

ANNEXURE-1

Scope of Supply for Instrumentation required for commissioning and field-testing of the equipment

1. Multimeter

Multimeter shall meet following technical requirements:-

- (i) Multimeter shall be 6,000 Count Resolution with true RMS voltage and current measurements capability.
- (ii) Multimeter shall have 0.09% dc accuracy, measure current up to 10A ac/dc, measure voltage up to 1000V ac and dc , frequency up to 100 KHz, capacitance up to 10000 μ f, resistance 50 M Ohm, continuity and diode check facility.
- (iii) Multimeter shall have a digital LCD display with an analog bar graph.
- (iv) Multimeter shall have frequency, capacitance, resistance, continuity and diode measurements.
- (v) Multimeter shall be independently tested for safe use in CATIV 600V/ CAT III 1000V environments. All inputs are protected to IEN61010-1 CATIV 600V/CAT III 1000V.
- (vi) Calibration Certificate valid for 1 year.

2. Clamp Meter

Clamp meter shall meet following technical requirements

- (i) AC current measurement range: Up to 1000 Amp with resolution less than 1 Amp, Accuracy 2% or better.
- (ii) DC current measurement range: Up to 1000 Amp with resolution less than 1 Amp, Accuracy 2% or better.
- (iii) AC voltage measurement range: Up to 1000 V with resolution less than 1 V, Accuracy 2% or better.
- (iv) DC voltage measurement range: Up to 1000 V with resolution less than 1 V, Accuracy 2% or better.
- (v) Resistance measurement range: Up to 60 K Ω with accuracy 1% or better
- (vi) Capacitance measurement range: Up to 1 mF with accuracy 1% or better
- (vii) Frequency measurement (AC coupling) range: Up to 1 kHz with accuracy less than 1%.
- (viii) Measurement category: CAT III 1000V, CAT IV 600 V
- (ix) Jaw opening: Up to 40 mm or higher
- (x) Operating temp: 0°C - 50°C
- (xi) Applicable Standard: EMC-EN61326, Safety-IEC 61010
- (xii) Accessories included: Battery, Test leads with one additional set.
- (xiii) Calibration Certificate valid for 1 year

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3. Vane anemometer

Vane Anemometer shall meet following technical requirements:-

Measuring Range: 0.4 to 20 m/s

Accuracy: ± 0.2 with resolution 0.1 m/s

Operating Temperature: -10°C to 50°C

Data Hold – Yes

Automatic Power Off – Yes