

Quotation Notice No.9/13-10-2023

Energy Division, IRTC Equipment and components - 3

Inviting quotation for supplying Equipment/Components in IRTC campus and quotation should be sent before 20-10-2023, 5 P M to mail@irtc.org.in

Specifications for equipment and components

Sl. No.	Equipment	Quantity	Specifications
1	2 in 1 Soldering Desoldering station	1	<p>Input Voltage: 240 V Temperature: 160 to 480 Degree C Power: 60 W Frequency: 50 Hz Power source: Electric Display Type: LED Tip: Variable The Soldering Iron and Desoldering Iron can be operated together or independently.</p>
2	DC Power supply	1	<p>Output Type: Single Output Voltage: 0-80V Output Current: 20A Ripple Less than: 1 mV Meter: Two digital meters to monitor the output voltage and current</p>
3	Autotransformer	1	<p>Power: 5000 VA Phase: Single Phase Voltage:0 - 300 Volts, 20 Amps Usage/Application: Testing Purpose Cooling Type: Dry Type/Air Cooled, Oil Cooled AUTO</p>

4	Battery tester	1	Power Supply: 8-30V DC Working Temperature: 20 to 60°C Output Voltage (V DC): 12V-24V Display Type: LCD
5	Function Generator	1	Frequency of models: 0.1Hz-2MHz Output waveform: Sine, Triangle, Square, ± Ramp, ± Pulse Voltage Control Frequency (VCF) Capability TTL/CMOS and output synchronous output less than 1% distortion at 10Hz-100Khz Less than 0.5dB frequency response at 0.1Hz-100Khz,1Hz-30MHz frequency counter
6	RMS clamp meter	1	AC Current - Sensing Range: 400.0 A DC Voltage: 600.0 V
7	AC DC load analyser	1	Incandescent Bulbs of 5 W,10 W,20W,50W,100W each (5 NOS) 500W (2 NOS),1000W (2 NOS)
8	Bread board	1	400 points (10nos)
9	Solar irradiation meter	1	Measurements <ul style="list-style-type: none"> • solar irradiance, ambient and PV module temperature, array orientation and tilt angles (Make instantaneous measurements to determine the watts per square meter solar irradiation, required by IEC 62446-1 standard) Temperature measurements <ul style="list-style-type: none"> • Measuring range (°C): -30 °C to 100 °C • Resolution: 0.1 °C / 1 °C @>50 °C

			<ul style="list-style-type: none"> Measuring Accuracy: $\pm 1\text{ }^{\circ}\text{C}$ @ -10 $^{\circ}\text{C}$ to 75 $^{\circ}\text{C}$, ± 4 -30 $^{\circ}\text{C}$ to -10 $^{\circ}\text{C}$ and 75 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$
10	Anemometer	1	<p>Accuracy: $\pm 0.5\text{m/s}$ ($< 5\text{m/s}$) ($\pm 3\%$FS (5m/s)) Display Type: Digital Sensors: Wireless Range: ± 100 Mtr. *, Can be connected using software Input Voltage Requirement: Pulse signal (HZ) 0-5VDC 4-20mA</p>
11	DSO	1	<p>Channels: 2 Bandwidth: 50MHz Sample Rate: 500Ms/s Rise Time: $\approx 7\text{ns}$ Memory Depth: 25kpts Waveform Acquisition Rate: ≈ 2000wfms/s Vertical Sensitivity: 1mV/div~20V/div Time base Range: 5ns/div~50s/div Storage: Setup, Wave, Bitmap Interface: USB OTG Power: 100-240VAC, 40-440Hz</p>
12	Earth leakage tester	1	<p>AC Voltage: 2-750V, DC Voltage: 200mV-1000V, AC Current: 200A to 1000A, DC Current: 200A to 1000A, Capacitance: 9.999nF- 99.9uF, Frequency: 9.999Hz-9.999MHz, Resistance: 200Ω- 20 MΩ, Temperature: 20$^{\circ}\text{C}$ ~ 750$^{\circ}\text{C}$.</p>



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Integrated Rural Technology Centre
Mundur, Palakkad, Kerala