National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3992

Issue Date: 20/07/2024 **Valid Until:** 19/07/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: Measurements International LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3992	**Page No**	1 of 10
Validity	20/07/2024 to 19/07/2026	**Last Amended on**	11/08/2025

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)	Capacitance @ 50 Hz, 1 kV to 100 kV	Using Automatic Capacitance Bridge and HV Standard Capacitor by comparison (using ratio measurement) method	100 pF	0.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 50 Hz, 120 V to 600 V	Using Automatic Capacitance Bridge and Standard Reference Capacitor by comparison (using ratio measurement) method	1000 pF	0.0026 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 50 Hz, upto 100 kV	Using Automatic Capacitance Bridge and HV Standard Capacitor by comparison (using ratio measurement) method	50 pF	0.6 %

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-3992
Page No	2 of 10
Validity	20/07/2024 to 19/07/2026
Last Amended on	11/08/2025

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)(±)
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Dissipation Factor (Tan Delta) @ 50 Hz, 120 V to 100 kV	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	0 to 10 %	0.05 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by direct method	2 A to 20 A	0.2 % to 0.3 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by direct method	200 µA to 200 mA	0.2 % to 0.09 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by direct method	200 mA to 2 A	0.09 % to 0.2 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by direct method	20 mV to 200 mV	0.2 % to 0.05 %

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-3992
Page No	3 of 10
Validity	20/07/2024 to 19/07/2026
Last Amended on	11/08/2025

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)(±)
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by direct method	200 mV to 1000 V	0.05 % to 0.3 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Precision Digital Multimeter and DC Voltage Source by comparison method	1 V to 10 V	0.5 % to 0.06 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Precision Digital Multimeter and DC Voltage Source by comparison method	10 V to 1000 V	0.06 % to 0.01 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Precision Digital Multimeter and DC Voltage Source by comparison method	1000 V to 1500 V	0.01 % to 0.5 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using DC Electronic Load and DC Current Source by comparison method	0.5 A to 1 A	0.35 % to 0.15 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using DC Electronic Load and DC Current Source by comparison method	1 A to 10 A	0.15 % to 0.09 %

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Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-3992
Page No	4 of 10
Validity	20/07/2024 to 19/07/2026
Last Amended on	11/08/2025

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)(±)
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using DC Electronic Load and DC Current Source by comparison method	10 A to 30 A	0.09 % to 0.12 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	2 A to 20 A	0.02 % to 0.03 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by direct method	200 µA to 2 A	0.02 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance 2 Wire	Using Decade Resistance Box by direct method	1 kohm to 10 Mohm	0.12 % to 0.15 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance 2 Wire @ 1000 V	Using Decade Resistance Box by direct method	1 Gohm to 10 Gohm	0.5 % to 1.2 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance 2 Wire @ 1000 V	Using Decade Resistance Box by direct method	10 Mohm to 1 Gohm	0.15 % to 0.5 %

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-3992
Page No	5 of 10
Validity	20/07/2024 to 19/07/2026
Last Amended on	11/08/2025

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)(±)
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2 Wire	Using Multifunction Calibrator by direct method	1 Mohm to 100 Mohm	0.02 % to 1.2 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2 Wire	Using Multifunction Calibrator by direct method	10 ohm to 100 kohm	0.08 % to 0.004 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 2 Wire	Using Multifunction Calibrator by direct method	100 kohm to 1 Mohm	0.004 % to 0.02 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	20 mV to 200 mV	0.02 % to 0.01 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by direct method	200 mV to 1000 V	0.01 %

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3992	**Page No**	6 of 10
Validity	20/07/2024 to 19/07/2026	**Last Amended on**	11/08/2025

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)(±)
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformers Phase Error @ 50 Hz Primary: 10 A to 2000 A / Secondary: 1 A	Using Automatic Capacitance Bridge and Standard CTs by comparison (using ratio measurement) method	10 A to 2000 A	1.24 min
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformers Ratio Error @ 50 Hz Primary: 10 A to 2000 A / Secondary: 1 A	Using Automatic Capacitance Bridge and Standard CTs by comparison (using ratio measurement) method	10 A to 2000 A	0.02 %
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	High Voltage Electronic Dividers Phase Error @ 50 Hz, Primary: 1 kV to 100 kV / Secondary: 100 V	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	1 kV to 100 kV	0.5 min
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	High Voltage Electronic Dividers Ratio Error @ 50 Hz, Primary: 1 kV to 100 kV / Secondary: 100 V	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	1 kV to 100 kV	0.01 %

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3992	**Page No**	7 of 10
Validity	20/07/2024 to 19/07/2026	**Last Amended on**	11/08/2025

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)(±)
30	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by direct method	10 Hz to 10 MHz	0.075 % to 0.0075 %

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMENTS INTERNATIONAL CALIBRATION HOUSE (A DIVISION OF MEASUREMENTS INTERNATIONAL LLP), 305, PLOT NO. 6, CHETAN COMPLEX, LSC, SHRESTHA VIHAR, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3992	**Page No**	8 of 10
Validity	20/07/2024 to 19/07/2026	**Last Amended on**	11/08/2025

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 50 Hz, 1 kV to 100 kV	Using Automatic Capacitance Bridge and HV Standard Capacitor by comparison (using ratio measurement) method	100 pF	0.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 50 Hz, 120 V to 600 V	Using Automatic Capacitance Bridge and Standard Reference Capacitor by comparison (using ratio measurement) method	1000 pF	0.0026 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 50 Hz, upto 100 kV	Using Automatic Capacitance Bridge and HV Standard Capacitor by comparison (using ratio measurement) method	50 pF	0.6 %

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3992	**Page No**	9 of 10
Validity	20/07/2024 to 19/07/2026	**Last Amended on**	11/08/2025

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4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Dissipation Factor (Tan Delta) @ 50 Hz, 120 V to 100 kV	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	0 to 10 %	0.05 %
5	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformers Phase Error @ 50 Hz Primary: 10 A to 2000 A / Secondary: 1 A	Using Automatic Capacitance Bridge and Standard CTs by comparison (using ratio measurement) method	10 A to 2000 A	1.24 min
6	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformers Ratio Error @ 50 Hz Primary: 10 A to 2000 A / Secondary: 1 A	Using Automatic Capacitance Bridge and Standard CTs by comparison (using ratio measurement) method	10 A to 2000 A	0.02 %
7	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	High Voltage Electronic Dividers Phase Error @ 50 Hz, Primary: 1 kV to 100 kV / Secondary: 100 V	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	1 kV to 100 kV	0.5 min

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Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-3992
Page No	10 of 10
Validity	20/07/2024 to 19/07/2026
Last Amended on	11/08/2025

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8	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	High Voltage Electronic Dividers Ratio Error @ 50 Hz, Primary: 1 kV to 100 kV / Secondary: 100 V	Using Automatic Capacitance Bridge, Standard Reference Capacitor and HV Standard Capacitor by comparison (using ratio measurement) method	1 kV to 100 kV	0.01 %

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