|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *Annexure-1*  **Declaration of Non-Blacklisting**  *(To be submitted on the Rs 500/-stamp paper and signed by the authorized signatory)*  I/We, M/s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, having our registered office at \_\_\_\_\_\_\_\_\_\_\_\_, do hereby declare that:  1. **We have not been blacklisted or debarred** by any Government Department, Public Sector Undertaking, Autonomous Body, or any other Government Agency in India or abroad.  2. We are **not involved in any litigation** that may impact or compromise the timely delivery, quality, or execution of services/goods as required under this tender.  3. We understand that **any false declaration** in this regard shall result in our disqualification and may lead to further legal action by the procuring entity.  4. All the information and documents submitted by us in the bid are **true and correct to the best of our knowledge and belief.**  **Authorized Signatory:**  Name:  Designation:  Company Seal:  Date:  *Annexure-2*  **Declaration on Non-Chinese and/or non-Pakistan Origin of Equipment / Instruments / Machinery**  *(To be submitted on the bidder’s letterhead and signed by the authorized signatory)*  I/We, M/s \_\_\_\_\_\_\_\_\_\_\_\_, having our registered office at \_\_\_\_\_\_\_, do hereby declare that:  1. All equipment, machinery, instruments, or components proposed to be supplied under this tender are not manufactured in the People's Republic of China and/or Pakistan, nor are they of Chinese/Pakistan origin or assembled using parts sourced from Chinese/Pakistan manufacturers.  2. We fully comply with the Government of India’s guidelines, orders, and circulars regarding the procurement of goods from countries sharing a land border with India, particularly those related to restrictions on Chinese origin equipment as per: o 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, Sri Vasavi Engineering College and Management, shall be at liberty to terminate the contract and forfeit our security deposit/performance guarantee without notice.  **Authorized Signatory:**  Name:  Designation:  Company Seal:  Date:  *Annexure-3*    **BID Security Declaration**  I/We understand that, as per tender conditions, bids must be supported by a Bid Security Declaration.  I/We accept that I/We may be disqualified from bidding for any contract with [Institution Name] for a period of one year if I am / we are in breach of any obligation under the bid conditions, including:  (a) Withdrawal/modification of bid during the period of bid validity.  (b) Failing to sign the contract after award of bid.  **Authorized Signatory:**  Name:  Designation:  Company Seal:  Date:  *Annexure-4A*  **List of** **Mechanical Equipment with Specifications** | | | | | | |
| **S. No** | | **Equipment** | **Make/Model** | **Specifications** | **Qty** | **Cost per Unit (Rs.)** | **Total Cost (Rs.)** |
|  | | Single Nozzle 3D printer |  | Printing Technology: Fused Filament Fabrication (FFF) or Fused Deposition Modeling (FDM). Printable Area: The minimum printable area should be at least 310 x 310 x 310 mm or above Printer Design: Core XY or Cartesian. Temperature Range: Hot end: Up to 300°C or above Heat bed: Up to 120°C. or above. Nozzle: Compatible with All polymers, 0.4, 0.6 and 0.8mm Steel Sheet: Provided with satin or smooth PEI surface. Filament Diameter: 1.75mm (supports PLA, PETG, ASA, ABS, etc.). Extruder: Gearbox with 1/10 ratio, Speed : 550 MM/Sec or above Stepper Drivers for smooth motion. or equivalent Stepper Motors: Choose between 1.8° or precise 0.9° X, Y stepper motors. LCD Screen: 3.5″ graphic 65k color screen or larger. Connectivity: USB drive, LAN, or internet. Supported Materials: PLA, PETG, ASA, ABS, PP, PC, flexible filaments, and more. Wi-Fi Module: Built-in (network connectivity not required for setup or operation). Compatibility: Windows, macOS, Linux. Printer Dimensions: The maximum physical dimensions of the system 700 X 700 X 700 or above. Fully enclosed Machine. | 1 |  |  |
|  | | PCB Milling Machine |  | Cuttable Materials: Modeling Wax, Chemical Wood, Foam, Acrylic, Poly Acetate, ABS, PCB,Copper glad, etc Table Size: 225 (X) × 150 (Y) mm or more Drive System: Stepping Motor (X, Y, Z Axis) Operating Speed: 800 mm/min  Software Resolution: 0.01 mm/step Position accuracy : 0.01 to 0.02 mm Max Travel Speed (mm/sec)-58 (2.28 “) Drilling (mm)-0.2 -3.175 (8-125 mil) Maximum Drilling Cycles/ Min-50 Spindle Motor: DC Motor Type 380 or More Spindle Speed: Adjustable 20,000 and above rpm or more Tool Chuck Type: Collet Interface: USB or cable Control Commands: RML-1, NC code Power Supply: DC 24V, 2.5A (via AC 100– 240V, 50/60Hz adapter) Power Consumption: Approx. 50 W or more | 1 |  |  |
|  | | CO2 Laser Cutting Machine |  | Working Area: Min 600 x 900 mm or above Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 80/100W Wave Length: Upto 10.6 Micrometer Cutting Speed: 30000 mm/min or more Engraving Speed: 64000 mm/min or more XY Axis: LM Guide Rail or equivalent Cooling: Air/ Water Cooling Supply Voltage: 230V/415 V Accessories: CO2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 Nos | 1 |  |  |
|  | | Vinyl Printer |  | Dimensions: 50 cm x 15 cm x 15 cm or above Weight: 15.4 lbs or less Max cut size using machine mat: 11.5 inch x 23.5 inch or more Cut speed: up to 14.1 ips | 1 |  |  |
|  | | 3D Scanner |  | Technology: Stereo camera structured light with focusable cameras or equivalent CPU: Quad-core 64-bit SoC, 1.5GHz with integrated GPU RAM: 4 GB Projector: DLP MEMS mirror or equivalent Camera Sensor: Sony 13 MP or better Scan Speed: 4 seconds or more Working Distance：Effective Working Distance: 160mm-1400mm Scan Speed：980,000points/s, up to 14FPS Align Modes：Feature Alignment, Hybrid Alignment, Texture Alignment, Global Markers Safety：Eye-safe Texture Scan：Yes Interface：USB2.0 or above Outdoor Scanning：Yes Output Formats：OBJ; STL; PLY; P3; 3MF Scanning Environment: Indoor and outdoor (shaded) Texture / Color Scanning: Yes Minimum Capturable Feature Size: 0.2 mm or less Scanner Weight: 500 grams or less Scanner Dimensions: upto 240 × 60 × 60 mm Compatible OS: Any OS supporting a modern web browser |  |  |  |
|  | | Lathe Machine cum milling |  | Centre Width: Up to 400 mm or better Height of Centers: Up to 88 mm Maximum Workpiece Diameter: Up to 100 mm Machine Base: Cross-ribbed surface, high- quality cast iron with ground prismatic guide, capable of fitting milling/drilling attachment Spindle: Supported with adjustable taper roller bearings Spindle Receiver: MK3 or compatible Spindle Drill Hole: Up to 22 mm or better Spindle Concentricity: Up to 5 microns or better Chuck: 3-jaw chuck as per DIN 6386, centrically clamped, 100 mm diameter or better Run Out (without Chuck): Up to 10 microns Sleeve Receiver: MK2, retractable sleeve with scale Spindle Speed Range: Between 50 to 2500 rpm Speed Stages: 6-8 Motor Rating: 550W or better, induction motor, single phase 230V Traverse Cross: Up to 70 mm or better Traverse Longitudinal: Up to 300 mm or better Weight (Complete): Up to 55 kg or more Additional Accessories: Splash guard and chip collecting tray: 1 No. Cutter set with tungsten inserts: 2 Nos. Milling Attachment: 1nos Tungsten disposable tips ten-piece set: 1 No. Sample workpieces (Nylon Rod, Aluminium Rod) Desktop: 1 No. | 1 |  |  |
|  | | CNC Router |  | Working Area: Min 1300 x 2500 mm Z Axis Working Area: 200 or above Resolution: ±0.03/300mm or more CNC Spindle: 3KW or more Lathe Structure : Welding Steel Structure or equivalent XYZ Structure: Rack Pinion , Ball Screw Linear Rails Max Spindle Speed : Min 18000RPM Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ±0.03 Working Mode: Stepper Motor/Servo Motor Dust Collector : To be included by Vendor Voltage: AC 220V/415V, 50/60 Hz, 3 Phase | 1 |  |  |
|  | | Belt and Disc Sanding Machine |  | Motor: 230V 50Hz Power: 380W S2 30min No-load Speed: 1450rpm or more Belt Size: 100x914mm or less Disc Size: 150mm or better Table Titing Range: 0°-45° Belt Titing Range: 0°-90° Table Size: upto 190x125mm | 1 |  |  |
|  | | Scroll Saw |  | Power input: 50 Watt Thickness of Cut: 50 mm (2 inch) Throat: 406 mm (16 inch) Length of Stroke: 18 mm (11/16 inch) Strokes Per Minute: 400-1,600 SPM Overall Length: 600 mm (23-5/8 inch) | 1 |  |  |
|  | | Wood Turning Lathe |  | 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 | 1 |  |  |
|  | | Bench Top Drill Machine |  | Continuous rating input: Max. 250 W Capacity: Steel: Min 13 mm (1/2″) Wood: Min 24 mm (15/16”) No Load Speed (RPM): 570, 890, 1,300, 1,900, 2,670(50 Hz), 690, 1,070, 1,560, 2,280, 3,200(60 Hz) Net weight: Max. 20 kg (44.1 lbs.) Power supply cord: 1.75 m (5.7 ft) Additional Accessories: Bench Vise: 1 No., Drill Bit Set 10 Pcs: 1 No | 1 |  |  |
|  | | Portable Welding Machine |  | 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 |  |  |
|  | | Computerized Sewing Machine |  | 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 |  |  |
|  | | Filament Dehydrator |  | 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 |  |  |
|  | | Reflow Oven |  | No. of Waves: 7 or higher Heating Type: Infrared IC Heater Max. PCB Width: 300×320 mm or more Power Supply: AC 220V / 50Hz Peak Power: 1500W Cycle Time: 1–8 min or less Temperature Range: 0°C–280°C Overall Dimensions: min 350×450 mm Machine Weight: upto 25 kg | 1 |  |  |
|  | | Smoke Meter |  |  | 1 |  |  |
|  | | 5-Gas Analyser |  |  | 1 |  |  |
|  | | Normal Oven |  | 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 |  |  |
|  | | Refrigerator |  | 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 |  |  |

*Annexure-4B*

**List of** **Electronics Equipment with Specifications**

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| --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Equipment** | **Make/Model** | **Specifications** | **Qty** | **Cost per Unit (Rs.)** | **Total Cost (Rs.)** |
|  | Digital multimeter |  | Display Count: Up to 4000 DC Voltage Range: Up to 1000 V AC Voltage Range: Up to 1000 V DC Voltage Accuracy: ±0.5% or ±3 digits, whichever is higher AC Voltage Accuracy: Within ±1% + 3 digits DC Current Measurement: Up to 10 A AC Current Measurement: Maximum 10 A DC Current Accuracy: ±1.5% + 3 digits (approximate) AC Current Accuracy: ±1.5% + 3 digits (typical) Resistance Measurement: Up to 40 MΩ Resistance Accuracy: Estimated at ±1.5% + 3 digits Capacitance Measurement: Up to 1000 μF Capacitance Accuracy: ±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 |  |  |
|  | MSO 100 MHz |  | Bandwidth: Up to 100 MHz Analog Channels: 4 or more Real-Time Sampling Rate: Maximum 1 GSa/s per channel Memory Depth: 10 Mpts per channel Waveform Update Rate: Approximately 120,000 wfms/s Vertical Resolution: 8 bits Vertical Scale: Ranging from 1 mV/div to 10 V/div Horizontal Scale: Spanning 1 ns/div to 100 s/div Spectrum Analyzer Frequency Range: DC to 500 MHz FFT Points: Up to 1M points for enhanced frequency domain resolution Waveform Math Functions: Includes addition, subtraction, multiplication, division, minimum, maximum, root, square, absolute, inverse, derivative, integral, and low-pass filter Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate, Timeout, Event-Delay, Time-Delay, and Bus Arbitrary Waveform Generator (AWG): Dual- channel, 25 MHz, supporting various waveforms such as sine, square, pulse, ramp, DC, noise, sinc, Gaussian, Lorentz, exponential rise/fall, haversine, and cardiac AWG Sample Rate: 200 MSa/s AWG Vertical Resolution: 14 bits Display: 8-inch WVGA TFT LCD (800 × 480 pixels) Data Logging Capability: Up to 1000 hours Segmented Memory: Supports up to 29,000 segments for efficient waveform storage and retrieval Connectivity: USB 2.0 (host and device), Ethernet (RJ45), and Go-NoGo BNC Dimensions (W × H × D): 380× 200× 125 mm or above Weight: 2 Kgs or above Safety Compliance: Conforms to IEC 61010-1 and IEC 61010-2-030 standards, suitable for CAT III 600V and CAT II 1000V environments with Pollution Degree 2 classification | 1 |  |  |
|  | Digital oscilloscope |  | Number of Channels: Up to 2 independent analog inputs Memory Record Length: Up to 10 Mpts for extended waveform capture Bandwidth Limiting: Selectable 20 MHz bandwidth filter Sampling Rate: Maximum of 1 GSa/s real-time equivalent per channel Rise Time: ≤ 3.5 ns depending on probe and settings Display: 7" TFT color LCD with 800×480 resolution Time Base Range: From 5 ns/div to 100 s/div, user-adjustable Vertical Resolution: 8-bit digital resolution Trigger Modes: Automatic, Normal, and Signal-dependent triggering Maximum Input Voltage: 300 Vrms (within safety limits) Input Sensitivity: Within the range of 1 mV/div to 10 V/div Input Coupling Options: Selectable among AC, DC, and Ground Trigger Coupling Modes: Configurable as AC, DC, High-pass, or Low-pass Physical Dimensions: Approximately 350 × 200 × 120 mm or above Unit Weight: 2.5 kg or above Input Impedance: Nominal 1 MΩ // 16 pF Measurement Capabilities: Equipped for automatic parameter extraction, background noise filtering, and AUTOSET configuration for display scaling (time base/gain) Protocol Decoding Support: Capable of analyzing I2C, SPI, UART, CAN, and LIN communication protocols Standard Accessories: Includes mains power cable, user manual (digital format), and one GTL-16E probe per input channel | 4 |  |  |
|  | Power supply |  | Output Configuration: 4-channel design with independent electrical isolation across all outputs Channel Output Ranges: • 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 Constant Voltage Operating Mode Line Regulation: ≤ 0.01% + 3 mV (approximate value within rated voltage range) Load Regulation: ≤ 0.01% + 3 mV (across rated load variation) Ripple & Noise: ≤ 1 mVrms across full bandwidth Constant Current Operating Mode Line Regulation: ≤ 0.2% + 3 mA Load Regulation: ≤ 0.2% + 3 mA Ripple Current: ≦ 3 mArms (typical) Safety & Operational Features Output Control: Independent output ON/OFF switching functionality is required Voltage Resolution: Approximately 100 mV (\*1) Current Resolution: Approximately 10 mA (\*1) 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 ±10%, 50 Hz Mechanical Specifications Maximum Dimensions (W × H × D): Within 200 mm × 100 mm × 200 mm Maximum Weight: 10 kg or less | 4 |  |  |
|  | Function Generator |  | Output Function: The equipment shall provide output waveforms including sine, square, triangle, and TTL signals as required. Frequency Range: For sine and square waveforms: approximately 0.1 Hz up to 3 MHz.For triangle waveform: approximately 0.1 Hz up to 1 MHz. Frequency Resolution: Frequency resolution shall be maintained within a maximum of 0.1 Hz. Frequency Stability: The frequency stability shall be within ±20 ppm (parts per million). Frequency Accuracy: The frequency accuracy shall be maintained within ±20 ppm. Frequency Aging: Frequency aging shall not exceed ±5 ppm per annum. Amplitude Range: Output amplitude shall be up to 10 V peak-to-peak (Vp-p) into a 50 Ω load. Amplitude Accuracy: Amplitude accuracy shall be within ±20% at maximum amplitude setting. Output Impedance: Nominal output impedance shall be 50 Ω with a tolerance of ±10%. Attenuator: A single-step attenuator of -40 dB ±1 dB shall be provided. Display: A 6-digit LED display shall be incorporated for parameter indication. Output Control: Output shall be controlled via an ON/OFF selector switch. Power Source: The device shall operate on an AC supply of 240 V, 220 V, or 110 V ±10%, with frequency 50/60 Hz. Ambient Operating Temperature: Normal operation shall be ensured within the ambient temperature range of 0 °C to 40 °C. Dimensions: Maximum dimensions shall not exceed 255 mm (W) × 95 mm (H) × 295 mm (D). Weight: Maximum device weight shall be within 2.5 kg. | 4 |  |  |
|  | Bench Top Multimeter |  | DC Voltage: Range: 500 mV to 1000 V across 5 ranges. Accuracy: ±(0.03% rdg + 4 digits). Input impedance: 10 MΩ. AC Voltage (True RMS): Range: 500 mV to 1000 V across 5 ranges. Accuracy: ±(0.5%– 5% rdg + digits) depending on frequency and range. Input impedance: 10 MΩ. DC Current: Range: 500 μA to 20 A across 6 ranges. Accuracy: ±(0.02%–0.3% rdg + 2 digits) depending on range. AC Current (True RMS): Range: 500 μA to 20 A across 6 ranges. Accuracy: ±(0.5%–1% rdg + digits) depending on frequency. Resistance: Range: 500 Ω to 20 MΩ across 6 ranges. Accuracy: ±(0.1%–0.3% rdg + digits) depending on range. Diode Test: Max forward voltage 1.5 V, open voltage 2.8 V. Capacitance: Range: 5 nF to 50 μF. Accuracy: ±(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 ±10%, 50/60 Hz. Dimensions & Weight: Approximately 251 × 91 × 291 mm; 2.6 kg. | 4 |  |  |
|  | Non-Contact Voltage Tester |  | 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 × 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 × 30 mm × 25 mm). Weight: Lightweight, approximately 150 g for ease of portability. | 5 |  |  |
|  | LCR Meter |  | Display: Approximately 2.8” TFT touch LCD screen. Resolution: 25,000 or above counts resolution on both primary and secondary displays. Basic Accuracy: Within ±0.2% under standard conditions. Test Frequencies: Six or eight selectable frequencies depending on model variant. Measurement Combinations: Up to 15 different measurement combinations available. Test Level: Selectable AC test levels approximately 0.3 V, 0.7 V, and 1 V rms; DC test level selectable at ±1 V. Measurement Speed: Selectable measurement speeds of approximately 10 measurements per second (fast) and 2.5 measurements per second (slow). Auto LCR Mode: Automatic identification and measurement of component types within supported ranges. Data Hold: Feature available to hold measured data on display. Interface: USB virtual COM port provided for remote communication capabilities. Software: Datalogging software available for data capture and analysis. | 1 |  |  |

*Annexure-4C*

**List of** **Computer Related Equipment with Specifications**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No** | **Equipment** | **Make/Model** | **Specifications** | **Qty** | **Cost per Unit (Rs.)** | **Total Cost (Rs.)** |
|  | Smart Board |  | 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 Surface Protection: 4mm Toughened Glass Or Equivalent Infrared Touch Points: 20Approx Voltage:DC+5V±5%Range OPS: Optional | 1 |  |  |
|  | Projector |  | Projection Tech: RGB liquid crystal shutter projection (3LCD) Up to Connectivity: USB Type B: 1port (FirmwareUpdate/Copy OSD) Approx AnalogInput:D-Sub15pin:1port Digital Input: HDMI:1port Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx FNumber:1.44 Nominal Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00–1.35(Digital Zoom Approx | 1 |  |  |
|  | Desktop |  | CPU: INTEL CORE I7-12THGEN or Higher RAM:8GB+512GB SSD Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR | 5 |  |  |
|  | Printer |  | Functions: Print, Scan, Copy Printer Type: Laser Nominal Dims(mm):409×398.5×267Approx Weight:9.7KgNominal PrintSpeed:Upto30ppm(A4Size)Approx Warranty:1YearOn-Site PrintResolution:600×600dpi,HQ1200(2400× 600dpi) Quality Approx 2Sided-Duplex- PaperType:Plain,Thin,RecycledApprox 2Sided-Duplex-PaperSize:A4 PaperHandling:Tray#1- PaperType:Plain,Thin,Recycled Tray#1- MaxCapacity:Upto250Sheets(80g/m²)Approx PaperOutput:Upto100Sheets(80g/m²)FaceDo wnTray;OneSheetFaceUpTrayApprox Copy- Colour /Mono: Yes/Yes Multiple Copies: Sorts/StacksUpto99PagesApprox Enlarge/Reduce:25%- 400%(In1%Steps)Approx CopyResolution:600×600dpi 2Sided-Duplex- CopyPaperType:Plain,Thin,Recycled 2Sided-Duplex-CopyPaperSize:A4 Scan- ResolutionInterpolated:Upto19200×19200dp iApprox Scan- ResolutionGlass:Upto600×2400dpiApprox Connectivity:Hi-SpeedUSB2.0, DisplayType:16Chars×2Lines MemoryCapacity:32MBApprox PowerSource:220-240VAC50/60Hz PowerConsumption-Ready:Approx60W PowerConsumption-Sleep:Approx6.6W PowerConsumption-Off:Approx0.08W NoiseLevel:50dB(A)Approx | 1 |  |  |

*Annexure-4D*

**List of** **Tools with Specifications**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No** | **Equipment** | **Specifications** | **Qty** | **Cost per Unit (Rs.)** | **Total Cost (Rs.)** |
|  | Soldering Station | Power Rating: Approximately 60 W maximum output power. Temperature Range: Adjustable from approximately 200 °C up to 480 °C. Temperature Stability: Within ±2 °C under normal operating conditions. Heating Element: Ceramic heating element for rapid heat-up and efficient temperature maintenance. Display: Digital or analog temperature display (depending on variant) for precise temperature control. Temperature Control: Adjustable via knob or digital interface with fine resolution. Power Supply: AC 220 V ±10%, 50/60 Hz. Safety Features: Thermal cutoff and overload protection within required standards. Dimensions: Compact design with 100 mm × 100 mm × 90 mm (W × H × D) or above Weight: Approximately 1.5 kg for ease of portability and bench use. | 3 |  |  |
|  | Digital Microscope | Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080, 640\*480 Pixel: 30W Focal length: 3-40mm manual adjustment Support Android 4.2 or above/widows/Mac system | 1 |  |  |
|  | Soldering Rework Station | 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 | 1 |  |  |
|  | Hand Drill Machine | 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. | 2 |  |  |
|  | Cordless drill | 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 |  |  |
|  | Jig Saw | 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 |  |  |
|  | Miter Saw | Rated Input Power: Approximately 1,750 W maximum power consumption. Saw Blade Diameter: Approximately 254 mm nominal diameter. Mitre Setting: Adjustable up to approximately 47° left and 52° right. Bevel Setting: Adjustable up to approximately 45° left and 0° right. Saw Blade Bore Diameter: Approximately 25.4 mm standard bore. Cutting Capacity at 0°: Approximately 90 mm × 130 mm maximum cross-section. Cutting Capacity at 45° Mitre: Approximately 90 mm × 91 mm maximum cross-section. Cutting Capacity at 45° Bevel: Approximately 60 mm × 130 mm maximum cross-section. Tool Dimensions (W×L×H): Approximately 477 mm × 559 mm × 567 mm. No-Load Speed: Fixed at approximately 5,000 rpm. Weight: Approximately 11.1 kg. | 1 |  |  |
|  | Hot air gun | Rated Input Power: Approximately 1,800 W maximum power consumption. Voltage, Electrical: Nominal 230 V AC supply. Weight: Approximately 0.75 kg. Working Temperature Range: Adjustable within approximately 60 °C to 550 °C. Heat-Up Time: Approximately 1 second to reach target temperature. Airflow: Adjustable within approximately 350 to 550 liters per minute. Airflow Control: Three selectable airflow settings. | 2 |  |  |
|  | Table saw | 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 Saw blade bore diameter: 30 mm Weight24.4 kg or less Max. cutting capacity on the right: 545 mm No-load speed: 4300 rpm Cutting height 90°: 80 mm Cutting height 45°: 55 mm | 1 |  |  |
|  | Bench grinder | Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20 mm or more No-load speed: upto 3,000 rpm Grinding wheel bore: 20 mm/2cm Grit 24, 60 or more Weight: 10 kg or less | 1 |  |  |
|  | 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 |  |  |
|  | 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. | 1 |  |  |
|  | Circular Saw | 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 |  |  |
|  | Blower | 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 |  |  |
|  | Cordless Screw Driver | Battery Capacity: Around 1.5 Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14 Nm / 30 Nm / Maximum not specified. No-Load Speed (1st Gear / 2nd Gear): Ranges from 0 up to 400 rpm and 0 up to 1,500 rpm respectively. Battery Type: Rechargeable Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm up to 10 mm. Weight (Excluding Battery): About 0.8 kg. Torque Settings: 20 plus 1 adjustable settings. | 1 |  |  |
|  | Vacuum Cleaner | 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 cm² 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 |  |  |
|  | Random orbit sander | 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 |  |  |
|  | Planer | 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 around 18,000 rpm. | 1 |  |  |
|  | Cordless Vacuum Cleaner with Starter kit | 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. | 1 |  |  |
|  | Rotary Tool Kit | Rated Power Input: Approximately 175 W within nominal voltage range. Voltage: Operates within 220 to 240 V AC supply. Weight: Around 0.66 kg total mass. Length: Approximately 24 cm overall length. Width: About 4.1 cm nominal width. Depth: Roughly 4.3 cm depth dimension. No-Load Speed: Variable speed ranging from 5,000 up to 35,000 rpm. Battery Technology: Not applicable (n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick Change System: Equipped with multi chuck for rapid accessory interchange. Vibration Level: Approximately 18 m/s² measured vibration | 2 |  |  |
|  | Rubber Grip Hacksaw | Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length. | 2 |  |  |
|  | Hacksaw Mini | Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as standard. Overall Length: Around 11 inches total length. | 2 |  |  |
|  | Claw Hammer Steel Shaft | 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 |  |  |
|  | Ball Pein Hammer | Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements. | 2 |  |  |
|  | Rubber mallet | Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size. | 2 |  |  |
|  | Ring spanner set 12Pcs | Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range. | 1 |  |  |
|  | Open end spanner set 12Pcs | Weight: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims. | 1 |  |  |
|  | Combination Spanner set 8Pcs | Weight: Approx649g nom.wt. Qty: 8pcs/set. | 1 |  |  |
|  | Allen key set 10pcs | Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set | 2 |  |  |
|  | Allen key set 12pcs | 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 |  |  |
|  | Combination plier | Weight: Approx422g nom.wt. Size: 8”/200mm nominal | 2 |  |  |
|  | Long nose plier | Weight: Approx399g nom.wt. Size:180mm/6" nominal | 2 |  |  |
|  | Circlip straight 5" | Weight: Approx399g nom.wt. Size:130mm/5" nominal | 2 |  |  |
|  | Circlip bent | "Weight: Approx399g nom.wt. Size:130mm/5"" nominal" | 2 |  |  |
|  | Diagonal Cutter | "Weight: Approx239g nom.wt. Size:180mm nominal" | 2 |  |  |
|  | Wire Stripper | Weight: Approx281g nom.wt. Size:130mm nominal | 2 |  |  |
|  | Adjustable spanner | Size: Upto 150 mm | 2 |  |  |
|  | Pipe wrench | Size: Max 300 mm | 2 |  |  |
|  | C – clamp | Size: Upto 75 mm | 4 |  |  |
|  | C-clamp | Size: Upto 150 mm | 4 |  |  |
|  | Snap- off Knife | Size:18 mmm | 2 |  |  |
|  | 16pcs screw driver set | Pieces Per Set: 16 pcs | 1 |  |  |
|  | 6pcs precision screw driver set | Pieces Per Set: 16 pcs | 2 |  |  |
|  | Max steel snip cutter | Length: 250 mm | 2 |  |  |
|  | PVC Pipe cutter | Length: 42 mm | 2 |  |  |
|  | Hot Glue Gun | Power: 40 W | 4 |  |  |
|  | Small file set | Length: 160 mm | 2 |  |  |
|  | Big file set | Length: 200 mm | 2 |  |  |
|  | Chisel set | Weight: 340 gm | 2 |  |  |
|  | Punch set | Weight: 390 gm | 2 |  |  |
|  | Bench wise | Base Type: Fixed Size:2–3½" nominal JawWidth:60mm | 2 |  |  |
|  | Router Bit Starter Kit | Pieces Per Set: 15 pcs | 1 |  |  |
|  | Drill bit set | 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 |  |  |
|  | Baby wise | Vice Type: Bench Size:2" nominal JawWidth:50mm | 2 |  |  |
|  | Ratchet Set | Vice Type: Bench Sz:2" nominal; Jaw:50mm | 2 |  |  |
|  | Pegboard |  | 5 |  |  |
|  | Digital Vernier Caliper | Product Type: Digital Calliper Meas.Range:0–150mm / 0–6" Resolution:0.01mm | 2 |  |  |
|  | Micrometer | Resolution:0.001mm/0.00005" Meas.Range:0–25mm/0–1" | 1 |  |  |
|  | Steel Rule 300mm | Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel | 5 |  |  |
|  | Steel Rule 600mm | Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel | 5 |  |  |
|  | Engineering Square | Size:150×80mm nominal Material: Carbon Steel | 2 |  |  |
|  | Meter Tape 30m | Length: 30 m | 1 |  |  |
|  | Measuring Tape 3M | Length: 3 m | 3 |  |  |
|  | Measuring Tape 5M | Length: 5 m | 3 |  |  |
|  | Spirit Level | Vials:3 Accuracy:0.5mm/m Length:300mm Product Type: Level | 3 |  |  |

*Annexure-4E*

**List of** **Consumables**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Goggle | Goggle – Industrial Standard Make | 15 |  |  |
|  | Apron | Apron - Standard Make | 5 |  |  |
|  | Ear Muff | Earmuff – Industrial Standard Make | 5 |  |  |
|  | Mask | Mask – Industrial Standard Make | 50 |  |  |
|  | Fire Extinguisher | Fire Extinguisher– Industrial Standard Make | 6 |  |  |
|  | First Aid Kit | First Aid Kit – Industrial Standard Make | 2 |  |  |
|  | Gloves Pair | Gloves – Industrial Standard Make | 10 |  |  |
|  | 3D printer Filament | Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal FilamentLength:330mApprox Dim Accuracy: +/-0.1mmApprox Roundness Accuracy: +/-0.5mmApprox SpoolInnerDia:55mmNominal SpoolOuterDia:200mmApprox SpoolWeight:300gNominal SpoolWidth:65mmApprox | 10 |  |  |
|  | Acrylic Sheet | 3mm, 4ft x 4ft | 20 |  |  |
|  | Acrylic Sheet | 4mm, 4ft x 4ft | 20 |  |  |
|  | Acrylic Sheet | 5mm, 4ft x 4ft | 20 |  |  |
|  | Foam Sheet | 8mm, 4ft x 4ft | 2 |  |  |
|  | Foam Sheet | 10mm, 4ft x 4ft | 1 |  |  |
|  | Foam Sheet | 12mm, 4ft x 4ft | 1 |  |  |
|  | Foam Sheet | 15mm, 4ft x 4ft | 1 |  |  |
|  | Ply Board | 5mm, 2ft x 4ft | 12 |  |  |
|  | Nylon Rod | 10mm, 1m | 5 |  |  |
|  | Nuts | (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of 100 | 1 |  |  |
|  | Bolts | (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) dia 1” Inch Pack of 100 | 1 |  |  |
|  | Screws | (3mm,4mm,5mm) Pack of 100 | 1 |  |  |
|  | Washers | (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of 100 | 1 |  |  |
|  | Studs | (6mm,8mm) 1 Meter | 2 |  |  |
|  | Nails | (1",2",3",1.5",5") Pack of 100 | 1 |  |  |
|  | Fevicol 2Kg |  | 1 |  |  |
|  | 2 Way Tape |  | 10 |  |  |
|  | PVC Pipe | .75",10ft | 10 |  |  |
|  | PVC Pipe | 1",10ft | 10 |  |  |
|  | PVC Pipe | 1.5",10ft | 10 |  |  |
|  | PVC Pipe | 2.0",10ft | 10 |  |  |
|  | Aluminium channels | (L, C, Box, strip length 12ft) | 2 |  |  |
|  | PCB Drill Bit | 0.4mm | 10 |  |  |
|  | PCB Drill Bit | 0.8mm | 10 |  |  |
|  | PCB Drill Bit | 1mm | 10 |  |  |
|  | Drill Bit | 4mm | 10 |  |  |
|  | Drill Bit | 5mm | 10 |  |  |
|  | Drill Bit | 6mm | 10 |  |  |
|  | Arduino UNO R3 |  | 5 |  |  |
|  | Arduino NANO |  | 5 |  |  |
|  | Arduino Mega |  | 3 |  |  |
|  | Raspberry Pi Model 4B, 4GB |  | 3 |  |  |
|  | ESP8266 NodeMCU |  | 2 |  |  |
|  | ESP32 Development Board |  | 12 |  |  |
|  | NVIDIA Jetson Orin Nano Deployment Kit 8GB |  | 2 |  |  |
|  | IMU (MPU6050) |  | 10 |  |  |
|  | Camera Module (Raspberry Pi compatible) |  | 5 |  |  |
|  | 830 Points Solderless Breadboard |  | 5 |  |  |
|  | 400 Points Solderless Breadboard |  | 5 |  |  |
|  | Copper Clad Board single side |  | 10 |  |  |
|  | Copper clad board double side |  | 10 |  |  |
|  | Male to Male Breadboard Jumper |  | 10 |  |  |
|  | Female to Female Breadboard Jumper |  | 10 |  |  |
|  | Male to Female Breadboard Jumper |  | 10 |  |  |
|  | Beaglebone blu |  | 1 |  |  |
|  | Beaglebone Black |  | 1 |  |  |
|  | Voltage Regulator Module |  | 2 |  |  |
|  | Mini Micro submersible Water Pump |  | 2 |  |  |
|  | Piezoelectric Plate |  | 2 |  |  |
|  | 8\*8 LED Matrix Module |  | 2 |  |  |
|  | Bluetooth |  | 2 |  |  |
|  | 7 Segment LED Display |  | 2 |  |  |
|  | GSM/GPRS/GPS Module |  | 2 |  |  |
|  | Laser Module |  | 2 |  |  |
|  | LDR Module |  | 2 |  |  |
|  | 4×4 Matrix Keypad |  | 2 |  |  |
|  | Joy Stick Module |  | 2 |  |  |
|  | Active Buzzer (BIG) |  | 2 |  |  |
|  | Active Buzzer (SMALL) |  | 2 |  |  |
|  | Motor Driver |  | 2 |  |  |
|  | Sound Playback Module |  | 2 |  |  |
|  | BO Motors |  | 10 |  |  |
|  | Vibrating Motor |  | 10 |  |  |
|  | Capacitive Touch Switch |  | 2 |  |  |
|  | IR Sensors (Obstacle Sensors) |  | 25 |  |  |
|  | Triple Axis Magnetometer |  | 2 |  |  |
|  | Humidity Sensor |  | 2 |  |  |
|  | MQ-2 |  | 2 |  |  |
|  | MQ-3 |  | 2 |  |  |
|  | MQ-4 |  | 2 |  |  |
|  | MQ-5 |  | 2 |  |  |
|  | MQ-7 |  | 2 |  |  |
|  | Ultrasonic Sensor Module |  | 2 |  |  |
|  | Triple Axis accelerometer |  | 2 |  |  |
|  | PIR Motion Detector Module |  | 2 |  |  |
|  | Pulse Rate Heart Sensor |  | 2 |  |  |
|  | Relay Module |  | 2 |  |  |
|  | Soil Moisture Sensor |  | 2 |  |  |
|  | Touch Sensor |  | 2 |  |  |
|  | Rain Drop Sensor |  | 2 |  |  |
|  | Flex Sensor |  | 2 |  |  |
|  | Temperature Sensor |  | 2 |  |  |
|  | Ultrasonic Sensors (HC-SR04) |  | 20 |  |  |
|  | Force Pressure Sensor |  | 2 |  |  |
|  | Colour Recognition Sensor |  | 2 |  |  |
|  | Water Flow Sensor |  | 2 |  |  |
|  | Sound Sensor |  | 2 |  |  |
|  | Line Following Sensor Arrays |  | 10 |  |  |
|  | IR Sensor Array for Line Following |  | 2 |  |  |
|  | Temperature & Humidity (DHT11/DHT22) |  | 10 |  |  |
|  | RFID Reader-Tags |  | 2 |  |  |
|  | RF Modules Tx& Rx 315 MHz ASK |  | 2 |  |  |
|  | Stepper motor with Driver Board |  | 2 |  |  |
|  | Servo Motor 360 rotation |  | 10 |  |  |
|  | Servo Motor 180 rotation |  | 10 |  |  |
|  | Metal Gear Servo Motor (180° Rotation) |  | 10 |  |  |
|  | Servo Motors (SG90) |  | 20 |  |  |
|  | DC Gear Motors with Wheels |  | 20 |  |  |
|  | Stepper Motors + Drives (A4988) |  | 10 |  |  |
|  | Motor Driver Modules (L298N) |  |  |  |  |
|  | 2W/D 4WD Chassis Kits |  | 10 |  |  |
|  | Solder Wire 100grm |  | 10 |  |  |
|  | Solder Flux |  | 10 |  |  |