



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TANGEDCO MOBILE TESTING LABORATORY, EE RURAL OFFICE CAMPUS,SIVANTHIPATTI ROAD, TANGEDCO,THIYAGARAJANAGAR, TIRUNELVELI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3438

Validity 28/07/2022 to 27/07/2024

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Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Mobile Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1 Phase & 3 Phase- 3 wire / 3 Phase 4 wire) 30 V to 239 V, 1mA to 10 A, ZPF LG/LD to UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 Wh to 49674 Wh	0.036%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) 240 V to 480 V, 1mA to 120 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 Wh to 99763 Wh	0.030%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) 240 V to 480 V, 1mA to 120 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 W to 99763 W	0.031%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) , 30 V to 239 V, 1mA to 10 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 W to 4140 W	0.032%



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) 240 V to 480 V, 1mA to 120 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 Varh to 99763 Varh	0.032%
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) 30 V to 239 V, 1mA to 10 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 varh to 49674 Varh	0.030%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Power (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire) 240 V to 480 V, 1mA to 120 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 VAR to 99763 VAR	0.031%
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Power (1 Phase & 3 Phase 3 wire / 3 Phase 4 wire), 30 V TO 239 V, 1mA to 10 A, ZPF LG/LD TO UPF, 47.5 Hz to 52.5 Hz	Using MTE PRS 600.3 Reference with SQE 120.3 source by Direct / Comparison method	0.05 VAR to 4140 VAR	0.030%

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.