TECHNICAL COMPLIANCE CUM SPECIFICATION SHEET

Sr. No	Type	Equipment	Preferred brands if any	AICTE Specifications	Qty	Comply/Not Comply	Equipment Picture
1	MANDATORY EQUIPMENT	Single Nozzle 3D printer	Pratham	Printing Technology: Fused Deposition Modeling (FDM). Printable Area: The minimum printable area is least 310 x 310 x 310 mm 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. :Choose between 1.8° X, Y stepper motors. LCD Screen: 3.5" graphic 65k color screen 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: Physical dimensions of the system 700 X 700 X 700. Fully enclosed Machine.	1	Comply	

2	MANDATORY EQUIPMENT	PCB Milling Machine	FBOTS	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	Comply	
3	MANDATORY EQUIPMENT	CO_2 Laser Cutting Machine	Trilok Lasers	Working Area: Min 600 x 900 mm Laser Type: CO_2 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: CO_2 Focus Lens: 1 No. Mirror 25mm: 3 Nos. Acetone: 1 litre Acrylic sheet: 2 Nos	1	Comply	

4	MANDATORY EQUIPMENT	Vinyl Printer	TITANJET	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	Comply	
5	MANDATORY EQUIPMENT	3D Scanner	Creality CR-Scan Raptor Pro 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 $240 \times 60 \times 60$ mm Compatible OS: Any OS supporting a modern web browser	1	Comply	

| 6 | MANDATORY EQUIPMENT | Lathe Machine cum milling | Qmansys Infosolutions | 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 | Comply | |

7	MANDATORY EQUIPMENT	CNC Router	Qmansys Infosolutions	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	Comply	
8	MANDATORY TOOLS	Belt and Disc Sanding Machine	Mastertech	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	Comply	
9	MANDATORY TOOLS	Scroll Saw	Makita	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	Comply	
10	MANDATORY EQUIPMENT	Wood Turning Lathe	Qmansys Infosolutions	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	Comply	

11	MANDATORY EQUIPMENT	Bench Top Drill Machine	BOSCH	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	Comply	
12	MANDATORY EQUIPMENT	Portable Welding Machine	Shakti Technology	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	Comply	
13	MANDATORY TOOLS	Computerized Sewing Machine	USHA	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	Comply	

14	MANDATORY TOOLS	Filament Dehydrator	SOVOL	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	Comply	
15	MANDATORY EQUIPMENT	Reflow Oven	LG	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	Comply	

| 16 | MANDATORY CONSUMABLES | Digital multimeter | Metravi | 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 | Comply | |

| 17 | MANDATORY EQUIPMENT | MSO 100 MHz | RIGOL | 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

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
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 | 1 | Comply | |

			filter Trigger Types: Edge, Pulse Width, Video, Pulse Runt, Rise & Fall (slope), Alternate,			

| 18 | MANDATORY EQUIPMENT | Digital oscilloscope | TEKTRONICS | 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 | 1 | Comply | |

| 19 | MANDATORY EQUIPMENT | Power supply | OWON P4305 | Output Configuration: 4-channel design with independent electrical isolation across all outputs
Channel Output Ranges:

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 | 1 | Comply | |

| 20 | MANDATORY EQUIPMENT | Function Generator | SGDA | 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. | 1 | Comply | |

| 21 | MANDATORY EQUIPMENT | Bench Top Multimeter | OWON | 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. | 1 | Comply | |

| 22 | MANDATORY TOOLS | Non-Contact Voltage Tester | KAIWEETS | 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 | Comply | |
| 23 | MANDATORY TOOLS | LCR Meter | VAR Tech | 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 | 1 | Comply | |

				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.			
24	MANDATORY EQUIPMENT	Soldering Station	Tectronics	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	Comply	
25	MANDATORY EQUIPMENT	Digital Microscope	GABY INSTRUMENT	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	Comply	

26	MANDATORY TOOLS	Soldering Rework Station	VAR Tech	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	Comply	

27	MANDATORY EQUIPMENT	Hand Drill Machine Cordless drill	BOSCH	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	Comply	
29	MANDATORY TOOLS	Jig Saw	BOSCH	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. 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	1	Comply	

30	MANDATORY TOOLS	Miter Saw	Qmansys Infosolutions	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	Comply	
31	MANDATORY TOOLS	Hot air gun	BOSCH	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	Comply	

32	MANDATORY TOOLS	Table saw	Qmansys Infosolutions	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	Comply	
33	MANDATORY TOOLS	Bench grinder	Qmansys Infosolutions	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	Comply	
34	MANDATORY TOOLS	Angle Grinder	Qmansys Infosolutions	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	Comply	
35	MANDATORY EQUIPMENT	Straight Grinder	BOSCH	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	Comply	

36	MANDATORY TOOLS	Circular Saw	BOSCH	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	Comply	
37	MANDATORY TOOLS	Blower	Qmansys Infosolutions	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	Comply	
38	MANDATORY TOOLS	Cordless Screw Driver	BOSCH	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	Comply	

39	MANDATORY TOOLS	Vacuum Cleaner	inGGO	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	Comply	
40	MANDATORY CONSUMABLES	Random orbit sander	BOSCH	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	Comply	
41	MANDATORY TOOLS	Planer	IBELL	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	Comply	

42	MANDATORY CONSUMABLES	Cordless Vacuum Cleaner with Starter kit	INGCO	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	Comply	
43	MANDATORY TOOLS	Rotary Tool Kit	Decker BCRT8K35-B1	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	Comply	
44	MANDATORY TOOLS	Rubber Grip Hacksaw	TAPARIA	Depth of Throat: Approximately 98 mm (3.85 inches) nominal depth. Blade Length: Around 254 mm (10 inches) standard length.	2	Comply	
45	MANDATORY TOOLS	Hacksaw Mini	TAPARIA	Blade Length: Approximately 10 inches nominal length. Handle Material: Constructed from metal as	2	Comply	

				standard. Overall Length: Around 11 inches total length.			
46	MANDATORY TOOLS	Claw Hammer Steel Shaft	TAPARIA	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	Comply	
47	MANDATORY TOOLS	Ball Pein Hammer	TAPARIA	Weight: Approximately 110 grams nominal weight. Dimensions: Around 32.6 cm × 10 cm × 2 cm (L × W × H) overall measurements.	2	Comply	
48	MANDATORY TOOLS	Rubber mallet	TAPARIA	Weight: Approximately 450 grams nominal weight. Dimensions: Around 33.6 cm × 9.6 cm × 6.2 cm (L × W × H) overall size.	2	Comply	
49	MANDATORY TOOLS	Ring spanner set 12Pcs	TAPARIA	Weight: 3.08 Kg nominal weight. Quantity: 12 pcs per set. Size: 6 mm to 32 mm overall range.	1	Comply	
50	MANDATORY TOOLS	Open end spanner set 12Pcs	TAPARIA	Weight: Approx1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1	Comply	
51	MANDATORY TOOLS	Combination Spanner set 8Pcs	TAPARIA	Weight: Approx649g nom.wt. Qty: 8pcs/set.	1	Comply	
52	MANDATORY TOOLS	Allen key set 10pcs	TAPARIA	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty:10pcs/set	2	Comply	
53	MANDATORY TOOLS	Allen key set 12pcs	TAPARIA	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	Comply	
54	MANDATORY TOOLS	Combination plier	TAPARIA	Weight: Approx422g nom.wt. Size: 8"/200mm nominal	2	Comply	
55	MANDATORY TOOLS	Long nose plier	TAPARIA	Weight: Approx399g nom.wt. Size:180mm/6" nominal	2	Comply	

56	MANDATORY TOOLS	Circlip straight 5"	TAPARIA	Weight: Approx399g nom.wt. Size:130mm/5" nominal	2	Comply	
57	MANDATORY TOOLS	Circlip bent	TAPARIA	"Weight: Approx399g nom.wt. Size:130mm/5"" nominal"	2	Comply	
58	MANDATORY TOOLS	Diagonal Cutter	JOHNSON	"Weight: Approx239g nom.wt. Size:180mm nominal"	2	Comply	
59	MANDATORY TOOLS	Wire Stripper	TAPARIA	Weight: Approx281g nom.wt. Size:130mm nominal	2	Comply	
60	MANDATORY TOOLS	Adjustable spanner	Very Good Quality	Size: Upto 150 mm	2	Comply	
61	MANDATORY TOOLS	Pipe wrench	Very Good Quality	Size: Max 300 mm	2	Comply	
62	MANDATORY TOOLS	C – clamp	Very Good Quality	Size: Upto 75 mm	4	Comply	
63	MANDATORY TOOLS	C-clamp	Very Good Quality	Size: Upto 150 mm	4	Comply	
64	MANDATORY TOOLS	Snap- off Knife	Very Good Quality	Size:18 mmm	2	Comply	
65	MANDATORY TOOLS	16pcs screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	1	Comply	
66	MANDATORY TOOLS	6pcs precision screw driver set	Very Good Quality	Pieces Per Set: 16 pcs	2	Comply	
67	MANDATORY TOOLS	Max steel snip cutter	Very Good Quality	Length: 250 mm	2	Comply	
68	MANDATORY TOOLS	PVC Pipe cutter	Very Good Quality	Length: 42 mm	2	Comply	
69	MANDATORY TOOLS	Hot Glue Gun	Very Good Quality	Power: 40 W	4	Comply	

70	MANDATORY TOOLS	Small file set	Very Good Quality	Length: 160 mm	2	Comply	
71	MANDATORY TOOLS	Big file set	Very Good Quality	Length: 200 mm	2	Comply	
72	MANDATORY TOOLS	Chisel set	Very Good Quality	Weight: 340 gm	2	Comply	
73	MANDATORY TOOLS	Punch set	Very Good Quality	Weight: 390 gm	2	Comply	
74	MANDATORY TOOLS	Bench wise	Very Good Quality	Base Type: Fixed Size:2–3½" nominal JawWidth:60mm	2	Comply	
75	MANDATORY TOOLS	Router Bit Starter Kit	Very Good Quality	Pieces Per Set: 15 pcs	1	Comply	
76	MANDATORY TOOLS	Drill bit set	BOSCH	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 Roundness Accuracy: +/-0.5mmApprox SpoolInnerDia:55mmNominal SpoolOuterDia:200mmApprox SpoolWeight:300gNominal SpoolWidth:65mmApprox	2	Comply	
77	MANDATORY TOOLS	Baby vice	Very Good Quality	Vice Type: Bench Size:2" nominal JawWidth:50mm	2	Comply	
78	MANDATORY TOOLS	Ratchet Set	Very Good Quality	Vice Type: Bench Sz:2" nominal; Jaw:50mm	2	Comply	
79	MANDATORY CONSUMABLES	Pegboard	Very Good Quality		5	Comply	
80	MANDATORY CONSUMABLES	Digital Vernier Caliper	Very Good Quality	Product Type: Digital Calliper Meas.Range:0– 150mm / 0–6" Resolution:0.01mm	2	Comply	
81	MANDATORY CONSUMABLES	Micrometer	Very Good Quality	Resolution:0.001mm/0.00005" Meas.Range:0– 25mm/0–1"	1	Comply	

82	MANDATORY CONSUMABLES	Steel Rule 300mm	Very Good Quality	Product Type: Steel Rule ScaleSize:12"/300mm Material: Stainless Steel	5	Comply	
83	MANDATORY CONSUMABLES	Steel Rule 600mm	Very Good Quality	Product Type: Steel Rule ScaleSize:24"/600mm Material: Stainless Steel	5	Comply	
84	MANDATORY CONSUMABLES	Engineering Square	Very Good Quality	Size:150×80mm nominal Material: Carbon Steel	2	Comply	
85	MANDATORY CONSUMABLES	Meter Tape 30m	Very Good Quality	Length: 30 m	1	Comply	
86	MANDATORY CONSUMABLES	Measuring Tape 3M	Very Good Quality	Length: 3 m	3	Comply	
87	MANDATORY CONSUMABLES	Measuring Tape 5M	Very Good Quality	Length: 5 m	3	Comply	
88	MANDATORY CONSUMABLES	Spirit Level	Very Good Quality	Vials:3 Accuracy:0.5mm/m Length:300mm Product Type: Level	3	Comply	
89	MANDATORY CONSUMABLES	Goggle	Very Good Quality	Goggle – Industrial Standard Make	5	Comply	
90	MANDATORY CONSUMABLES	Apron	Very Good Quality	Apron - Standard Make	5	Comply	
91	MANDATORY CONSUMABLES	Ear Muff	Very Good Quality	Earmuff – Industrial Standard Make	5	Comply	
92	MANDATORY CONSUMABLES	Mask	Very Good Quality	Mask – Industrial Standard Make	50	Comply	
93	MANDATORY CONSUMABLES	Fire Extinguisher	Very Good Quality	Fire Extinguisher– Industrial Standard Make	6	Comply	
94	MANDATORY CONSUMABLES	First Aid Kit	Very Good Quality	First Aid Kit – Industrial Standard Make	2	Comply	
95	MANDATORY CONSUMABLES	Gloves Pair	Very Good Quality	Gloves – Industrial Standard Make	10	Comply	

96	MANDATORY EQUIPMENT	Normal Oven	LG	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	Comply	
97	MANDATORY EQUIPMENT	Refrigerator	LG	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	Comply	
98	MANDATORY EQUIPMENT	Smart Board	SAMSUNG	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	Comply	

99	MANDATORY EQUIPMENT	Projector	EPSON	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 FNumber:1.44 Nominal Zoom:1.44-1.95 Ratio (Wide to Tele) ThrowRatioRange:1.00–1.35(Digital Zoom Approx Projection Lens: Type: No Optical Zoom/Focus (Manual)Nominal FocalLength:16.70mm Approx	1	Comply	

| 100 | MANDATORY EQUIPMENT | Printer | HP | 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/m^2)Approx PaperOutput:Upto100Sheets(80g/m^2)FaceDownTray;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:Upto19200×19200dpiApprox 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 | Comply | |
| 101 | MANDATORY EQUIPMENT | Desktop | HP | CPU: INTEL CORE I7-12THGEN or Higher RAM:8GB+512GB SSD or more Conn: LAN+WIFI+BLUTOOTH+KEYMOUSE Display:20" DESKTOP MONITOR | 5 | Comply | |

102	MANDATORY CONSUMABLES	3D printer Filament	Very Good Quality	Weight Kg: 1 Approx Melt Flow Index: 2 (190°C/2.16kg) Nominal FilamentLength:330mApprox Dim Accuracy: +/-0.1mmApprox	10	Comply
						Comply
103	MANDATORY CONSUMABLES	Acrylic Sheet 3mm, 4ft x 4ft	Very Good Quality		20	Comply
104	MANDATORY CONSUMABLES	Acrylic Sheet 4mm, 4ft x 4ft	Very Good Quality		20	Comply
105	MANDATORY CONSUMABLES	Acrylic Sheet 5mm, 4ft x 4ft	Very Good Quality		20	Comply
106	MANDATORY CONSUMABLES	Foam Sheet 8mm, 4ft x 4ft	Very Good Quality		2	Comply
107	MANDATORY CONSUMABLES	Foam Sheet 10mm, 4ft x 4ft	Very Good Quality		1	Comply
108	MANDATORY CONSUMABLES	Foam Sheet 12mm, 4ft x 4ft	Very Good Quality		1	Comply
109	MANDATORY CONSUMABLES	Foam Sheet 15mm, 4ft x 4ft	Very Good Quality		1	Comply
110	MANDATORY CONSUMABLES	Ply Board 5mm, 2ft x 4ft	Very Good Quality		12	Comply
111	MANDATORY CONSUMABLES	Nylon Rod 10mm, 1m	Very Good Quality		5	Comply
112	MANDATORY CONSUMABLES	Nuts (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of 100	Very Good Quality		1	Comply

113	MANDATORY CONSUMABLES	Bolts (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) dia 1" Inch Pack of 100	Very Good Quality		1	Comply
114	MANDATORY CONSUMABLES	Screws (3mm,4mm,5mm) Pack of 100	Very Good Quality		1	Comply
115	MANDATORY CONSUMABLES	Washers (3mm,4mm,5mm, 6mm,8mm,10mm, 12mm) Pack of 100	Very Good Quality		1	Comply
116	MANDATORY CONSUMABLES	Studs (6mm,8mm) 1 Meter	Very Good Quality		2	Comply
117	MANDATORY CONSUMABLES	Nails (1",2",3",1.5",5") Pack of 100	Very Good Quality		1	Comply
118	MANDATORY CONSUMABLES	Fevicol 2Kg	Very Good Quality		1	Comply
119	MANDATORY CONSUMABLES	2 Way Tape	Very Good Quality		10	Comply
120	MANDATORY CONSUMABLES	PVC Pipe .75",10ft	Very Good Quality		10	Comply
121	MANDATORY CONSUMABLES	PVC Pipe 1",10ft	Very Good Quality		10	Comply
122	MANDATORY CONSUMABLES	PVC Pipe 1.5",10ft	Very Good Quality		10	Comply
123	MANDATORY CONSUMABLES	PVC Pipe 2.0",10ft	Very Good Quality		10	Comply
124	MANDATORY CONSUMABLES	Aluminium channels (L, C, Box, strip length 12ft)	Very Good Quality		2	Comply

125	MANDATORY CONSUMABLES	PCB Drill Bit 0.4mm	Very Good Quality		10	Comply	
126	MANDATORY CONSUMABLES	PCB Drill Bit 0.8mm	Very Good Quality		10	Comply	
127	MANDATORY CONSUMABLES	PCB Drill Bit 1mm	Very Good Quality		10	Comply	
128	MANDATORY CONSUMABLES	Drill Bit 4mm	Very Good Quality		10	Comply	
129	MANDATORY CONSUMABLES	Drill Bit 5mm	Very Good Quality		10	Comply	
130	MANDATORY CONSUMABLES	Drill Bit 6mm	Very Good Quality		10	Comply	
131	MANDATORY CONSUMABLES	Arduino UNO R3	Very Good Quality		5	Comply	
132	MANDATORY CONSUMABLES	Arduino NANO	Very Good Quality		5	Comply	
133	MANDATORY CONSUMABLES	Arduino Mega	Very Good Quality		3	Comply	
134	MANDATORY CONSUMABLES	Raspberry Pi Model 4B, 4GB	Very Good Quality		3	Comply	
135	MANDATORY CONSUMABLES	ESP8266 NodeMCU	Very Good Quality		2	Comply	
136	MANDATORY CONSUMABLES	ESP32 Development Board	Very Good Quality		2	Comply	
137	MANDATORY CONSUMABLES	Beaglebone blu	Very Good Quality		1	Comply	
138	MANDATORY CONSUMABLES	Beaglebone Black	Very Good Quality		1	Comply	

139	MANDATORY CONSUMABLES	Voltage Regulator Module	Very Good Quality		2	Comply	
140	MANDATORY CONSUMABLES	Mini Micro submersible Water Pump	Very Good Quality		2	Comply	
141	MANDATORY CONSUMABLES	Piezoelectric Plate	Very Good Quality		2	Comply	
142	MANDATORY CONSUMABLES	8*8 LED Matrix Module	Very Good Quality		2	Comply	
143	MANDATORY CONSUMABLES	Bluetooth	Very Good Quality		2	Comply	
144	MANDATORY CONSUMABLES	7 Segment LED Display	Very Good Quality		2	Comply	
145	MANDATORY CONSUMABLES	GSM/GPRS/GPS Module	Very Good Quality		2	Comply	
146	MANDATORY CONSUMABLES	Laser Module	Very Good Quality		2	Comply	
147	MANDATORY CONSUMABLES	LDR Module	Very Good Quality		2	Comply	
148	MANDATORY CONSUMABLES	4×4 Matrix Keypad	Very Good Quality		2	Comply	
149	MANDATORY CONSUMABLES	Joy Stick Module	Very Good Quality		2	Comply	
150	MANDATORY CONSUMABLES	Active Buzzer (BIG)	Very Good Quality		2	Comply	
151	MANDATORY CONSUMABLES	Active Buzzer (SMALL)	Very Good Quality		2	Comply	
152	MANDATORY CONSUMABLES	Motor Driver	Very Good Quality		2	Comply	

153	MANDATORY CONSUMABLES	Sound Playback Module	Very Good Quality		2	Comply	
154	MANDATORY CONSUMABLES	BO Motors	Very Good Quality		10	Comply	
155	MANDATORY CONSUMABLES	Vibrating Motor	Very Good Quality		10	Comply	
156	MANDATORY CONSUMABLES	Capacitive Touch Switch	Very Good Quality		2	Comply	
157	MANDATORY CONSUMABLES	IR Sensors (Obstacle Sensors)	Very Good Quality		2	Comply	
158	MANDATORY CONSUMABLES	Triple Axis Magnetometer	Very Good Quality		2	Comply	
159	MANDATORY CONSUMABLES	Humidity Sensor	Very Good Quality		2	Comply	
160	MANDATORY CONSUMABLES	MQ-2	Very Good Quality		2	Comply	
161	MANDATORY CONSUMABLES	MQ-3	Very Good Quality		2	Comply	
162	MANDATORY CONSUMABLES	MQ-4	Very Good Quality		2	Comply	
163	MANDATORY CONSUMABLES	MQ-5	Very Good Quality		2	Comply	
164	MANDATORY CONSUMABLES	MQ-7	Very Good Quality		2	Comply	
165	MANDATORY CONSUMABLES	Ultrasonic Sensor Module	Very Good Quality		2	Comply	
166	MANDATORY CONSUMABLES	Triple Axis accelerometer	Very Good Quality		2	Comply	

167	MANDATORY CONSUMABLES	PIR Motion Detector Module	Very Good Quality		2	Comply	
168	MANDATORY CONSUMABLES	Pulse Rate Heart Sensor	Very Good Quality		2	Comply	
169	MANDATORY CONSUMABLES	Relay Module	Very Good Quality		2	Comply	
170	MANDATORY CONSUMABLES	Soil Moisture Sensor	Very Good Quality		2	Comply	
171	MANDATORY CONSUMABLES	Touch Sensor	Very Good Quality		2	Comply	
172	MANDATORY CONSUMABLES	Rain Drop Sensor	Very Good Quality		2	Comply	
173	MANDATORY CONSUMABLES	Flex Sensor	Very Good Quality		2	Comply	
174	MANDATORY CONSUMABLES	Temperature Sensor	Very Good Quality		2	Comply	
175	MANDATORY CONSUMABLES	Force Pressure Sensor	Very Good Quality		2	Comply	
176	MANDATORY CONSUMABLES	Colour Recognition Sensor	Very Good Quality		2	Comply	
177	MANDATORY CONSUMABLES	Water Flow Sensor	Very Good Quality		2	Comply	
178	MANDATORY CONSUMABLES	Sound Sensor	Very Good Quality		2	Comply	
179	MANDATORY CONSUMABLES	IR Sensor Array for Line Following	Very Good Quality		2	Comply	
180	MANDATORY CONSUMABLES	RFID Reader-Tags	Very Good Quality		2	Comply	

181	MANDATORY CONSUMABLES	RF Modules Tx& Rx 315 MHz ASK	Very Good Quality		2	Comply	
182	MANDATORY CONSUMABLES	Stepper motor with Driver Board	Very Good Quality		2	Comply	
183	MANDATORY CONSUMABLES	Servo Motor 360 rotation	Very Good Quality		10	Comply	
184	MANDATORY CONSUMABLES	Servo Motor 180 rotation	Very Good Quality		10	Comply	
185	MANDATORY CONSUMABLES	Metal Gear Servo Motor (180° Rotation)	Very Good Quality		10	Comply	
186	MANDATORY CONSUMABLES	Solder Wire 100grm	Very Good Quality		10	Comply	
187	MANDATORY CONSUMABLES	Solder Flux	Very Good Quality		10	Comply	
188	MANDATORY CONSUMABLES	830 Points Solderless Breadboard	Very Good Quality		5	Comply	
189	MANDATORY CONSUMABLES	400 Points Solderless Breadboard	Very Good Quality		5	Comply	
190	MANDATORY CONSUMABLES	Copper Clad Board single side	Very Good Quality		10	Comply	
191	MANDATORY CONSUMABLES	Copper clad board double side	Very Good Quality		10	Comply	
192	MANDATORY CONSUMABLES	Male to Male Breadboard Jumper	Very Good Quality		10	Comply	
193	MANDATORY CONSUMABLES	Female to Female Breadboard Jumper	Very Good Quality		10	Comply	
194	MANDATORY CONSUMABLES	Male to Female Breadboard Jumper	Very Good Quality		10	Comply	