



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

YADAV MEASUREMENTS PRIVATE LIMITED

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

C7, SECTOR 3, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3961

Issue Date: 13/06/2024

Valid Until: 12/06/2026

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 this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: YADAV MEASUREMENTS PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YADAV MEASUREMENTS PRIVATE LIMITED, C7, SECTOR 3, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

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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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	10 Wh to 115.2 kWh	0.011 % to 1.1 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Cos 89.4270° - 0° - 270.573)	Using Reference standard and Static Source by Comparison / Direct Method	1 Wh to 144 kWh	0.0058 % to 0.5500 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	0.1 mWh to 14.4 Wh	0.0205 % to 2.0500 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, 10 mA to 10 A, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mWh to 14.4 kWh	0.0048 % to 0.48 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 W to 115.8 kW	2.05 % to 1.1000 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 W to 144 kW	0.0055 % to 0.5500 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mW to 14.4 kW	0.0048 % to 0.4800 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A)	Using Reference Standard and Static Source by Comparison / Direct Method	100 mVAh to 14.4 kVAh	0.0048 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Energy (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA)	Using Reference Standard and Static Source by Comparison / Direct Method	10 mVAh to 14.4 Vah	0.0205 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Energy (40 Hz to 70 Hz, 10V to 480V, >10A to 100A)	Using Reference Standard with Static Source by Comparison / Direct Method	100 VAh to 144 kVAh	0.0055 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Energy (40Hz to 70Hz, 10V to 480V, >100A to 120A)	Using Reference Standard and Static Source by Comparison / Direct Method	1 kVAh to 115.2 kVAh	0.011 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Power (40 Hz to 70 Hz, 10 V to 320 V, >100A to 120 A)	Using Reference standard and Static Source by Comparison / Direct Method	1 kVA to 115.2 kVA	0.0110 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Power (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A)	Using Reference Standard and Static Source by Comparison / Direct Method	100 VA to 144 kVA	0.0055 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Power (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A)	Using Reference Standard and Static Source by Comparison / Direct Method	100 mVA to 14.4 kVA	0.0048 %



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Apparent Power (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA)	Using Reference Standard and Static Source by Comparison / Direct Method	10 mVA to 14.4 VA	0.0205 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Sine 5.7392° - 90° - 174.2608°)	Using Reference standard and Static Source by Comparison / Direct Method	100 Varh to 115.2 kVarh	0.011 % to 0.11 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference standard and Static Source by Comparison / Direct Method	27.778 Varh to 144 kVarh	0.0055 % to 0.0550 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 mVarh to 14.4 kVarh	0.0048 % to 0.0480 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mVarh to 14.4 Var	0.0205 % to 0.205 %



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 320 V, 100 A to 120 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	100 Var to 115.2 kVar	0.011 % to 0.11 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 380 V, >10 A to 100 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 Var to 144 kVar	0.0055 % to 0.055 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 mVar to 14.4 kVar	0.0048 % to 0.048 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mVar to 14.4 Var	0.0205 % to 0.205 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Reference standard and Static Source by Comparison / Direct Method	1 mA to 10 mA	0.0630 % to 0.0254 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Reference standard and Static Source by Comparison / Direct Method	101 A to 120 A	0.013 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Reference standard and Static Source by Comparison / Direct Method	11 mA to 100 A	0.0145 % to 0.0110 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (40Hz to 70Hz)	Using Reference Standard and Static Source by Comparison / Direct Method	10 V to 480 V	0.008 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency (10V to 480V, 1mA to 120A)	Using Reference Standard and Static Source by Comparison / Direct Method	40 Hz to 70 Hz	0.005 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor (50 Hz, 10 mA to 100 A)	Using Reference Standard and Static Source by Comparison / Direct Method	2 nd to 40 th	0.55 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor (50 Hz, 10 V to 240 V)	Using Reference Standard and Static Source by Comparison / Direct Method	2 nd to 40 th	0.55 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (10 V to 480 V, 1 mA to 120 A, 40 Hz to 70 Hz)	Using Reference Standard and Static Source by Comparison / Direct Method	0° to 360°	0.0115°
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (10V to 480V, 1mA to 120A, 40 Hz to 70 Hz)	Using Reference Standard and Static Source by Comparison / Direct Method	0.01 Lag & Lead to 1 PF	0.00015 PF
33	FLUID FLOW-FLOW MEASURING DEVICES	Gas Meter (RPD, Diaphragm)	Using Rotary Positive Displacement Reference Meter by Comparison Method (Quantity by Volume)	0.016 m ³ /hr to 100 m ³ /hr	0.37 %



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34	FLUID FLOW- FLOW MEASURING DEVICES	Gas Meter (RPD, Turbine) - Volume Flow Rate	Using Turbine/Rotary Positive Displacement reference Meter by Comparison Method (Quantity by Volume)	1 m ³ to 1566 m ³	0.31 %



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	10 Wh to 115.2 kWh	0.011 % to 1.1 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Cos 89.4270° - 0° - 270.573)	Using Reference standard and Static Source by Comparison / Direct Method	1 Wh to 144 kWh	0.0058 % to 0.5500 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	0.1 mWh to 14.4 Wh	0.0205 % to 2.0500 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Energy (40 Hz to 70 Hz, 10 V to 480 V, 10 mA to 10 A, Cos 89.4270° - 0° - 270.573)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mWh to 14.4 kWh	0.0048 % to 0.48 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 W to 115.8 kW	2.05 % to 1.1000 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 W to 144 kW	0.0055 % to 0.5500 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Active Power (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A, Cos 89.4270° - 0° - 270.5730°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mW to 14.4 kW	0.0048 % to 0.4800 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 320 V, >100 A to 120 A, Sine 5.7392° - 90° - 174.2608°)	Using Reference standard and Static Source by Comparison / Direct Method	100 Varh to 115.2 kVarh	0.011 % to 0.11 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 480 V, >10 A to 100 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference standard and Static Source by Comparison / Direct Method	27.778 Varh to 144 kVarh	0.0055 % to 0.0550 %



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11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Energy (40 Hz to 70 Hz, 10 V to 480 V, 1 mA to 10 mA, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	1 mVarh to 14.4 Var	0.0205 % to 0.205 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 320 V, 100 A to 120 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	100 Var to 115.2 kVar	0.011 % to 0.11 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 380 V, >10 A to 100 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 Var to 144 kVar	0.0055 % to 0.055 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	1 Phase and 3 Phase AC Reactive Power (40 Hz to 70 Hz, 10 V to 480 V, >10 mA to 10 A, Sin 5.7392° - 90° - 174.2608°)	Using Reference Standard and Static Source by Comparison / Direct Method	10 mVar to 14.4 kVar	0.0048 % to 0.048 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Reference standard and Static Source by Comparison / Direct Method	11 mA to 100 A	0.0145 % to 0.0110 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (10V to 480V, 1mA to 120A, 40 Hz to 70 Hz)	Using Reference Standard and Static Source by Comparison / Direct Method	0.01 Lag & Lead to 1 PF	0.00015 PF

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