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Five times consecutively in Platinum Category Institute rating by AICTE CII survey (2016 to 2020)

Warananagar, Pin-416113 Tal-Panhala, Dist.-Kolhapur, M.S., India, Phone : 02328-224012/13, Fax : 02328-223507
E-mail : principal@tkietwarana.ac.in Website : www.tkietwarana.ac.in No. 3283

an Iso 3001 : 2000 Certified Institute : Recognized by Govt. of Maharashtra ; Approved by AICTE, New Delhi ; Affiliated to shivaji University, Kolhapur

Ref: TKIET/off/15/2025-26

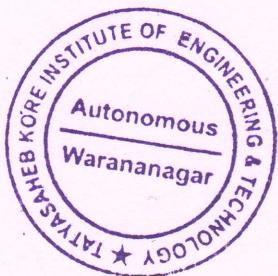
Monday, January 12, 2026

Tender Notice

SWVSM's Tatyasaheb Kore Institute of Engineering and Technology, Warananagar are hereby invites Sealed hard copy/Online tenders from OEMs or authorized partners/distributors for the supply, installation of equipment, tools, and machines for **Establishment of a RAVINDRA SAKHARPE AICTE IDEA Lab (Idea Development, Evaluation & Application)** at our institute.

The prospective suppliers, OEMs or authorized partners/distributors are requested to download the tender document from our official website <https://www.tkietwarana.ac.in/> Completed tenders, along with requisite credentials, can be submitted in hard copy in the prescribed format, enclosed in a sealed cover to the Chief Executive Officer, Shree Warana Vibhag Shikshan Mandal , Warananagar, Tehsil Panhala , District Kolhapur, 416113 on or before **Saturday, January 31, 2026**.

Bidders should also submit the tender through email with digital signature and sign on or before **Saturday, January 31, 2026** to the Idea Lab coordinator (idealab@tkietwarana.ac.in).



Chief Mentor

RAVINDRA SAKHARPE AICTE IDEA Lab
TKIET, Warananagar

PROFORMA FOR TECHNICAL BID (PART - I)

Sr. No.	Particulars	To be filled in by the tenderer
1	Name of the Agency	
2	Date of establishment of the agency	
3	Detailed office address of the Agency with Office Telephone Number, Fax Number and Mobile Number and name of the contact person.	
4	Whether the firm is registered under Company Act, partnership or proprietorship. (Copies of all certificates of registration to be enclosed.)	
5	PAN/TAN Number(copy to be enclosed)	
6	GST Registration Number (copy to be enclosed)	
7	Details of material/equipment supplied to government offices/ Institutes/Industries if any	
Place:		
Date:		Signature of the Bidder Office Seal

FORMAT OF FINANCIAL BID
(Part - II)

Name of the Firm: _____

Quotation for purchase

Sl. No.	Name of Item	Features & Specifications	Brand	Qty.	Rate Per Unit (including GST)	Amount (in Rs.)
01.						
02						
03						
	Total					
Total Amount in Rupees only)						

1. We agree to supply the above-mentioned items in accordance with technical specification for a total contract price of ` (in words Rupees) including all taxes (GST, customs, etc.), transportation, packaging, insurance, unloading, installation, commissioning, and training charges. etc. within fifteen days of the issue of supply order.
2. We also confirm that the normal commercial warranty/guarantee shall apply to the supplied items.
3. We also agree and abide with the terms and conditions stipulated in the bid document.

(Signature of Bidder with Seal) Name:

Designation:

Address:

Contact No.

Date:

Terms and Conditions

The following Terms and Conditions apply to all bidders participating in the tender for the supply, installation, and commissioning of equipment, tools, and machines for the establishment of an **RAVINDRA SAKHARPE AICTE IDEA Lab**. 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 as mentioned in the purchase order issued by the TKIET Warananagar. The bidders will supply the equipment's/materials at the Tatyasaheb Kore Institute of Engineering and Technology, Warananagar, Tehsil Panhala, District Kolhapur, 416113.

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.

2. Bid Submission Guidelines

Bids can be submitted in hard copy/Online on or before Saturday, January 31, 2026

- a. The cover should contain all the prime eligibility documents along with all pages of the tender document with the signature of the tenderer and it should be tightly sealed.
- b. The envelopes should be superscripted at the top of the cover as "**Establishment of a RAVINDRA SAKHARPE AICTE IDEA Lab (Idea Development, Evaluation & Application)**" at Tatyasaheb Kore Institute of Engineering and Technology, Warananagar, Tehsil Panhala, District Kolhapur, 416113. under the **All India Council for Technical Education (AICTE)**.
- c. Completed tenders, along with requisite credentials, can be submitted in hard copy format in the prescribed format, enclosed in a sealed cover, to the Chief Executive Officer Shree Warana Vibhag Shikshan Mandal, Warananagar, Tehsil Panhala, District Kolhapur, 416113.

Bidders can also submit the tender in the prescribed format through email with digital signature and sign to the Idea Lab coordinator (idealab@tkietwarana.ac.in).

All quotations must be printed on the bidder's official letterhead and duly signed by an authorized representative.

Each bid must be complete in all respects and must include the following mandatory documents:

- Detailed Profile of the Bidder, highlighting experience and key competencies.
- Copy of the Company/Firm Registration Certificate.
- Copy of valid GST Registration Certificate.

- Copy of submitted GST return (at least up to November 2025).
- Copy of valid PAN Card.
- Chartered Accountant's Certificate for turnover for FY 2022–23, 2023–24 and 2024–25.
- CA-certified and audited Balance Sheets and Financial Statements (Form 3CB/3CA) for the last three financial years.
- Copies of Work Completion or Experience Certificates of similar completed works.
- Valid Shop Establishment License or Factory License.
- Genuine Manufacturer Authorization Form (MAF), which will be subject to verification with the respective OEM.
- Bidders should provide an Escalation Matrix for service and after sales support.
- Valid EPF, ESIC, and Professional Tax Registration Certificates (where applicable).
- Income Tax Return Acknowledgements for FY 2022–23, 2023–24 and 2024–25.
- Declaration/Affidavit (on ₹500/- Stamp Paper) regarding no blacklisting from IITs/NITs/Govt. Offices/PSUs/Autonomous Bodies.
- Complete, signed, and stamped tender document including amendments and deviation sheets, if any.
- Declaration of agreed specifications on company letterhead, duly signed and stamped.
- Any other documents in support of technical eligibility.

3. 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.

4. 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.

5. Warranty and After-Sales Service

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 distributor must submit a certificate confirming the presence of such a service support facility in India.

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 Tatyasaheb Kore Institute of Engineering and Technology, Warananagar. All associated transportation, testing, and labor costs shall be borne by the bidder.

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. 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.

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 and 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 by the committee constituted by the Chief Executive Officer, SWVSM's Shree Warana Vibhag Shikshan Mandal, Warananagar, Tehsil-Panhala, District - Kolhapur, 416113.

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 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 Shree Warana Vibhag Shikshan Mandal, Warananagar, and shall be binding on all parties.

8. 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 Institutional 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.

9. Penalty Clauses

Failure to construct in terms of quality, quantity, and as per the requirements will attract penalty. For not adhering to contractual conditions, Shree Warana Vibhag Shikshan Mandal, Warananagar, shall be free to impose a monetary fine as deemed fit on the supplier. Fines imposed shall be remitted by the supplier to the Institute account or else the same shall be adjusted from the Security Deposit.

- a) If any consequential damages occur while carrying out the installation work, the damage incurred so should be borne by the tenderer. Quantum of liquidity damages assessed by the Shree Warana Vibhag Shikshan Mandal, Warananagar shall be final and non-challengeable by the supplier.
- b) PENALTY FOR DELAY IN supply of Goods: - Supply of the Machinery & Instruments has to be completed within the schedule. For any delay in completing the work, a delay of every week or part thereof, an amount equivalent to 0.5 % subject to maximum of 12% of the contractor's claim made for the execution will be deducted from the amount payable in the settlement of the claim at the discretion of the Chief Executive Officer.
- c) The Chief Executive Officer, Shree Warana Vibhag Shikshan Mandal, Warananagar shall be the Competent Authority regarding the imposition of penalty and quantum of the penalty and his decision shall be final.

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.

List of Equipment's Required for RAVINDRA SAKHARPE AICTE IDEA Lab

Sr. No.	Equipment Name	Preferred brands if any	Specifications	Qty.
1.	CNC Router Machine with Water bed	Branded Company Product with at least three years product warranty	<p>Spindle -6 KW with 24000 rpm Water Cooled</p> <p>X axis Stroke- 1500 mm</p> <p>Y Axis Stroke -3000 mm</p> <p>Z Axis Stroke -350 mm Working Area 1500 mm X 3050 mm</p> <p>Industrial Chiller (Compressor Based)</p> <p>X, Y, Z Structure- Rack & Pinion, Ball Screw & Linear Guide</p> <p>Table Type - T Slot Table with Water Bed</p> <p>DSP-NK 105 G2</p> <p>Motors & Drives -Stepper Motors with Drives</p> <p>Rack & Pinion – OEM</p> <p>LM Guide - OEM</p> <p>Dust Collector</p> <p>Machine Working Voltage -3 Phase With Cutting Tool Set</p> <p>Stabilizer- 10 kva Servo based Three Phase Stabilizer</p>	01
2.	CO2 Laser Engraving & Cutting Machine	Branded Company Product with at least three years product warranty	<p>Working Area - 1220 mm x 1220 mm</p> <p>Laser Type Glass - Tube (OEM Based)</p> <p>Laser Power - 130 Watt (Peak power 150W)</p> <p>Wavelength - 10.6 μm Supply</p> <p>Voltage AC - 220 V \pm10%</p> <p>Reposition Accuracy- \pm 0.05mm</p> <p>Cooling -Water Cooled</p> <p>Work Environment Temp: - 0$^{\circ}$ C to 45$^{\circ}$ C.</p> <p>Humidity: - 5% ~ 95%</p> <p>Acceleration Speed -1 G</p> <p>Graphic File Support- PLT, CDR, AI, DWG, DXF, DST, BMP, JPEG, TIFF, GIF, PCX etc.</p> <p>Memory -256 mb</p>	01

3.	3D Printer Branded Company Product with at least three years product warranty		<p>a) Advanced High-Speed FDM 3D Printer</p> <table border="1" data-bbox="795 265 1298 1747"> <thead> <tr> <th>Specification</th><th>Details</th></tr> </thead> <tbody> <tr> <td>Build Volume</td><td>256 × 256 × 256 mm³ (large print area)</td></tr> <tr> <td>Hot End</td><td>All-metal hot end (up to ~300 °C)</td></tr> <tr> <td>Nozzle</td><td>0.4 mm included (optional: 0.2/0.6/0.8 mm)</td></tr> <tr> <td>Max Hot End Temp</td><td>~ 300 °C</td></tr> <tr> <td>Build Plate</td><td>PEI textured plate (included); other Bambu plates supported</td></tr> <tr> <td>Max Build Plate Temp</td><td>~ 100 °C</td></tr> <tr> <td>Max Speed</td><td>Up to 500 mm/s rapid moves</td></tr> <tr> <td>Acceleration</td><td>Up to ~10 m/s²</td></tr> <tr> <td>Supported Filaments</td><td>PLA, PETG, TPU, PVA ideal; ABS/ASA/PC/PA</td></tr> <tr> <td>Sensors</td><td>Filament run-out, filament odometry, tangle sensor, power-loss recovery</td></tr> <tr> <td>Camera</td><td>Low-fps camera (1080p) with time-lapse support</td></tr> <tr> <td>Calibration</td><td>Full-auto (Z-offset, bed levelling, nozzle pressure)</td></tr> <tr> <td>Additional Features</td><td>Active Flow Rate Compensation, noise-reducing motors, quick-swap nozzles</td></tr> <tr> <td>Dimensions & Weight</td><td>~ 385 × 410 × 430 mm; ~8–13 kg (varies by package)</td></tr> </tbody> </table>	Specification	Details	Build Volume	256 × 256 × 256 mm ³ (large print area)	Hot End	All-metal hot end (up to ~300 °C)	Nozzle	0.4 mm included (optional: 0.2/0.6/0.8 mm)	Max Hot End Temp	~ 300 °C	Build Plate	PEI textured plate (included); other Bambu plates supported	Max Build Plate Temp	~ 100 °C	Max Speed	Up to 500 mm/s rapid moves	Acceleration	Up to ~10 m/s ²	Supported Filaments	PLA, PETG, TPU, PVA ideal; ABS/ASA/PC/PA	Sensors	Filament run-out, filament odometry, tangle sensor, power-loss recovery	Camera	Low-fps camera (1080p) with time-lapse support	Calibration	Full-auto (Z-offset, bed levelling, nozzle pressure)	Additional Features	Active Flow Rate Compensation, noise-reducing motors, quick-swap nozzles	Dimensions & Weight	~ 385 × 410 × 430 mm; ~8–13 kg (varies by package)	15
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6.	3D Hand Held Blue Laser Scanner	Industry grade	<ol style="list-style-type: none"> 1. Blue laser technology and infrared light technology for non-contact 3D data acquisition, with multiple laser line modes 2. Accuracy The device shall provide a single scan accuracy of 0.04 mm. And volumetric accuracy of + 0.06 mm/ m 3. Resolution The system shall offer a point distance resolution adjustable between 0.05 mm to 10 mm, suitable for capturing both fine details and large surfaces. 4. Scanning Speed The device must capture up to 4,400,000 points per second, enabling rapid data collection even for intricate components. 5. Scanning Modes The device shall include multiple scan configurations for flexibility: <ul style="list-style-type: none"> • 19 + 19 cross laser lines for fast, global scanning. • 7 parallel laser lines for detailed scanning. 6. Working Distance Optimized stand-off distance of 170–550 mm and 160–1500 mm for larger parts with stable tracking. 7. Object Size Capability 	01																

		<p>Able to scan parts ranging from 30 mm up to several meters, without loss of accuracy or detail.</p> <p>8. Alignment Options The device shall support global marker alignment, feature alignment, and hybrid alignment, ensuring flexibility across diverse scanning tasks.</p> <p>9. Output Formats Must export industry-standard 3D formats (STL, OBJ, PLY, ASC, 3MF, etc.) for direct use in CAD/CAM, reverse engineering, and inspection workflows.</p> <p>10. Surface Compatibility The device shall capture objects with varied surface types including dark, shiny, and textured materials without requiring developer spray.</p> <p>11. 3D Scanning Software The supplied software must include:</p> <ul style="list-style-type: none"> • Data acquisition and registration. • Measurement and feature extraction (auto hole filling, cutting plane, and model measurement). • Alignment and basic post-processing tools. • Perpetual license (no mandatory subscription/AMC). <p>12. Portability The scanner shall weigh under 1 kg and be supplied with a compact protective case for easy field deployment.</p> <p>13. Connectivity</p> <ul style="list-style-type: none"> • Data transmission shall be through USB-C interface for high-speed transfer. • The device should also support Wi-Fi router connectivity. • The scanner should have a standalone mode, operating without the need to connect to a computer. <p>14. Display Unit The 3D scanner should have a touchscreen display of 6.4" 2K AMOLED (or better) to allow direct data registration without a computer.</p> <p>15. Operating Conditions The device shall be capable of operating between -10°C to +40°C, under normal humidity conditions without condensation.</p> <p>16. Certification The scanner shall conform to CE, FCC, RoHS, WEEE standards and be certified Class II eye-safe.</p>	
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			<p>17. Inbuilt Hardware Requirements The system should include built-in hardware capable of processing scan data with the following minimum specifications:</p> <ul style="list-style-type: none"> • 1 TB SSD ROM • 32 GB DDR5 RAM <p>18. Mounting Provision The device shall support tripod or fixture mounting in addition to handheld operation.</p> <p>19. Warranty & Support The supplier shall provide:</p> <ul style="list-style-type: none"> • OEM authorization letter. • One-year warranty. 																							
7.	PCB Milling Machine	Branded Company Product with at least three years product warranty	<table border="1"> <tr> <td>Bed Size</td><td>200 X 200 mm</td></tr> <tr> <td>Material Of Construction</td><td>Alloy Steel</td></tr> <tr> <td>Linear Motion</td><td>Precision Guideways with Ballscrews</td></tr> <tr> <td>PC Connectivity</td><td>USB</td></tr> <tr> <td>Accuracy</td><td>10 Microns</td></tr> <tr> <td>Minimum Drill</td><td>0.3 mm</td></tr> <tr> <td>Minimum Isolation</td><td>0.1 mm</td></tr> <tr> <td>Spindle</td><td>60000 RPM</td></tr> <tr> <td>Files Supported</td><td>Gerber Files</td></tr> <tr> <td>Compensation</td><td>Linear, Squareness, PCB Warpage</td></tr> <tr> <td>Power</td><td>230 V, 50 Hz</td></tr> </table>	Bed Size	200 X 200 mm	Material Of Construction	Alloy Steel	Linear Motion	Precision Guideways with Ballscrews	PC Connectivity	USB	Accuracy	10 Microns	Minimum Drill	0.3 mm	Minimum Isolation	0.1 mm	Spindle	60000 RPM	Files Supported	Gerber Files	Compensation	Linear, Squareness, PCB Warpage	Power	230 V, 50 Hz	01
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Spindle	60000 RPM																									
Files Supported	Gerber Files																									
Compensation	Linear, Squareness, PCB Warpage																									
Power	230 V, 50 Hz																									

<p>8.</p> <p>Eco Solvent Machine</p>	<p>Branded Company Product with at least three years product warranty</p>	Print head	On demand piezo head
		Print resolution	Y:600,900,1200 dpi x :600, 1200 dpi
		Head gap	2 levels by manual (1.5 mm, 2.0 mm)
		Ink Type	SS21, SS22, BS4
		Ink Capacity	SS22: 440 ml ink cartridge
		Ink circulation	Yes
		Max media width	63.8 Inch – 54 Inch
		Max Printable width	63.4 Inch – 53.5 Inch
		Media roll outer diameter	φ180 mm
		Media roll weight	25 kg
		Media roll inside diameter	2/3 inch
		Interface	Ethernet 1000 BASE-T (Recommended / USB 2.0 Hi speed)
		Power	AC (100-120 V/ 200-240 Volt) 50/60 Hz
		Power consumption	Max 1320 W x 2/4.5 W or less (sleep mode)
		Weight	Max 140 kg

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9.	Eco Solvent Branded Company Product with at least three years product warranty	<table border="1"> <tr> <td>Printer width</td><td>163 cm</td></tr> <tr> <td>Print head</td><td>Precision core MicroTFP</td></tr> <tr> <td>Nozzle configurations</td><td>400 Nozzles x 2 Rows x 4 Colours</td></tr> <tr> <td>Maximum resolutions</td><td>1200 x 1200 dpi</td></tr> <tr> <td>Minimum Ink droplet volume</td><td>4.3 pl</td></tr> <tr> <td>Ink Type</td><td>Ultra chrome Eco solvent</td></tr> <tr> <td>Ink Capacity</td><td>800 ml</td></tr> <tr> <td>Media Type</td><td>Roll, Adhesive Vinyl, Banner film</td></tr> <tr> <td>Media width</td><td>300-1625 mm</td></tr> <tr> <td>Media thickness</td><td>Less than 1 mm</td></tr> <tr> <td>Heaters</td><td>Pre and Platen Heater (40°C), After Heater (50°C)</td></tr> <tr> <td>Power Requirement</td><td>Input Voltage AC 100-120V/200-240 V;50/60 Hz</td></tr> <tr> <td>Power consumption</td><td>Operating approximately 650W, Power off standby</td></tr> <tr> <td>Temperature and humidity</td><td>15-35°C, 20-80% RH (non-condensing)</td></tr> <tr> <td>Weight</td><td>278 Kg</td></tr> </table>	Printer width	163 cm	Print head	Precision core MicroTFP	Nozzle configurations	400 Nozzles x 2 Rows x 4 Colours	Maximum resolutions	1200 x 1200 dpi	Minimum Ink droplet volume	4.3 pl	Ink Type	Ultra chrome Eco solvent	Ink Capacity	800 ml	Media Type	Roll, Adhesive Vinyl, Banner film	Media width	300-1625 mm	Media thickness	Less than 1 mm	Heaters	Pre and Platen Heater (40°C), After Heater (50°C)	Power Requirement	Input Voltage AC 100-120V/200-240 V;50/60 Hz	Power consumption	Operating approximately 650W, Power off standby	Temperature and humidity	15-35°C, 20-80% RH (non-condensing)	Weight	278 Kg	
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10.	<p>Hot press Heavy duty A3 size</p>	<p>Branded Company Product with at least three years product warranty</p>	<p>Platen Size: ~A3 area ($\approx 350 \times 420$ mm) Power: ~1500 W (typical) Voltage: 110 V / 220 V selectable (region dependent) Temperature Range: Up to ~221 °C (430 °F) Time Control: 0–999 s digital timer Pressure: Adjustable manual/pneumatic for even transfer Heat Distribution: Even surface ± 5 °C variation Weight: ~30–70 kg (varies by model) Machine Dimensions: ~588×363×473 mm (example) Controller: Digital LED temperature + time display Features: Auto-open on cycle end (some models) Usage: Sublimation, garments, fabrics, plates, etc.</p>	01
11.	<p>Vinyl Printer</p>	<p>Branded Company Product with at least three years product warranty</p>	<p>Dimensions: 1000 mm x 150 mm x 150 mm 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
12.	<p>Lathe Machine cum milling</p>	<p>Branded Company Product with at least three years product warranty</p>	<p>Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Work Piece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high-quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500</p>	1

			<p>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) Desktop: 1 No.</p>	
13.	Belt and Disc Sanding Machine	Branded Company Product with at least three years product warranty	<p>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</p>	1
14.	Scroll Saw	Branded Company Product with at least three years product warranty	<p>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)</p>	1
15.	Wood Turning Lathe	Branded Company Product with at least three years product warranty	<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 Material: Cast Iron Bed Height: 0.2 m Cable Length: 0.850 m</p>	1
16.	Bench Top Drill Machine	Branded Company Product with at least	<p>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,</p>	1

		Three to Five years Warranty	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	
17.	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
18.	Computerized Sewing Machine	Branded Company Product with at least three years product warranty	Motor: 120 W Max Sewing Speed: 860 SPM Power: 220 - 240 V Automation Grade: Automatic Max Stitch Length: 4mm Thread Type: Computerized Weight:7.6 kg Number of Stitches:120 Size/Dimension: 50.8 cm x 29.464 cm x 40.64 cm Maximum Stitch Width: 7 mm Number of Buttonhole Styles:7 LCD Screen Display: Yes Bed Type Free Arm/Flatbed convertible Bobbin Type Drop & Sew Bobbin System	1
19.	Filament Dehydrator	Branded Company Product with at least three years product warranty	Operating Temperature Range: Min 45°C– 70°C Drying Time Setting: 0–48 hours or higher Hot-Air Heating: upto 360° circulation Moving Speed: 300 mm/s or more Power Rating: 160 W Shipping Weight: 2.5 kg	1
20.	Reflow Oven	Branded Company Product with at	No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz	1

		least three years product warranty	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	
21.	Digital multimeter	Branded Company Product with at least three years product warranty	Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: $\pm 0.5\%$ 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 M Ω Resistance Accuracy: Estimated at $\pm 1.5\% + 3$ digits Capacitance Measurement: Up to 1000 μ F Capacitance Accuracy: $\pm 5\%$ or ± 5 digits Operating Temperature Range: From 0°C up to approximately 40°C Storage Temperature Range: Between -30°C and 60°C Overall Dimensions (H×W×L): Approximately 183×91×49.5 mm Unit Weight: Around 455 grams Safety Compliance: As per IEC 61010-1 & IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification	5
22.	Mixed Signal Oscilloscope (100 MHz)	Branded Company Product with at least three years product warranty	BW, 4 Channels * 1 GSa/s Sampling rate * 14 Mpts Record length * Newest generation of SPO (Super Phosphor Oscilloscope) technology * Waveform capture rate up to 100,000 wfm/s (normal mode) and 400,000 wfm/s (sequence mode) * Standard Serial decode & trigger functions (I2C, SPI, UART, RS232, CAN, LIN) * Smart Trigger functions: Window, Runt, Interval, DropOut, Pattern	1

		<ul style="list-style-type: none"> * Advanced math operations (FFT, +, -, *, /, d/dt, integrate, square root) * 1 Mpoints FFT * High Speed Hardware based P/F Function. * Automatic Measurement of 38 Parameters * Standard Functions in 4 Channel Model: Bode Plot, Search & Navigate & Web Brower based control * Other options in 4 channel model: MSO Function (16 digital channels), USB AWG module, USB WIFI adapter * 256 Level Intensity Grading Display * 7.0" TFT LCD (800 x 480) * Independent vertical scale & position control knobs for each channel * Support USB Host, USB Device (USB TMC), LAN (VXI-11), GPIB (Optional), Pass/Fail, Trigger Out. MSO function (software) + Logic Probe 16-channel, 500 MSa/s, No. of Channels - 16 Max. Sampling Rate - 1 GSa/s Memory Depth - 14 Mpts/CH Min Detectable Pulse Width - 4 ns Level Group - D0 to D7, D8 to D15 Level Range - - 3 V to 3 V Logic Type - TTL, CMOS, LVCMOS3.3, LVCMOS2.5, custom Universal Main Board. AV, HDMI, AV & VGA inputs. LVDS output to interface to connect panel. Covers all panel HD & FHD resolutions. Audio Out Terminal. Key board & Remote control working. 8W class D audio amplifier. Works on 12V regulated DC supply. Compact size. UART debug port Salient Features * Aesthetically designed injection molded electronic desk (Main unit) carrying useful experiment resources Variable Power supplies / Status / Pulsar / Function Generator, DPMs etc. while the central slot will carry replaceable experiment panel secured in an ABS molded plastic sturdy enclosure, & has colorful screw less 	
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			<p>overlay showing circuit & its connection tag numbers for easy connectivity.</p> <p>* Connection through Sturdy 4mm Banana Sockets & Patch Cords.</p> <ul style="list-style-type: none"> • Set of Users Guide provided with each Unit. <p>Specifications Of Main Unit</p> <ul style="list-style-type: none"> • Built In Power Supply: <p>DC Supply :5V / 1A. & \pm 12V, 1A. 0 to 15V DC (Variable), 100 mA (Isolated), 0 to 30V DC (Variable), 100 mA (Isolated)</p> <p>High Volt DC 15V to 110V, 100Ma, AC Supply: 12-0-12V AC,150 mA. Short circuit Protected.</p> <ul style="list-style-type: none"> • Built In Function Generator – <p>O/p Waveform: Sine, Triangle & TTL O/Ps</p> <p>Output Frequency: 1 Hz to 1MHz in 6 ranges, with amplitude & frequency control pots. O/P Voltage 20Vp-p max. (Sin/TRG),</p> <p>Modulation I/P:AM: - I/P voltage + 5V (100% modulation) O/P - For 0V (min), + 5V (max.) - 5V (Phase reversal of O/P)</p> <p>FM: I/P voltage \pm 400mV (+ 50% modulation)</p> <ul style="list-style-type: none"> • Clock Generator: 10 MHz TTL clock. • Data Switches (10 No.) & bi-colour LED status indicators 10X2 Nos, for High / Low indication. • Pulser switches (2 Nos.) with four debounced outputs - 2No. • BNC to 2 channel banana adapter - 2No. • Logic probe to detect High/Low level pulses upto 1MHz, with bi-colour LEDs to indicate status 	
23.	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: \leq 3.5 ns depending on probe and settings</p> <p>Display: 7" TFT color LCD with 800\times480 resolution</p>	1

		<p>Time Base Range: From 5 ns/div to 100 s/div, user-adjustable</p> <p>Vertical Resolution: 8-bit digital</p> <p>resolution</p> <p>Trigger Modes: Automatic, Normal, and Signal-dependent triggering</p> <p>Maximum Input Voltage: 300 V rms (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 $1 \text{ M}\Omega // 16 \text{ pF}$</p> <p>Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering, and AUTOSET configuration for display scaling (time base/gain)</p> <p>Protocol Decoding Support: Capable of analyzing I2C, SPI, UART, CAN, and LIN communication protocols</p> <p>Standard Accessories: Includes mains power cable, user manual (digital format), and one GTL-16E probe per input channel</p>	
24.	<p>Power supply</p> <p>Branded Company Product with at least three years product warranty</p>	<p>Output Configuration: 4-channel design with independent electrical isolation across all outputs</p> <p>Channel Output Ranges:</p> <ul style="list-style-type: none"> • CH1 & CH2: Adjustable output voltage from 0 to 32V with a current delivery capacity up to 3A • CH3: Variable range 0 to 5V supporting up to 1A • CH4: Output adjustable from 0 to 15V with a load current of up to 1A <p>Constant Voltage Operating Mode Line Regulation: $\leq 0.01\% + 3 \text{ mV}$ (approximate value within rated voltage range)</p> <p>Load Regulation: $\leq 0.01\% + 3 \text{ mV}$ (across rated load variation)</p> <p>Ripple & Noise: $\leq 1 \text{ mVrms}$ across full bandwidth Constant Current Operating</p>	1

		<p>Mode Line Regulation: $\leq 0.2\% + 3 \text{ mA}$</p> <p>Load Regulation: $\leq 0.2\% + 3 \text{ mA}$ Ripple</p> <p>Current: $\leq 3 \text{ mA rms}$ (typical) 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) 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>	
25.	<p>Function Generator</p> <p>Branded Company Product with at least three years product warranty</p>	<p>Output Function: The equipment shall provide output waveforms including sine, square, triangle, and TTL signals as required.</p> <p>Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz. For triangle waveform: approximately 0.1 Hz up to 1 MHz.</p> <p>Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz.</p> <p>Frequency Stability: The frequency stability shall be within $\pm 20 \text{ ppm}$ (parts per million). Frequency Accuracy: The frequency accuracy shall be maintained within $\pm 20 \text{ ppm}$.</p> <p>Frequency Aging: Frequency aging shall not exceed $\pm 5 \text{ ppm}$ per annum.</p> <p>Amplitude Range: Output amplitude shall</p>	1

			<p>be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load.</p> <p>Amplitude Accuracy: Amplitude accuracy shall be within $\pm 20\%$ at maximum amplitude setting.</p> <p>Output Impedance: Nominal output impedance shall be 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.</p> <p>Output Control: Output shall be controlled via an ON/OFF selector switch.</p> <p>Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 110 V $\pm 10\%$, with frequency 50/60 Hz.</p> <p>Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature ranges of 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$.</p> <p>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>	
26.	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.</p> <p>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,</p>	1

			open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μ F. Accuracy: \pm (2% rdg + 4 digits). Frequency: Input level varies by range; functions include Auto/Manual Range, Max, Min, dBm, Rel, Hold. Continuity Beep: Threshold <5 Ω . Display: Dual 7-segment LED, 0.4" and 0.5". Power Source: AC 100/120/230 V \pm 10%, 50/60 Hz. Dimensions & Weight: Approximately 251 \times 91 \times 291 mm; 2.6 kg.	
27.	Non-Contact Voltage Tester	Branded Company Product with at least three years product warranty	Function: Non-contact AC voltage detection tester. Voltage Detection Range: Approximately 90 V to 1000 V AC. Detection Method: Capacitive, with visual and audible indication. Sensitivity: Adjustable sensitivity for different voltage ranges. Response Time: Instantaneous detection within standard operating conditions. Indicators: Bright LED indicators and audible beep for voltage presence. Operating Environment: Suitable for use in ambient temperatures from 0 °C to 40 °C. Power Source: Powered by standard batteries (typically 2 \times AAA or equivalent). Safety Standards: Complies with IEC/EN 61010-1 CAT III 1000 V safety standards. Dimensions: Compact, handheld design suitable for field use (approx. 150 mm \times 30 mm \times 25 mm). Weight: Lightweight, approximately 150 g for ease of portability.	5
28.	LCR Meter	Branded Company Product with at least three years product warranty	Display: Approximately 2.8" TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both primary and secondary displays. Basic Accuracy: Within \pm 0.2% under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Up to 15 different measurement combinations	1

			<p>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.</p> <p>Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow).</p> <p>Auto LCR Mode: Automatic identification and measurement of component types within supported ranges.</p> <p>Data Hold: Feature available to hold measured data on display.</p> <p>Interface: USB virtual COM port provided for remote communication capabilities.</p> <p>Software: Data logging software available for data capture and analysis.</p>	
29.	Soldering Station	Branded Company Product with at least three years product warranty	<p>Power Rating: Approximately 60 W maximum output power.</p> <p>Temperature Range: Adjustable from approximately 200 °C up to 480 °C.</p> <p>Temperature Stability: Within ± 2 °C under normal operating conditions.</p> <p>Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance.</p> <p>Display: Digital or analog temperature display (depending on variant) for precise temperature control.</p> <p>Temperature Control: Adjustable via knob or digital interface with fine resolution.</p> <p>Power Supply: AC 220 V $\pm 10\%$, 50/60 Hz.</p> <p>Safety Features: Thermal cutoff and overload protection within required standards.</p> <p>Dimensions: Compact design with 100 mm \times 100 mm \times 90 mm (W \times H \times D) or above</p> <p>Weight: Approximately 1.5 kg for ease of portability and bench use.</p>	3
30.	Digital Microscope	Branded Company Product with at least three	<p>Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920\times1080, 640\times480 Pixel: 30W Focal length: 3-40mm manual adjustment Support Android 4.2 or above/windows/Mac system</p>	1

		years product warranty		
31.	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> <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.</p> <p>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 × 180 mm × 140 mm (W × H × D).</p> <p>Weight: Approximately 3.5 kg.</p> <p>Power Source: AC 220 V ±10%, 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>	1
32.	Hand Drill Machine	Branded Company Product with at least	<p>Rated Input Power: Approximately 500 W or above maximum power consumption.</p> <p>Bit Holder: Standard 1/2"-20 UNF thread type.</p> <p>No-Load Speed (1st Gear): Adjustable</p>	2

		three years product warranty	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.	
33.	Cordless drill	Branded Company Product with at least three years product warranty	Torque (soft/hard/max.): Min 21/50/- Nm No-load speed (1st gear / 2nd gear): Min 0 – 500 / 0 – 1,900 rpm Weight incl. battery: 1.3 kg or less Max. impact rate: 27,000 bpm Battery type: Lithium-Ion or equivalent Chuck capacity, min./max.: 1.5 / 13 mm Weight excl. battery: 0.99 kg Torque settings: 20+2 or better	2
34.	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.	1
35.	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	1

			<p>× 130 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Mitre: Approximately 90 mm × 91 mm maximum cross-section.</p> <p>Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-section. Tool Dimensions (W×L×H): Approximately 477 mm × 559 mm × 567 mm.</p> <p>No-Load Speed: Fixed at approximately 5,000 rpm.</p> <p>Weight: Approximately 11.1 kg.</p>	
36.	Hot air gun	Branded Company Product with at least three years product warranty	<p>Rated Input Power: Approximately 1,800 W maximum power consumption.</p> <p>Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg.</p> <p>Working Temperature Range: Adjustable within approximately 60 °C to 550 °C.</p> <p>Heat-Up Time: Approximately 1 second to reach target temperature.</p> <p>Airflow: Adjustable within approximately 350 to 550 liters per minute.</p> <p>Airflow Control: Three selectable airflow settings.</p>	2
37.	Table saw	Branded Company Product with at least three years product warranty	<p>Rated input power: Max 1800 W Incline setting: 45 ° L / 0 ° R Table size: Up to 555 x 555 mm Saw blade diameter: 254 mm Cutting height 90°: 80 mm Cutting height 45°: 55 mm</p> <p>Saw blade bore diameter: 30 mm Weight 24.4 kg or less</p> <p>Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm</p> <p>Cutting height 90°: 80 mm</p> <p>Cutting height 45°: 55 mm</p>	1
38.	Bench grinder	Branded Company Product with at least three years product warranty	<p>Grinding wheel diameter: min 150 mm</p> <p>Rated input power: 350 W or more</p> <p>Grinding wheel widths: 20 mm or more</p> <p>No-load speed: up to 3,000 rpm</p> <p>Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more</p> <p>Weight: 10 kg or less</p>	1

39.	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
40.	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
41.	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
42.	Blower	Branded Company Product with at least three years product warranty	Rated Input Power: Max 650 W power consumption. Weight: Approximately 1.7 kg. Voltage, Electrical: Nominal 230 V AC supply. Sound Pressure Level: Around 103 dB(A). Sound Power Level: Approximately 95 dB(A). Uncertainty (K): Within ±3 dB	1
43.	Cordless Screw Driver	Branded Company Product with at least three years product warranty	Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to	1

		years product warranty	1,500 rpm respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable setting.	
44.	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
45.	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
46.	Planer	Branded Company Product with at least three years product warranty	Rated Input Power: Not exceeding 710 W under nominal operating conditions. Planing Width: Approximately 82 mm effective width capacity. Planing Depth: Within the range of up to 2.6 mm maximum depth per pass. Weight: Circa 2.8 kg total unit mass. Adjustable Rebating Depth: Maximum adjustable depth of approximately 9 mm. No-Load Speed: Operating speed typically	1

			around 18,000 rpm.	
47.	Cordless Vacuum Cleaner with Starter kit	Branded Company Product with at least three years product warranty	<p>Battery Voltage: Rated at approximately 18.0 V nominal voltage.</p> <p>Weight Excluding Battery: Around 1.3 kg without battery attached.</p> <p>Container Volume: Approximately 0.7 liters' net capacity.</p> <p>Filter Surface Area: Roughly 55 cm² filtration surface.</p> <p>Maximum Airflow Rate (Turbine): Up to 10 liters per second.</p> <p>Maximum Vacuum Pressure (Turbine): Not exceeding 60 mbar under standard conditions.</p> <p>Operating Time (18 V Battery): Typically, 7 minutes per Ah of battery capacity.</p>	1
48.	Rotary Tool Kit	Branded Company Product with at least three years product warranty	<p>Rated Power Input: Approximately 175 W within nominal voltage range.</p> <p>Voltage: Operates within 220 to 240 V AC supply.</p> <p>Weight: Around 0.66 kg total mass.</p> <p>Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width.</p> <p>Depth: Roughly 4.3 cm depth dimension.</p> <p>No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm.</p> <p>Battery Technology: Not applicable (n.a.).</p> <p>Speed Setting: Fully variable speed control as required.</p> <p>Accessory Quick-Change System: Equipped with multi chuck for rapid accessory interchange.</p> <p>Vibration Level: Approximately 18 m/s² measured vibration</p>	2

49.	Heavy Duty Hydraulic Workshop Press Machine	Industry Grade	Hand Operated : Distance between Column L x B : 650 x 150 mm Distance Between Ram to Bed : 75 x 600 mm Hand Operated Travel of Ram : 150 mm Capacity : 20 Ton	01
50.	Rubber Grip Hacksaw	Industry grade	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	2
51.	Hacksaw Mini	Industry grade	Blade Length: Approximately 10 inches' nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length.	2
52.	Claw Hammer Steel Shaft	Industry grade	Weight: Approximately 8 oz (220 grams) nominal weight. Dimensions: Around 27.8 cm × 12.4 cm × 3.6 cm (L × W × H) overall size	2
53.	Ball Pein Hammer	Industry grade	Weight: Approximately 110 grams' nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2
54.	Rubber mallet	Industry grade	Weight: Approximately 450 grams' nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	2
55.	Ring spanner set 12Pcs	Industry grade	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1
56.	Open end spanner set 12Pcs	Industry grade	Weight: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
57.	Combination Spanner set 8Pcs	Industry grade	Weight: Approx649g nom.wt. Qty: 8pcs/set.	1
58.	Allen key set 10pcs	Industry grade	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2
59.	Allen key set 12pcs	Industry grade	BallKeySize:1/16",5/64",3/32",7/64",1/8", 9/ 64",>5/32",3/16",7/32",1/4",5/16",3/8" Qty:12pcs/set	2

60.	Combination plier	Industry grade	Weight: Approx422g nom.wt. Size: 8"/200mm nominal	2
61.	Long nose plier	Industry grade	Weight: Approx399g nom.wt. Size:180mm/6" nominal	2
62.	Circlip straight 5"	Industry grade	Weight: Approx399g nom.wt. Size:130mm/5" nominal	2
63.	Circlip bent	Industry grade	"Weight: Approx399g nom.wt. Size:130mm/5"" nominal"	2
64.	Diagonal Cutter	Industry grade	"Weight: Approx239g nom.wt. Size:180mm nominal"	2
65.	Wire Stripper	Industry grade	Weight: Approx281g nom.wt. Size:130mm nominal	2
66.	Adjustable spanner	Industry grade	Size: Upto 150 mm	2
67.	Pipe wrench	Industry grade	Size: Max 300 mm	2
68.	C – clamp	Industry grade	Size: Upto 75 mm	4
69.	C-clamp	Industry grade	Size: Upto 150 mm	4
70.	Snap- off Knife	Industry grade	Size:18 mmm	2
71.	16pcs screw driver set	Industry grade	Pieces Per Set: 16 pcs	1
72.	6pcs precision screw driver set	Industry grade	Pieces Per Set: 16 pcs	2
73.	Max steel snip cutter	Industry grade	Length: 250 mm	2
74.	PVC Pipe cutter	Industry grade	Length: 42 mm	2
75.	Hot Glue Gun	Industry grade	Power: 40 W	4
76.	Small file set	Industry grade	Length: 160 mm	2
77.	Big file set	Industry grade	Length: 200 mm	2

78.	Chisel set	Industry grade	Weight: 340 gm	2
79.	Punch set	Industry grade	Weight: 390 gm	2
80.	Bench wise	Industry grade	Base Type: Fixed Size:2-3½" nominal JawWidth:60mm	2
81.	Router Bit Starter Kit	Industry grade	Pieces Per Set: 15 pcs	1
82.	Drill bit set	Industry grade	WAF(mm):1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7, 7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13 Wt:~1.3Kg nom.wt Sz(mm):205×115×55 overall	2
83.	Baby wise	Industry grade	Vice Type: Bench Size:2" nominal JawWidth:50mm	2
84.	Ratchet Set	Industry grade	Vice Type: Bench Sz:2" nominal; Jaw:50mm	2
85.	Pegboard	Industry grade		5
86.	Digital Vernier Caliper	Industry grade	Product Type: Digital Calliper Meas.Range:0–150mm / 0–6" Resolution:0.01mm	2
87.	Micrometer	Industry grade	Resolution:0.001mm/0.00005" Meas.Range:0–25mm/0–1"	1
88.	Steel Rule 300mm	Industry grade	Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel	5
89.	Steel Rule 600mm	Industry grade	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5
90.	Engineering Square	Industry grade	Size:150×80mm nominal Material: Carbon Steel	2
91.	Meter Tape 30m	Industry grade	Length: 30 m	1
92.	Measuring Tape 3m	Industry grade	Length: 3 m	3
93.	Measuring Tape 5m	Industry grade	Length: 5 m	3
94.	Spirit Level	Industry grade	Vials: 3 Accuracy:0.5mm/m Length:300mm Product Type: Level	3

95.	Goggle	Industry grade	Goggle – Industrial Standard Make	5
96.	Apron	Industry grade	Apron - Standard Make	5
97.	Ear Muff	Industry grade	Earmuff – Industrial Standard Make	5
98.	Mask	Industry grade	Mask – Industrial Standard Make	50
99.	Fire Extinguisher	Industry grade	Fire Extinguisher– Industrial Standard Make	6
100.	First Aid Kit	Industry grade	First Aid Kit – Industrial Standard Make	2
101.	Gloves Pair	Industry grade	Gloves – Industrial Standard Make	10
102.	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
103.	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
104.	Smart Board	Branded Company Product with at least three years product warranty	Display Size: Approx 75Inch (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	1

			Surface Protection: 4mm Toughened Glass or Equivalent Infrared Touch Points: 20 Approx Voltage: DC+5V±5% Range OPS: Optional	
105.	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 (Firmware Update/Copy OSD) Approx. Analog Input: 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
106.	Printer	Branded Company Product with at least three years product warranty	Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm): 409×398.5×267 Approx Weight: 9.7Kg Nominal Print Speed: Upto30ppm(A4Size) Approx Warranty: 3 Year On-Site Print Resolution:600×600 dpi, HQ1200(2400× 600dpi) Quality Approx 2Sided-Duplex- Paper Type: Plain,Thin,Recycled Approx 2Sided-Duplex-Paper Size: A4 PaperHandling: Tray#1- PaperType:Plain,Thin,Recycled Tray#1- MaxCapacity: Upto250Sheets(80g/m ²) Approx Paper Output: Upto100Sheets(80g/m ²)FaceDownTray;OneSheetFaceUpTray Approx Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99Pages Approx Enlarge/Reduce:25%- 400%(In1% Steps) Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType:Plain,Thin,Recycled 2Sided-Duplex-Copy Paper Size: A4 Scan- Resolution Interpolated:	1

			Upto19200×19200dp iApprox Scan- Resolution Glass: Upto600×2400dpiApprox Connectivity: Hi-SpeedUSB2.0 DisplayType:16Chars×2Lines MemoryCapacity:32MBApprox PowerSource:220-240VAC50/60Hz Power Consumption-Ready: Approx60W Power Consumption-Sleep: Approx6.6W Power Consumption-Off: Approx0.08W NoiseLevel:50dB(A)Approx.	
107.	Desktop	Branded Company Product with at least three years product warranty	CPU: INTEL CORE I7-12THGEN or Higher RAM: 16GB Hard Disk: - 512GB SSD & 1 TB SATA HDD or more Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR	5
108.	3D printer Filament	Industry grade	Weight Kg: 1 Approx. Melt Flow Index: 2 (190°C/2.16kg) Nominal FilamentLength:330mApprox Dim Accuracy: +/-0.1mmApprox Roundness Accuracy: +/-0.5mmApprox Spool Inner Dia:55mm Nominal Spool Outer Dia:200mm Approx Spool Weight:300g Nominal Spool Width:65mm Approx	10
109.	Acrylic Sheet 3mm, 4ft x 4ft	Industry grade		20
110.	Acrylic Sheet 4mm, 4ft x 4ft	Industry grade		20
111.	Acrylic Sheet 5mm, 4ft x 4ft	Industry grade		20
112.	Foam Sheet 8mm, 4ft x 4ft	Industry grade		2
113.	Foam Sheet 10mm, 4ft x 4ft	Industry grade		1
114.	Foam Sheet 12mm, 4ft x 4ft	Industry grade		1

115.	Foam Sheet 15mm, 4ft x 4ft	Industry grade		1
116.	Ply Board 5mm, 2ft x 4ft	Industry grade		12
117.	Nylon Rod 10mm, 1m	Industry grade		5
118.	Nuts (3,4,5mm, 6,8,10, 12mm) Pack of 100	Industry grade		1
119.	Bolts (3,4,5mm, 6,8,10, 12mm) dia 1" Inch Pack of 100	Industry grade		1
120.	Screws (3,4,5mm) Pack of 100	Industry grade		1
121.	Washers (3,4,5mm, 6,8,10, 12mm) Pack of 100	Industry grade		1
122.	Studs (6mm,8mm) 1 Meter	Industry grade		2
123.	Nails (1",2",3",1.5 ",5") Pack of 100	Industry grade		1
124.	Fevicol 2Kg	Industry grade		1
125.	2 Way Tape	Industry grade		10
126.	PVC Pipe .75",10ft	Industry grade		10

127.	PVC Pipe 1",10ft	Industry grade		10
128.	PVC Pipe 1.5",10ft	Industry grade		10
129.	PVC Pipe 2.0",10ft	Industry grade		10
130.	Aluminium channels (L, C, Box, strip length 12ft)	Industry grade		2
131.	PCB Drill Bit 0.4mm	Industry grade		10
132.	PCB Drill Bit 0.8mm	Industry grade		10
133.	PCB Drill Bit 1mm	Industry grade		10
134.	Drill Bit 4mm	Industry grade		10
135.	Drill Bit 5mm	Industry grade		10
136.	Drill Bit 6mm	Industry grade		10
137.	Arduino UNO R3	Industry grade		5
138.	Arduino NANO	Industry grade		5
139.	Arduino Mega	Industry grade		3
140.	Raspberry Pi Model 4B, 4GB	Industry grade		3
141.	ESP8266 NodeMCU	Industry grade		2
142.	ESP32 Development Board	Industry grade		2
143.	Beaglebone blu	Industry grade		1

144.	Beaglebone Black	Industry grade		1
145.	Voltage Regulator Module	Industry grade		2
146.	Mini Micro submersible Water Pump	Industry grade		2
147.	Piezoelectric Plate	Industry grade		2
148.	8*8 LED Matrix Module	Industry grade		2
149.	Bluetooth	Industry grade		2
150.	7 Segment LED Display	Industry grade		2
151.	GSM/GPRS/ GPS Module	Industry grade		2
152.	Laser Module	Industry grade		2
153.	LDR Module	Industry grade		2
154.	4×4 Matrix Keypad	Industry grade		2
155.	Joy Stick Module	Industry grade		2
156.	Active Buzzer (BIG)	Industry grade		2
157.	Active Buzzer (SMALL)	Industry grade		2
158.	Motor Driver	Industry grade		2
159.	Sound Playback Module	Industry grade		2
160.	BO Motors	Industry grade		10

161.	Vibrating Motor	Industry grade		10
162.	Capacitive Touch Switch	Industry grade		2
163.	IR Sensors (Obstacle Sensors)	Industry grade		2
164.	Triple Axis Magnetometer	Industry grade		2
165.	Humidity Sensor	Industry grade		2
166.	MQ-2	Industry grade		2
167.	MQ-3	Industry grade		2
168.	MQ-4	Industry grade		2
169.	MQ-5	Industry grade		2
170.	MQ-7	Industry grade		2
171.	Ultrasonic Sensor Module	Industry grade		2
172.	Triple Axis accelerometer	Industry grade		2
173.	PIR Motion Detector Module	Industry grade		2
174.	Pulse Rate Heart Sensor	Industry grade		2
175.	Relay Module	Industry grade		2
176.	Soil Moisture Sensor	Industry grade		2
177.	Touch Sensor	Industry grade		2

178.	Rain Drop Sensor	Industry grade		2
179.	Flex Sensor	Industry grade		2
180.	Temperature Sensor	Industry grade		2
181.	Force Pressure Sensor	Industry grade		2
182.	Colour Recognition Sensor	Industry grade		2
183.	Water Flow Sensor	Industry grade		2
184.	Sound Sensor	Industry grade		2
185.	IR Sensor Array for Line Following	Industry grade		2
186.	RFID Reader-Tags	Industry grade		2
187.	RF Modules Tx& Rx 315 MHz ASK	Industry grade		2
188.	Stepper motor with Driver Board	Industry grade		2
189.	Servo Motor 360 rotation	Industry grade		10
190.	Servo Motor 180 rotation	Industry grade		10
191.	Metal Gear Servo Motor (180° Rotation)	Industry grade		10
192.	Solder Wire 100grm	Industry grade		10
193.	Solder Flux	Industry grade		10

194.	830 Points Solderless Breadboard	Industry grade		5
195.	400 Points Solderless Breadboard	Industry grade		5
196.	Copper Clad Board single side	Industry grade		10
197.	Copper clad board double side	Industry grade		10
198.	Male to Male Breadboard Jumper	Industry grade		10
199.	Female to Female Breadboard Jumper	Industry grade		10
200.	Male to Female Breadboard Jumper	Industry grade		10

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