



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TANGEDCO MOBILE TESTING LABORATORY, EE RURAL OFFICE CAMPUS,
SIVANTHIPATTI ROAD, TANGEDCO, THIYAGARAJA NAGAR, TIRUNELVELI, TAMIL
NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3438

Page No

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Validity

28/07/2024 to 27/07/2026

Last Amended on

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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)(±)
Mobile Calibration					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Active Energy @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.1 PF Lag / Lead)	Using 3 Phase power source and portable reference standard by Comparison method	0.009 Wh to 17280 Wh	0.402 % to 0.161 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Active Energy @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.5 PF Lag / Lead to UPF)	Using 3 Phase power source and portable reference standard by Comparison method	0.045 Wh to 172800 Wh	0.023 % to 0.029 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Active Power @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.1 PF Lag/ Lead)	Using 3 phase power source and portable reference standard by Comparison method	0.009 W to 17280 W	0.402 % to 0.161 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Active Power @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.5 PF Lag/Lead to UPF)	Using 3 phase power source and portable reference standard by Comparison method	0.045 W to 172800 W	0.027 % to 0.029 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Reactive Energy @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.1 PF Lag / Lead)	Using 3 Phase power source and portable reference standard by Comparison method	0.09 VARh to 171936 VARh	0.401 % to 0.161 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Reactive Energy @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.5 PF Lag / Lead to UPF/ZPF)	Using 3 Phase power source and portable reference standard by Comparison method	0.078 VARh to 172800 VARh	0.023 % to 0.029 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Reactive Power @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.1 PF Lag / Lead)	Using 3 Phase power source and portable reference standard by Comparison method	0.09 VAR to 171936 VAR	0.402 % to 0.161 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase & 3 Phase (4 Wire) Reactive Power @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 1 mA to 120 A, 0.5 PF Lag / Lead to UPF/ZPF)	Using 3 Phase power source and portable reference standard by Comparison method	0.078 VAR to 172800 VAR	0.023 % to 0.028 %



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9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Frequency	Using 3 Phase power source and portable reference standard by Comparison method	45 Hz to 65 Hz	0.023 % to 0.025 %

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