

**Annexure I****Technical Specifications of Equipment:**

**Name of work:** - Fabrication, Installation, Commissioning & testing of Light, Fan, Motor and External Lighting Accessories Test Bench at MMCT, VR,KILE EMU Car Shed.

**1. Soldering Station (Scope of work point no. 2)**

- Min Power: 30 W
- Operating Voltage: 220-240 VAC, 50 Hz

**2. Digital Lux Meter (Scope of work point no. 6)**

- Minimum Measurement Range: 0 – 9000 Lux
- Accuracy:  $\pm 5\%$  of readings
- Measured Unit: Lux (Lx)
- Sensor Type: Silicon Photodiode Light Sensor
- External Light Sensor Probe
- Data Hold Function

**3. LED Multifunction Meter (Scope of work point no. 9)**

- Accuracy :  $\pm 5\%$  of readings
- Minimum Measurement Range Voltage: 0-440V AC (3-phase)  
Current: 0-5A
- Mounting: Flush Type Front Panel
- The meter shall measure and display:  
Voltage (V)-phase & Line  
Current (A)  
Active Power (kW)  
Power Factor (PF)
- Multi-parameter auto/manual scrolling

**4. Digital display unit (Scope of work point no. 8)**

- Accuracy :  $\pm 5\%$  of readings
- Minimum Measurement Range Voltage: 0-140V AC (1-phase)  
Current: 0-2A
- Mounting: Flush Type Front Panel
- The meter shall measure and display:  
Voltage (V)-  
Current (A)  
Power (W)
- Multi-parameter auto/manual scrolling

**5. Anemometer (Scope of work point no. 7)**

- Accuracy:  $\pm 5\%$  of readings
- Sensing: Conventional Angular Vane Arm with Low Friction Ball Bearing with external probe type
- Air Velocity Range: Suitable to measure min air delivery of 85m<sup>3</sup>/min
- Measurement Units: m/s, ft/min (Air Velocity)
- Air Flow Units: CFM (ft<sup>3</sup>/min), CMS (m<sup>3</sup>/s).
- Data hold Function

**6. Micro Ohm Meter for Phase Checking (Scope of Work Point No. 11)**

- Min Measurement range: 0-50ohm
- Accuracy:  $\pm 5\%$  of readings
- Digital LCD display with test leads and probes.

**7. MCB Protection for External Loads (Scope of Work Point No. 18)**

- MCB rating shall be according to load requirement i.e. rating of measuring equipments.
- Breaking capacity: minimum 6 kA.
- MCB shall comply with relevant IS/IEC standards.
  - Tripping curve: C

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SSR/AC/AL