



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TNPDCL MOBILE LABORATORY, SE EDC OFFICE CAMPUS, TNPDCL, ERIPALAYAM,
UDUMALAIPETTAI, TIRUPPUR, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4489

Page No

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Validity

24/07/2025 to 09/03/2029

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) ()	1 Phase and 3 Phase Reactive Energy (3 Wire and 4 Wire) @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 2 mA to 100 A, 0.1 PF to UPF Lag/ Lead)	Using Reference 3 Phase Comparator and Source by Comparison Method	0.06 VARh to 144 kVARh	0.402 % to 0.028 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) ()	1 Phase and 3 Phase Active Energy (3 Wire and 4 Wire) @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 2 mA to 100 A, 0.1 PF to UPF Lag/ Lead)	Using Reference 3 Phase Comparator and Source by Comparison method.	0.06 Wh to 144 kWh	0.402 % to 0.028 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) ()	1 Phase and 3 Phase Active Power (3 Wire and 4 Wire) @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 2 mA to 100 A, 0.1 PF to UPF Lag/ Lead)	Using Reference 3 Phase Comparator and Source by Comparison Method.	0.06 W to 144 kW	0.422 % to 0.028 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) ()	1 Phase and 3 Phase Reactive Power (3 Wire and 4 Wire) @ 47.5 Hz to 52.5 Hz (30 V to 480 V, 2 mA to 100 A, 0.1 PF to UPF Lag/ Lead)	Using Reference 3 Phase Comparator and Source by Comparison Method	0.06 VAR to 144 kVAR	0.413 % to 0.028 %



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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)($\pm$)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) ()	Frequency	Using Reference 3 Phase Comparator and Source by Comparison Method	47.50 Hz to 52.50 Hz	0.025 %

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