

S No.	NAME OF ITEMS	SPECIFICATIONS	TOTAL REQUIRED
1	Laptop	<b>Intel Core i7 Processor minimum 12th Generation</b> , RAM 16 GB, 1 TB SSD, Integrated Graphic Card, DVD Writer (optional), Display Size : 15.6 inch, Battery Warranty 3 Years Windows 11 Professional, Onsite OEM Warranty : 3 years, (Make : Lenovo/Dell/HP)	03
2	Desktop Computer	<b>Intel Core i7 Processor minimum 12th Generation</b> , RAM 16 GB, 1 TB HDD, Integrated Graphic Card, DVD Writer, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, Display Size : 22 inch, Windows 11 Professional, Keyboard and Mouse wired, Onsite OEM Warranty : 5 years, (Make : Lenovo/Dell/HP)	06
3	Functional /experiment model of different type of sensors.	<b>With Different type of sensors like</b> -Throttle Position Sensor, Manifold Absolute Pressure Sensor, Engine Coolant Temperature Sensor, Vehicle Speed Sensor, Oxygen Sensor, Crankshaft Position Sensor, Camshaft Position Sensor, Intake Air Temperature Sensor, Mass Air Flow Sensor, Knock Sensor with ECU.	01
4	Working model of torque converter	Working model of torque converter, (Speed control with DC Motor), with input of 220/240 volts, 50 Hz.	01
5	LCR meter (Digital) Handheld	3-1/2 Digits Large LCD Display, <b>Resistance:</b> 0–200/2k/20k/200k/2M/20MΩ., <b>Capacitance:</b> 0–2n/20n/200n/2u/20u/200u/2000uF, <b>Inductance:</b> 0–200u2m/20m/200m/2H/20H, Transistor Test, Diode Test, Audible Continuity Test Facility	01
6	EV Charger	<b>Minimum 3.5" inches with 720x480 pixels Display, 3 phase input</b> , Output power-22 KW, Input Voltage-400V (L-L)-5 wires (R, Y,B,N, PE), Number of Outputs - 1 Number Output Connector - Max. 32A, Push Button - Emergency stop Protection, Over Voltage, Under Voltage, Over Current, Surge Protection Device, Emergency Shutdown, NE (Neutral - Earth) Voltage Tripping, Inbuilt RCMU (Residual Current Monitoring Unit) Charger and Vehicle, Charger and CMS - Both options available GSM (2G/3G/4G) and Wi-Fi (Wire-Less) <b>Features</b> - 1. Compact Design Robust, Suitable for indoor and outdoor use (IP-54 protection) 2. Current control between 6A - 32 A inbuilt Residual current Monitoring Unit (RCMU) 3. Easy to install.	01

7	<b>EV Charger (Home)</b>	<p><b>Minimum 3.5” inches with 720x480 pixels Display, 1 phase input, Output power–7.4 KW, Input Voltage 230V (L-N) 3 wires (L-N-PE) Number of Outputs – 1 Number Output Current rating – Max. 32A, Push Button – Emergency stop Protection, Over Voltage, Under Voltage, Over Current, Surge Protection Device, Emergency Shutdown, NE (Neutral–Earth) Voltage Tripping, Inbuilt RCMU (Residual Current Monitoring Unit) Charger– Both options available GSM (2G/3G/4G) and Wi-Fi (Wire-Less)</b></p> <p><b>Features –</b> 1. Compact Design Robust, Suitable for indoor and outdoor use (IP-54 protection) 2. Current control between 6A – 32 A for 7.4 KW inbuilt Residual current Monitoring Unit (RCMU) 3. Easy to install</p>	01
8	<b>1 Phase - Smart Energy Meter</b>	<p>LCD (Six digits) 240 volts (P-N), 10-60 Amp with 120% overload capacity,</p> <p><b>Features-</b> 1. WAN — HAN upgradable, 2. Programmable TOU/TOD, 3. Multi-vendor — MDMS Capable, 4. Anti-Tamper and Tamper alerts by Instant Push, 5. Smart AMI with Programmable Post/Pre-payment and Net metering Modes, 6. UC1 load switch with Configurable Demand and Peak load.</p> <p><b>SPECIFICATION Measurement-</b></p> <ul style="list-style-type: none"> <li>• Active and Apparent measurements both in import and export</li> <li>• Programmable Block Window and Sliding Window MD Calculation methods</li> </ul> <p><b>Time Clock and Calendar -</b> • Inbuilt RTC, • Accuracy (internal) as per standard, within 15 seconds per month</p> <p><b>Security -</b> • Multi-level security (user name and password including encrypted log-in), • Up to seven independent security levels</p> <p><b>Communication -</b> • DLMS inbuilt Client and Server mode</p> <ul style="list-style-type: none"> <li>• Optical, AMI and serial ports, • Pluggable and Technology interoperable WAN port</li> </ul> <p><b>Battery Options -</b> • Internal battery for Display and back up Separate Battery for RTC</p> <p><b>LCD Display -</b> • LCD segment display, • Real-time Programmable display parameters,</p> <ul style="list-style-type: none"> <li>• Display digit size: 4.5mm (W): 10mm (H)</li> </ul> <p>Display available even without mains power</p>	01

9	<b>3 Phase - Smart Energy Meter</b>	<p>LCD (Six digits),240 volt (P-N), 415 volt (P-P), 20-100 amp with 120 % overload capacity,</p> <ol style="list-style-type: none"> <li>1. Smart AMI with Programmable Post/Pre-payment and Net metering Modes</li> <li>2. Multi-vendor Inter operable Communication with self-integrable capability</li> <li>3. Anti-Tamper and Tamper alerts by Event Push, 4. Programmable TOU/TOD</li> <li>5. WAN — HAN upgradable, 6. UC1 load switch with Configurable Demand and Peak load</li> </ol> <p><b>Measurement</b> - • Active and Apparent measurements both in import and export</p> <ul style="list-style-type: none"> <li>• Programmable Block Window and Sliding Window MD Calculation methods</li> </ul> <p>Security, • Multi-level security (user name and password including encrypted log-in), • Up to seven in dependent security levels, • Display available even without mains power Environmental, • Inbuilt storage as per standard — expandable at factory, • Intervals programmable from 1 to 60 minutes</p> <p><b>Time Clock and Calendar</b></p> <ul style="list-style-type: none"> <li>• Inbuilt RTC, • Communication Variants, • Pluggable GPRS 2G/3G</li> </ul> <p><b>Battery Options</b></p> <ul style="list-style-type: none"> <li>• Internal battery for Display and backup, • Separate Battery for R T C</li> </ul> <p><b>Tamper Detection and Alarms</b></p> <ul style="list-style-type: none"> <li>• Alarms trigger, • Alarm Trigger Push, • Alarms are stored in event logs</li> <li>• Self - diagnostic feature, • Up to 200 Events storage</li> </ul> <p><b>Prepayment</b> - •Inbuilt Prepayment mode, • Real-time pre-payment and post payment selection.</p>	01
10	<b>Smart Board</b>	<p>75", 16:09 Backlight LED Display (IPS Panel), Windows 7 and above, Android™ 11.0 embrdded system, Quad-core CPU, 4GB DDR3, 32GB storage,Touch Point 20/24, HDMI, Earphone, MIC, wifi connectivity, Bluetooth, AC Power Cord, VGA Cable, USB Cable, Audio Cable, Stylus (x3), Wall Mount Kit, Remote Control.</p>	01