National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AADHNI MEASUREMATIC INDIA ELECTRICAL LAB LLP, 9, 14TH CROSS STREET, MAHARAJA NAGAR, TIRUNELVELI, TIRUNELVELI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/05/2025 to 13/05/2029 **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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.2 Wh to 30 kWh	0.05 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Reactive Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.2 VArh to 30 kVArh	0.05 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase AC Active Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.6 Wh to 90 kWh	0.05 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Reference Standard with Source by Comparison Method	10 mA to 100 A	0.026 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy (3Phase) @ 40 V to 300 V, 45Hz to 55Hz, 10 mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Source By Comparison Method	0.6 Varh to 90 kVarh	0.05 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Reference Standard with Source by Comparison Method	40 V to 300 V	0.026 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using Three Phase Reference Standard with Source by Comparison Method	45 Hz to 55 Hz	0.03 Hz
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (40 V to 300 V, 10 mA to 100 A)	Using Three Phase Reference Standard with Source by Comparison Method	0.1 (Lead & Lag) PF to UPF	0.026 PF

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.2 Wh to 30 kWh	0.05 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Reactive Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.2 VArh to 30 kVArh	0.05 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase AC Active Energy @ 45 Hz to 55 Hz (40 V to 300 V, 10 mA to 100 A, 0.5 PF(Lead/Lag) to UPF)	Using Three Phase Reference Standard with Source by Comparison Method	0.6 Wh to 90 kWh	0.05 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Reference Standard with Source by Comparison Method	10 mA to 100 A	0.034 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy (3Phase) @ 40 V to 300 V, 45Hz to 55Hz, 10 mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Source By Comparison Method	0.6 Varh to 90 kVarh	0.05 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Reference Standard with Source by Comparison Method	40 V to 300 V	0.028 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using Three Phase Reference Standard with Source by Comparison Method	45 Hz to 55 Hz	0.03 Hz
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (40 V to 300 V, 10 mA to 100 A)	Using Three Phase Reference Standard with Source by Comparison Method	0.1(Lead & Lag) PF to UPF	0.03 PF

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