", 1.5", 2.5", 3", Length 10ft	1 each	15	Aluminum Channels	L, C, Box, Strip, Length 12ft	2 each	16	PCB Drill Bits	0.5mm, 0.8mm, 1mm	20 each	17	Drill Bits	3mm, 4mm, 5mm, 6mm,	20 each	18	Drill Bits	8mm, 10mm, 12mm	5 each	19	Carpentry Boring Bits	Entire Kit	1 kit	20	Electronic Active and Passive components	Resistors, Capacitors, diodes and transistors	10 each	21	USB Cables	For connecting Arduino and other development boards	10	22	Radium Cutter Knives		10	23	Glue Sticks		50	24	Hack Saw Blades	6" and 12"	10 each	25	9V Battery Snaps		20	26	LAN Cables	For connecting Raspberry Pi	5	27	9V Batteries		20
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43.	Hacksaw	5	Blade Length: 12 inches Frame Material: Steel Handle: Ergonomic grip																																																																																																																
44.	Micro Chisel Set	3	Blade Widths: 1mm, 2mm, 3mm Material: High-carbon steel Handle: Wooden																																																																																																																
45.	Pliers	3	Types Included: Combination, Needle-nose, Diagonal Material: Drop-forged steel Handle: Insulated, non-slip grip																																																																																																																
46.	Manual PCB Drilling Machine	3	Chuck Capacity: 0.4mm to 3.0mm Operation: Hand-operated Features: Precision pin vise																																																																																																																
47.	PCB power Drilling Machine	3	Speed: Up to 12,000 RPM Chuck Capacity: 0.4mm to 3.2mm Features: Adjustable speed, lightweight design																																																																																																																
48.	Cordless Drilling	2	Professional Cordless Drilling machine Torque: Hard: 30 Nm; Soft: 13 Nm																																																																																																																

Sl.No.	Equipment	Quantity	Specifications
	Machines		Battery Voltage: 12-18 V Drilling Capacity (in Steel): Max: 8 mm Variable Speed: Gear 1: 0-380 rpm - Gear 2: 0-1300 rpm No Load Speed: 0-1300 rpm Battery Type: Li-ion Chuck Size: 10 mm Package Contents 1.5 Ah Li-ion Batteries with 1 Charger & Carry case Screw Diameter: Max: 7 mm Rotation both clockwise and counterclockwise Drilling Capacity (in Wood): Max: 20 mm
49.	Jigsaw Machines	2	Power: 500W Speed: Variable speed control Features: Tool-free blade change
50.	Power Circular Saw	2	Power: 1400W Blade Diameter: 185 mm Cutting Depth: Up to 65 mm at 90 degrees
51.	Files Set	2	Types Included: Flat, half-round, round, and triangular Material: High-carbon steel Length: 200 mm Files smooth files one set and rough files one set (for all types of files)
52.	File Handles	1	Material: Hardwood or plastic Size Compatibility: Fits files up to 200 mm Features: Ergonomic design
53.	Needle Files	2	Types Included: Assorted shapes Material: Alloy steel Length: 140 mm
54.	Pipe Vice	2	Jaw Opening Capacity: Up to 75 mm Material: Cast iron Mounting: Bench-mounted
55.	Mini HackSaw	5	Blade Length: 6 inches Frame Material: Aluminum Handle: Plastic grip
56.	Ball Peen Hammer	5	Head Weight: 16 oz Handle Material: Hickory wood Features: Polished face
57.	Steel Shaft Claw Hammer	5	Head Weight: 16 oz Handle Material: Steel with rubber grip Features: Curved claw
58.	Nylon Mallet	5	Head Diameter: 35 mm Handle Material: Wood Features: Non-marring
59.	Rubber Mallet	5	Head Weight: 16 oz Handle Material: Fiberglass Features: Double-faced head
60.	Allen Key Set	3	Sizes Included: 1.5 mm to 10 mm Material: Chrome vanadium steel Features: Ball end design
61.	Dremel multi tool kit	2	Power: 130W Speed: Variable, 10,000 to 33,000 RPM Accessories: Includes 25 attachments
62.	Double ended spanner sets	2	Sizes Included: 6 mm to 22 mm Material: Forged steel Finish: Chrome-plated
63.	12 Piece Open ended Spanner Set	2	Sizes Included: 6 mm to 32 mm Material: Carbon steel Finish: Nickel-chrome



Sl.No.	Equipment	Quantity	Specifications
64.	Belt and Disc Sanding Machine	1	Power: 350W Belt Speed: 1400 RPM Belt Size: 100 mm x 914 mm Disc Diameter: 150 mm Table Tilt: 0° to 45° Features: Dust extraction port, sturdy cast iron base
65.	Scroll Saw Machine	1	Power: 120W Variable Speed: 550 to 1600 SPM Throat Depth: 406 mm Max Cutting Depth: 50 mm Table Tilt: 0° to 45° Features: Tool-free blade changes, dust blower, and port
66.	Tool Wall covering Perforator	3	Material: High-quality steel Perforation Size: Standard 1/4 inch holes Dimensions: 1200 mm x 600 mm Features: Corrosion-resistant coating, compatible with various hooks and holders
67.	Dremel Moto Saw	1	Power: 0.6 Amp Variable Speed: 1500 to 2250 SPM Cutting Depth: 18 mm Features: Detachable coping function, auto-tensioning quick-change mechanism, compact and portable design Included Accessories: Fast clamp base, storage case, multiple blades, vacuum adapter
68.	Bench Grinding Machine/ Grinding Machine	2	1 Number: Angle Grinder 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 Number: Straight Grinder 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.
69.	Power Return Measuring Tape	5	Length: 5 meters Blade Width: 19 mm Features: Auto-lock mechanism, metric and imperial markings, shock-resistant rubber casing
70.	Tri Square 8"	5	Blade Length: 200 mm Material: Hardened steel blade with a cast iron stock Features: Precision-etched markings, right-angle accuracy
71.	Stainless Steel Rule	5	Length: 300 mm Width: 25 mm Thickness: 1 mm Features: Metric and imperial graduations, satin finish for glare reduction
72.	Digital Vernier Caliper	5	Measuring Range: 0 to 150 mm Resolution: 0.01 mm Accuracy: $\pm 0.02$ mm Features: LCD display, stainless steel construction, internal/external/depth measurements
73.	Spirit Level	5	Length: 300 mm Material: Aluminum frame

Sl.No.	Equipment	Quantity	Specifications
			Features: Three vials for horizontal, vertical, and 45° measurements, shock-resistant end caps Spirit level should be of different lengths 5 nos
74.	Dremel Cordless Rotary Tool	1	Battery Voltage: 12V Speed: 5,000 to 30,000 RPM Features: Variable speed control, EZ twist nose cap for quick accessory changes, lightweight design
75.	GPIO Power Router	1	Power: 1200W No-load Speed: 10,000 to 30,000 RPM Collet Size: 6 mm and 8 mm Features: Variable speed control, plunge base, ergonomic handles
76.	Impact Drill	3	Power: 750W Chuck Size: 13 mm keyless Speed: 0 to 3,000 RPM Features: Hammer function, variable speed control, auxiliary handle with depth gauge
77.	Ratchet Set	2	Drive Sizes: 1/4 inch and 1/2 inch Number of Pieces: 40 Material: Chrome vanadium steel Features: Quick-release mechanism, metric and imperial sockets Ratchet sets 1 set of metric and 1 set of inches
78.	Router Bit Starter kit	1	Number of Pieces: 7 Shank Size: 1/2 inch Types Included: <ul style="list-style-type: none"> <li>• 1/4" Straight</li> <li>• 1/2" Straight</li> <li>• 3/8" Radius Roundover</li> <li>• 3/8" x 1/2" Rabbet</li> <li>• 3/8" Radius Cove</li> <li>• 45° Chamfer</li> <li>• 1/2" Flush Trim</li> </ul> Material: Carbide-tipped Features: Durable plastic case for storage
79.	Scroll Saw	1	Power: 1.2 Amp Speed: Variable, 550 to 1,650 SPM Throat Depth: 16 inches Table Size: 16 x 10 inches Table Tilt: 0° to 45° left Features: Integrated LED work light, dust removal system, tool-free blade changes, and on-tool blade storage
80.	Soldering Rework Station	1	Soldering Iron Power: Up to approximately 60 W output power with temperature adjustable within approximately 200 °C to 480 °C range. Heating Element: Needle bit with MCH heater providing rapid heat-up and stable temperature control within ±2 °C. Hot Air Blower Power: Up to approximately 500 W output power with temperature adjustable within approximately 200 °C to 450 °C range, multiple nozzles included. Hot Air Features: Auto-pause function on placement in cradle, airflow adjustable within operational limits. DC Power Supply: Provides output voltage approximately 15 V up to 2 A maximum current plus 5 V USB output for auxiliary power. Control: Microcontroller-based system with LED indicators for temperature and mode selection. Safety: ESD-safe design compliant with applicable standards. Build: Metallic body with powder coating, approximate dimensions 280 mm × 180 mm × 140 mm (W × H × D). Weight: Approximately 3.5 kg. Power Source: AC 220 V ±10%, 50/60 Hz.

Sl.No.	Equipment	Quantity	Specifications
			Accessories: Includes soldering iron with needle bit, hot air blower with 3 nozzles, iron stand with a sponge, hot air cradle, patch cord, and power cord. Operating Temperature: Suitable for ambient temperature approximately 0 °C to 40 °C
81.	Tin Cutter with Spring	10	Length: 200 mm Material: High-carbon steel blades Features: Spring-loaded handles for reduced fatigue, locking mechanism for safety Tin cutter with spring of different lengths 10nos.
82.	Centrifugal Blower	1	Power: 500W Airflow Capacity: Up to 2,500 m³/h Speed: Variable Features: Durable construction, suitable for ventilation and cooling applications
83.	Screwdriver Sets	2	Number of Pieces: 12 Material: Chrome vanadium steel Features: Magnetic tips, ergonomic non-slip handles
84.	Cutting Mats	5	Size: A3 (297 x 420 mm) Material: Self-healing PVC Thickness: 3 mm Features: Non-slip surface, grid lines for precise cutting
85.	Cordless Vacuum Cleaner with Starter Kit	2	Battery Voltage: Rated at approximately 18.0 V nominal voltage. Weight Excluding Battery: Around 1.3 kg without battery attached. Container Volume: Approximately 0.7 liters net capacity. Filter Surface Area: Roughly 55 cm² filtration surface. Maximum Airflow Rate (Turbine): Up to 10 liters per second. Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions. Operating Time (18 V Battery): Typically 7 minutes per Ah of battery capacity.
86.	Micrometer	5	Measuring Range: 0-25 mm Accuracy: ±0.01 mm Features: Ratchet stop, carbide measuring faces, clear scale markings Micrometer at least 1 different measuring range (0 - 150 mm) with distance pieces.
87.	Glue Gun	5	Power: 100W Glue Stick Diameter: 11 mm Features: Fast heating, trigger feed mechanism, includes stand for stability
88.	Air Compressor	1	Tank Capacity: 50 liters Power: 2 HP Maximum Pressure: 8 bar Features: Oil-lubricated pump, pressure regulator, dual outlets
89.	Allen Set Wrench	5	Sizes Included: 1.5 mm to 10 mm Material: Chrome vanadium steel Features: Ball end design for angled entry, comes in a folding holder
90.	Tongue and Groove Pliers	5	Length: 250 mm Material: Drop-forged steel Features: Adjustable jaw positions, non-slip handles
91.	Non-contact voltage tester	5	Voltage Detection Range: 90V to 1000V AC Features: Audible and visual indicators, pocket clip, battery included
92.	Wire Stripper	5	Stripping Capacity: 10 to 22 AWG (2.6 to 0.64 mm) Features: Designed for cutting and stripping wires, with coil spring to reduce hand fatigue, and convenient bending holes for wire looping.
93.	Fish Tape	2	Length: 50 feet (15.24 meters) Tape Width: 1/8 inch (3.175 mm) Tape Thickness: 1/16 inch (1.59 mm) Features: Ideal for routing new wiring through walls and electrical conduit.
94.	Flashlights	2	Type: LED rechargeable flashlight Brightness: At least 1000 lumens Features: Multiple lighting modes, water-resistant design, and durable aluminum

Sl.No.	Equipment	Quantity	Specifications
			body.
95.	DC Regulated Power Supply	3	Output Voltage: 0-30V Output Current: 0-5A Features: Digital display for voltage and current, adjustable knobs, and short circuit protection.
96.	Solder Wick and Soldering Mat	10	10 Numbers: Width: 1.5 mm Length per Roll: 1.5 meters Features: Oxide-free copper wire, fast wicking action, and anti-static packaging.  10 Numbers: Premium Heat Resistant 932°F Silicone Soldering Mat, Large Anti Static Magnetic Electronic Repair Work Mat for BGA and Gun Soldering Iron, Workbench, PCB board Electronic Repair, 17.7 x 11.8 inch
97.	Filament Dehydrator	1	Compatible Filament Diameters: 1.75 mm and 2.85 mm Temperature Range: 35°C to 55°C Features: Adjustable temperature and time settings, even heat distribution, and sealed chamber to maintain low humidity.
98.	Reflow Oven	1	Maximum PCB Size: 300 mm x 320 mm Temperature Range: Room temperature to 300°C Features: Multiple soldering profiles, digital control panel, and uniform heat distribution with infrared and hot air circulation.
99.	Glass Cutter	1	Cutting Wheel Material: Tungsten carbide Cutting Thickness Range: 2 mm to 12 mm Features: Ergonomic handle, oil-fed design for smooth scoring, and replaceable cutting head.
100.	Gypsum (10kg)	10	Type: Fine powder Purity: Minimum 90% calcium sulfate hemihydrate Features: Quick-setting, suitable for creating molds and casts with a smooth finish.
101.	Oscilloscope	4	Bandwidth: 100 MHz Channels: 2 Sampling Rate: 1 GSa/s Features: Color LCD display, USB connectivity, and multiple triggering options.
102.	C-Clamp	10	Jaw Opening Capacity: 6 inches Throat Depth: 3 inches Material: Malleable iron frame with steel screw Features: Swivel pad for even pressure distribution and large handle for better grip.
103.	Ratchet clamp 8 inches/ 200mm	10	Clamping Capacity: 8 inches Material: Reinforced nylon body with steel bar Features: Quick-release button, non-marring pads, and ergonomic trigger for easy operation.
104.	Baby Vice 60 mm	5	Jaw Width: 60 mm Jaw Opening Capacity: 50 mm Material: Cast iron body with steel jaws Features: 360-degree swivel base and anvil horn for shaping.
105.	Bench vices	5	Jaw Width: 100 mm Jaw Opening Capacity: 125 mm Material: Ductile iron body with serrated steel jaws Features: Swivel base with lockdown, large anvil work surface, and replaceable jaws.
106.	Anvil	1	Weight: 50 kg Material: Drop-forged steel Face Dimensions: Length: 21.5 inches; Width: 4 inches Horn Length: 6 inches Features: Single horn design with a large, flat working surface; suitable for

Sl.No.	Equipment	Quantity	Specifications
			bending, shaping, and forging tasks.
<b>Optional Equipment's</b>			
107.	Sensor set including sensors for Home/ Industry/ Agriculture Automation, Medical diagnosis	20	DHT11 Temperature and Humidity Sensor Module, HC-SR501 Human Infrared Sensor Module, DS1302 Real Time Clock Module, Rain Sensor Module ( with 2 Accessories ), Sound Sensor Module, HC-SR04 Ultrasonic Sensor Module, Flame Sensor Module, KY-008 Laser Sensor Module, Photoresistor Sensor Module, One Channel TCRT5000 Tracing Module, Obstacle Avoidance Sensor Module, Shock Sensor Module, MQ – 2 Gas Sensor Module, Tilt Sensor Module, YL – 69 Soil Moisture Sensor Module ( with 2 Accessories ), 315M Wireless Transceiver Module ( Transmitting Module + Receiving Module ). Real time clock, Joystick, 5v relay, Big sound, Small sound, Tracking, Avoidance, Water sensor, Flame sensor, Linear hall, Touch sensor, Digital temperature, Active buzzer, Passive buzzer, rgb, Ultrasonic sensor, Two color led, Mini two color led, Reed, Mini reed, Mpu 6050, Heartbeat, 7 Color led, Mp1584en, Push button, Shock sensor, Rotatory encoder, Light cup, Tilt switch, Ball switch, Photo resistor, Gas sensor, Analog hall, Magnetic hall, Temp 18b20, Analog temp, IR Receiver, Light blocking, Sd card reader, IR emitter, Temp and humidity, Laser emitter, Smd rgb, Soil moisture sensor, Tap module, Breadboard power supply.
108.	Arduino UNO boards ( 10 sets including USB A to B cable+ male – male connecting wires+ female to female connecting wires+ male – female connecting wires) and NodeMCU	10	Arduino Uno R3, High-Quality Retail Box, USB cable, 65 x Jumper Wires, Breadboard, 15 x LED (Red, Green, Yellow), 30 x Resistance(220R, 10K, 1K), 10 pin Dupont Line(Male to Female), Potentiometer, Active Buzzer, Passive Buzzer, 74HC595N, Infrared Receiving Head, LM35DZ, 3 x 5mmLDR, 5 x Button Switch With Cap or 4 x Button Switch With Cap, IR Remote Control, One Digital Tube, Four Digital Tube, 8*8 Dot Matrix Tube, UNL2003 Driver Board, 5V Stepper Motor, SG90 Servo Motor, 9V Battery Box, UNO Proto Shield Prototype Expansion Board with SYB-170 Mini Breadboard. Ai Thinker NodeMCU-ESP8266 Development Board, ESP32-CAM-MB WiFi Bluetooth development Board with OV2640 camera micro USB connection to serial
109.	Raspberry Pi 4 boards (05 sets including HDMI – mini HDMI connector, Memory card of 8 GB, adaptor, casing)	5	Raspberry Pi Model 4, 8GB RAM Board, Official Power Adapter, Official Case, 32GB SD Card Noobs Pre-installed, mHDMI Cable, LAN Cable, HeatSink Pack of 3.
110.	Solnoi Electronics Raspberry Pi 3 Camera Module Night Vision Camera (5 sets)	5	Solnoi electronics camera module with infrared IR night vision webcam, video 1080p, 720p, ribbon cable, electronic components electronic hobby kit.
111.	Jetson Nano Orin Developer kit	1	NVIDIA Jetson Orin Nano Module, 8GB JETSON-ORIN-IO-BASE base board, Cooling Fan, 256GB/128GB NVMe SSD, AW-CB375NF dual-band wireless network card, USB cable, Ethernet cable, Power supply, etc.

Sl.No.	Equipment	Quantity	Specifications
	-8GB		
112.	Computers	20	Intel Core i7-13700(up to 5.2 GHz with Intel Turbo Boost Technology, 30MB L3 cache, 16 cores, 24 threads), 16 GB DDR4-3200 RAM,NVMe SSD 1 TB,WLAN wireless, 180W Gold certified power, Windows 11, 20 inch Full HD Monitor
113.	T shirt and mug printing machine	1	Heat Press 5in1 machine, Printer L130 with sublimation ink, Sublimation paper 1000 page, Heat tape 4 Pcs, 30 Pcs Sample T-Shirt (Polyester T-Shirt -10, Cotton Feel T-shirt -10, DotKint T-shirt -10), Mouse Pad- 10 Pcs,Hats- 10 Pcs, Caps- 10 Pcs
114.	TV	1	100 inch, 4K Ultra HD, Smart TV with Connectivity: 2 HDMI   2 USB   Wi-Fi   Bluetooth v5.3   1 SPDIF   2 RF Antenna Input

## 5. Bid Submission Guidelines

The bid must be submitted strictly in the bid submission format provided in **Annexure-1**. All prices must be inclusive of taxes, delivery, installation, training, and three-year warranty.

Bids may be submitted either via email (digitally signed) or in hard copy form, as specifically mentioned in the tender notice. Each bid must be complete in all respects and must include the mandatory documents listed in **Annexure-2**.

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

## 6. Technical Documentation and Compliance

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

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

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

## 7. 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.

The OEM must also submit a declaration confirming the availability of spare parts for the quoted products for a minimum of one year and authorize the bidder to participate in the tender.

## **8. Financial Criteria**

Each bidder must submit the **last three financial years** (FY 2022–23, 2023–24, 2024-25) **turnover**, 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.

## **9. 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 final recommendation shall be granted by the Institute Purchase Committee.

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.

## **10. 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.

## **11. Payment Terms**

Payment shall be released as per NES management guidelines regarding **supply, installation, training 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.

## **12. 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.

## **13. Submission Deadline and Contact Details**

All sealed quotations must be submitted by 25/09/2025, no later than 5:30 PM, and addressed to:

**The Principal  
Jawaharlal Nehru New College of Engineering  
Savlanga Rd, Navule, Shivamogga, Karnataka 577204.**

For clarification, if any:

Contact: Dr. S Pramod Kumar, Associate Professor, Dept. of ECE, JNNCE, Shimoga.

Ph.+91 9900312176, Email. pramodkumars@jnnce.ac.in

Mr. V. K. Deepankar, Assistant Professor, Dept. of RAI, JNNCE, Shimoga.

Ph.+91 7619137666, Email. dsvk@jnnce.ac.in

Dr. Chethan G S, Assistant Professor, Dept. of ISE, JNNCE, Shimoga.

Ph.+91 9620437666, Email. chethan.gs@jnnce.ac.in

**Format for Bid Submission**

Covering Letter (on bidder's letterhead)

To: The Principal, Jawaharlal Nehru New College of Engineering, Savlanga Rd, Navule, Shivamogga, Karnataka-577 204.

Bidder Information:

- Company Name:
- Registered Address:
- Contact Person:
- Email ID:
- Mobile Number:
- Legal Status: (Proprietorship / Partnership / Pvt Ltd / Public Ltd / Others)
- PAN & GST Numbers:

Price bid format (to be filled as per below template):

Sl.No.	Item Description	Make and Model	Specification	Quantity	Unit Price	GST%	Total Price (INR)

- Service & Warranty Details: Minimum warranty offered 3 years, after-sales support details.
- Service escalation matrix (compulsorily to be provided by the vendor)

Authorized Signatory:

Name:

Designation:

Signature with Seal:

Date:

**CHECKLIST**

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

Sl. No.	Document Description	Attached (Yes/No)	Page No. / Reference
1.	Annexure 1-Bid submission. Declaration of agreed specifications on company letterhead, duly signed and stamped.		
2.	Annexure 3- Mandatory Vendor Declaration		
3.	Annexure 4-Declaration of Non-Blacklisting		
4.	Annexure 5- Declaration on Non-Chinese and/or non-Pakistan Origin of Equipment / Instruments / Machinery		
5.	PAN and GST Registration Copies		
6.	Copy of the company/ firm registration certificate		
7.	Copy of submitted GST return (at least up to June 2025).		
8.	Financial Turnover Statement (last 3 years, CA certified)		
9.	Income tax return acknowledgements for FY 2022-23, 2023-24 and 2024-25.		
10.	Work completion or experience certificates (3 years minimum)		
11.	Valid shop establishment license or factory license		
12.	OEM Authorization Letter (if applicable)		
13.	Product Brochures / Catalogues		
14.	Service Support Details & Escalation Matrix		

**Declaration:**

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

Authorized Signatory:

Name:

Designation:

Signature with Seal

Date:

### **Mandatory Vendor Declaration**

I/We, M/s \_\_\_\_\_, the undersigned, hereby declare and confirm the following in connection with the submission of our bid for the supply of equipment under the IDEA Lab initiative:

1. We affirm that we/our firm/our company are not in any way affiliated with or officially associated with the All India Council for Technical Education (AICTE).
2. We further declare that the use of the AICTE name, IDEA Lab name, or IDEA Lab logo in any form, material, or communication by us is strictly prohibited unless explicit written approval/authorization is granted by AICTE.
3. We agree to comply fully with the above requirements. Any violation of this declaration may result in immediate rejection of our bid and/or blacklisting from future tendering processes.

We hereby certify that the above declaration is true and correct to the best of our knowledge and belief.

**Authorized Signatory:**

Name:

Designation:

Company Seal:

Date:

**Declaration of Non-Blacklisting**

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

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I/We, M/s \_\_\_\_\_, having our registered office at \_\_\_\_\_, do hereby declare that:

1. We have not been blacklisted or debarred by any IITs/ NITs/ Government Departments, 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.

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**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)

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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, Jawaharlal Nehru New College of Engineering, shall be at liberty to terminate the contract and forfeit our security deposit/performance guarantee without notice.

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**Authorized Signatory:**

Name:

Designation:

Company Seal:

Date: