

Scope of Accreditation for Calibration

As per ISO/IEC 17025:2017

CAB Name: SKYTECH SARAS CALIBRATION LABS PVT. LTD.

Page No. 1 of 13

Address: 31/A, Street No.11, Molar band, Extension, Badarpur, South
Delhi-110044, Delhi

Certificate No.: C-0022

Issue date : 21.08.2026

Validity : 20.08.2030

Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Remarks/ Method used	Range	CMC	Facility
Discipline: Electro-technical Group: Alternating Current (<1GHz) (Measure Mode)					
1	AC Current (10 Hz to 1 kHz)	30 μ A to 1 mA	Using Reference Multimeter 8 $\frac{1}{2}$ DMM By Direct Method	0.24% to 1.91%	Permanent
2		1 mA to 100 mA		1.91% to 0.18%	Permanent
3		100 mA to 1 A		0.16% to 0.17%	Permanent
4		1 A to 10 A		0.24%	Permanent
5		10 A to 20 A		0.24%.	Permanent
6	AC Current (10 Hz to 1 kHz)	30 μ A to 20mA	Using Multifunction calibrator with 8 $\frac{1}{2}$ Reference multimeter by comparison method	0.36% to 0.05%	Permanent
7		20 mA to 200 mA		0.05%	Permanent
8		200 mA to 2 A		0.05% to 0.14%	Permanent
9		2 A to 20 A		0.18%	Permanent
10	1 Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.01 A to 20 A, 0.5 PF to UPF Lead & Lag)	100 mW to 12kW	Using Power Meter by Direct Method	0.21% to 0.05%	Permanent/ Site
11	1 Phase Active Energy @ 50 Hz (100 V to 600 V, 0.5 A to 20 A, 0.5 PF to UPF Lead & Lag)	1 Wh to 2 kWh	Using Precision Power Analyzer with Reference Source by Direct / Comparison Method	0.05 % to 0.15 %	Permanent/ Site



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12	3 Phase 3 Wire / 4Wire, 1 Phase 2-Wire Active Energy @50Hz (63.5 V to 240 V, 0.01A to 120A, 0.5 PF to UPF Lead & Lag)	26.5 mWh to 86.4 kWh	Using 3 Phase Reference Standard with Source by Direct / Comparison Method	0.05%	Permanent/ Site
13	AC Voltage @ 40 Hz to 1 kHz	1 mV to 200 mV	Using Multifunction calibrator with 8½ Reference multimeter by Direct / Comparison Method	0.52 % to 0.02 %	Permanent
14	AC Voltage @40 Hz to 1 kHz	200 mV to 2 V	Using Multifunction calibrator with 8½ Reference multimeter by Direct / Comparison Method	0.02 % to 0.009 %	Permanent
15		2 V to 1000 V		0.009 % to 0.02 %	Permanent
16	AC Voltage @ 1 kHz to 100 kHz	1 mV to 200 mV	Using Multifunction calibrator with 8½ Reference multimeter by Direct / Comparison Method	0.48 % to 0.046 %	Permanent
17	AC Voltage @ 1 kHz to 100 kHz	200 mV to 2 V	Using Multifunction calibrator with 8½ Reference multimeter by Direct /	0.046 % to 0.014 %	Permanent
18		2 V to 1000 V		0.014 % to 0.026 %	Permanent



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			Comparison Method		
19	AC Voltage @ 100 kHz to 1 MHz	1 mV to 200 mV	Using Multifunction calibrator with 8½ Reference multimeter by Direct / Comparison Method	2.93 % to 0.046 %	Permanent
20		200 mV to 1000 V		0.046 % to 0.25 %	Permanent
21	Capacitance	1 pF to 1 mF	Using LCR Meter by Direct Method	0.12 % to 0.27 %	Permanent/ Site
22	Capacitance	1nF to 100mF	Using Reference Multimeter 8 ½ DMM By Direct Method	0.42 % 0.10 %	Permanent
23	Inductance @1 kHz	100µH to 10 H	Using LCR Meter by Direct Method	0.07 %	Permanent/ Site
24	Phase Angle @ 50 Hz (240V, 10 A)	0° to 360°	Using 3 Phase Reference Standard with Source by Direct / Comparison Method	0.013°	Permanent/ Site
25	Power Factor @ 50 Hz (240V, 10A)	0.01 PF to 1 PF (Lead & Lag)	Using 3 Phase Reference Standard and Power Source by Direct / Comparison Method	0.0032 PF	Permanent/ Site
26	Power Factor @	0.1PF to 1PF (Lead / Lag)	Using Power Meter by Direct Method	0.0008 PF to 0.0004 PF	Permanent/ Site



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	50 Hz (240 V, 2 A)				
27	AC High Voltage (50/60 Hz)	1 kV to 40 kV	Using HV Probe with 4½ DMM, HV Source by Comparison Method	1.8 % to 2 %	Site only
28	AC High Voltage (50/60 Hz)	1 kV to 40 kV	Using High Voltage Probe with DMM by Direct Method	5.82 % to 6.19 %	Site only

Discipline: Electro-technical **Group:** Direct Current (Measure Mode)

29	DC Current	1 µA to 10 µA	Using Reference Multimeter 8 ½ DMM By Direct Method/ Comparison method	0.08 % to 0.01 %	Permanent
30		10 µA to 100µA		0.01 % to 0.005 %	Permanent
31		100 µA to 10 mA		0.005 %	Permanent
32		10 mA to 100 mA		0.005 % to 0.009%	Permanent
33		100 mA to 1 A		0.009 % to 0.03 %	Permanent
34		1 A to 10 A		0.03 % to 0.04 %	Permanent
35		10 A to 20 A		0.04 % to 0.09 %	Permanent
36	DC Current	20 A to 100 A	Using 8½ Digit Reference Multimeter & Shunt by Direct Method	0.09%	Permanent



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Remarks/ Method used	Range	CMC	Facility
37	DC Power (1 V to 1000 V & 10 mA to 20 A)	10 mW to 20 kW	Using 8½ Digit Reference Multimeter and AC Measurement Standard by VI Method	0.01 % to 0.05 %	Permanent
38	DC Power (10 V to 1000 V), (0.1 A to 20 A)	1 W to 20 kW	Using Power Meter by Direct Method	0.29% to 0.25%	Permanent/ Site
39	DC Power (10 V to 1000 V & 0.01 A to 1 A)	100 mW to 1 W	Using Power Meter by Direct Method	8.8 % to 0.18 %	Permanent/ Site
40	DC Resistance	1 ohm to 100G-ohm (Up-to 1000 V)	Using 8½ Digit Reference Multimeter & Calibrator V / I Method	0.013 % to 4.7%	Permanent
41	DC Resistance (4 Wire)	1 m-ohm to 1ohm	Using 8½ Digit Reference Multimeter by Direct Method	0.47 % to 0.058%	Permanent
42		1 ohm to 1 k-ohm		0.058 % to 0.013 %	Permanent
43		1k-ohm to 100 k-ohm		0.0013 % to 0.0017%	Permanent
44	DC Resistance (2 Wire)	100k-ohm to 100 M-ohm	Using 8½ Digit Reference Multimeter by Direct Method	0.017 % to 0.026 %	Permanent
45		100 M-ohm to 10 G-ohm		0.026 % to 0.17%	Permanent
46		10 G-ohm to 20 G-ohm		0.17 % to 0.46%	Permanent



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Remarks/ Method used	Range	CMC	Facility
47	DC Voltage	0.1 mV to 1.0 mV	Using Reference Multimeter 8 ½ DMM By Direct Method / Comparison Method	1.5 % to 0.15 %	Permanent
48		1 mV to 100 mV		0.15 % to 0.009%	Permanent
49		100 mV to 1 V		0.009 % to 0.004 %	Permanent
50		1 V to 100 V		0.004 % to 0.006 %	Permanent
51		100 V to 1000 V		0.006 %	Permanent
52	DC High Voltage	1 kV to 40 kV	Using HV Probe with 4½ DMM, HV Source by Comparison Method	1.8 % to 2 %	Site
53	DC High Voltage	1 kV to 40 kV	Using High Voltage Probe with DMM by Direct Method	1.8 % to 2 %	Site
Discipline: Electro-technical Group: Alternating Current (<1GHz) (Source Mode)					
54	AC Current (40 Hz to 1 kHz)	30 µA to 100 µA	Using Multi-Function Calibrator by Direct Method	0.5% to 0.14%	Permanent/ Site
55		100 µA to 200mA		0.14% to 0.05%	Permanent/ Site
56		200 mA to 2 A		0.05% to 1.7%	Permanent/ Site
57		2 A to 20 A		0.5% to 0.17%	Permanent/ Site
58	AC Current (50 Hz)	20 A to 6000 A	Using Multi-Function Calibrator & Current Coil by	0.15% to 1.32%	Permanent/ Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Remarks/ Method used	Range	CMC	Facility
			Direct Method		
59	AC Current (1 kHz to 10 kHz)	1 mA to 200 mA	Using Multi-Function Calibrator by Direct Method	0.61% to 0.29%	Permanent/ Site
60		200 mA to 2 A		0.29% to 0.41%	Permanent/ Site
61		2 A to 20 A		0.41% to 0.28%	Permanent/ Site
62	AC Power 1 Phase @ 50 Hz	100 mW to 12 kW	Using Multifunction calibrator by Direct Method	0.12% to 0.57%	Permanent/ Site
63	(10 V to 600 V, 0.01 A to 20 A, UPF to 0.2 PF Lead & Lag)	1 W to 12 kW		0.1% to 0.40%	Permanent/ Site
64	AC Resistance @ 1 kHz (4 Wire)	1 ohm -10 k ohm	Using Standard Resistance Box by Direct Method	0.07 %	Permanent/ Site
65	Power Factor @ 50 Hz (230 V, 2 A)	0.1 PF to 1 PF (Lead & Lag)	Using Multi-Function Calibrator by Direct Method	0.0012 PF to 0.0007 PF	Permanent/ Site
66	ODD Harmonics distortion (Current) Up-to 39th order	100 mA to 6 A	Using Multi-Product Calibrator by Direct Method	1.41 % to 0.8 %	Permanent/ Site
67	ODD Harmonics distortion (Voltage) Up-to 39th order	100 mV to 60 V	Using Multi-Product Calibrator by Direct Method	0.86 % to 1.02%	Permanent/ Site
68	Oscilloscope / CRO (Vertical Deflection / AC Voltage Square Wave	10 mV to 100 V	Using Multi-Product Calibrator by	0.59 % to 0.12%	Permanent/ Site



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	@ 1 kHz)		Direct Method		
69	Oscilloscope / CRO (Vertical Deflection / DC Voltage)	10 mV to 30 V	Using Multi-Product Calibrator by Direct Method	0.52 % to 0.06%	Permanent/ Site
70	Oscilloscope / CRO (Bandwidth 50 kHz to 1000 MHz)	10 mV to 3 V	Using Multi-Product Calibrator by Direct Method	2.4 % to 9.9 %	Permanent/ Site
71	Oscilloscope / CRO (Bandwidth 50kHz to 600 MHz)	10 mV to 5 V	Using Multi-Product Calibrator by Direct Method	2.4 % to 7.8 %	Permanent/ Site
72	Oscilloscope/CRO (Horizontal Deflection/Time Period)	2 ns to 5 s	Using Multi-Product Calibrator by Direct Method	0.30 % to 0.58%	Permanent/ Site
73	Oscilloscope Bandwidth	50 kHz to 600 MHz	Using Multi-Product Calibrator by Direct Method	4.15 %	Permanent/ Site
74	AC Voltage @ 40 Hz to 1 kHz	1 mV to 200 mV	Using Multi-Product Calibrator by Direct Method	1.26% to 0.12%	Permanent/ Site
75		200 mV to 1000 V		0.12%	Permanent/ Site
76	AC Voltage @ 50 kHz to 1GHz	1 mV to 1000 V	Using Multi-Product Calibrator by Direct Method	1.28 % to 2.4 %	Permanent/ Site
77	AC Voltage @ 1 kHz to 100 kHz	1 mV to 200 mV	Using Multi-Product Calibrator by Direct Method	1.26 % to 0.12%	Permanent/ Site
78		200 mV to 1000 V		0.12% to 0.10 %	Permanent/ Site



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79	AC Voltage @	1 mV to 200 mV	Using Multi-Product Calibrator by Direct Method	1.26% to 0.15 %	Permanent/ Site
80	100 kHz to 1 MHz	200 mV to 1000 V		0.15 % to 0.1 %	Permanent/ Site
81	Capacitance	0.001 nF to 10 μ F	Using Standard Capacitance Box by Direct Method	0.14 %	Permanent/ Site
Discipline: Electro-technical Group: Direct Current (Source Mode)					
82	DC Power (10 V & 0.01 A to 0.1 A)	100 mW to 1 W	Using Multi-Product Calibrator by Direct Method	0.08 % to 0.03 %	Permanent/ Site
83	DC Power (10V to 1000V & 0.1A to 20A)	1 W to 20 kW	Using Multi-Product Calibrator by Direct Method	0.03 % to 0.09 %	Permanent/ Site
84	DC Resistance (4 Wire)	100 m-ohm to 1ohm	Using Multi-Product Calibrator by Direct Method	1.2 % to 0.12 %	Permanent/ Site
85		1 ohm to 100 ohm		0.013 % to 0.005 %	Permanent/ Site
86		100 ohms to 100 k-ohm		0.005 % to 0.008 %	Permanent/ Site
87	DC Resistance (2 Wire)	100 k-ohm to 100 M-ohm	Using Multi-Product Calibrator by Direct Method	0.008 % to 0.055 %	Permanent/ Site
87		100 M-ohm to 1	Method	0.055 % to 1.5 %	Permanent/ Site



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Sr. No.	Parameter/Measurand quantity, Instrument or gauge	Remarks/ Method used	Range	CMC	Facility
		G-ohm			
88	DC Resistance (4 Wire)	1 m-ohm	Using Standard	0.065 %	Permanent/ Site
89		10 m-ohm	Resistance Box by	0.065 %	Permanent/ Site
90		100 m-ohm	Direct Method	0.065 %	Permanent/ Site
91	DC Resistance (2 Wire)	1 G-ohm	Using Standard	0.30 %	Permanent/ Site
92		10 G-ohm	Resistance Box by	0.35 %	Permanent/ Site
93		20 G-ohm	Direct Method	0.39 %	Permanent/ Site
94	DC Current	1 μ A to 200 μ A	Using multi-product	0.3 % to 0.042%	Permanent/ Site
95		200 μ A to 2 A	Calibrator by Direct	0.042% to 0.079%	Permanent/ Site
96		2 A to 20 A	Method	0.079%	Permanent/ Site
97	DC Current	20 A to 1000 A	Using multi-product Calibrator & Current Coil by Direct Method	0.14 %	Permanent/ Site
98	DC Voltage	1 mV to 100 mV	Using multi-product	0.36% to 0.015%	Permanent/ Site
99		100 mV to 10 V	Calibrator by Direct	0.015% to 0.011%	Permanent/ Site



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100		10 V to 1000 V	Method	0.011%	Permanent/ Site
101	Insulation Resistance	100 K-ohm (500V)	Using Megaohm Box by Direct Method	0.59 %	Permanent/ Site
102		1 M-ohm (1kV)		1.2 %	Permanent/ Site
103		10 M-ohm (2kV)		1.2 %	Permanent/ Site
104	B-Type Thermocouple	600 °C to 1800 °C	Using Reference Multimeter 8 ½ DMM By Direct Method	1.08 °C	Permanent/ Site
105	E-Type Thermocouple	(-)250 °C to 1000 °C		0.88 °C	Permanent/ Site
106	J-Type Thermocouple	(-)200 °C to 1200 °C		0.82 °C	Permanent/ Site
107	K-Type Thermocouple	(-)200 °C to 1300 °C		0.71 °C	Permanent/ Site
108	N-Type Thermocouple	(-)200 °C to 1300 °C		0.66 °C	Permanent/ Site
109	R-Type Thermocouple	0 °C to 1750 °C		0.46 °C	Permanent/ Site
110	S-Type Thermocouple	0 °C to 1750 °C		0.90 °C	Permanent/ Site
111	T-Type Thermocouple	(-)200 °C to 400 °C		0.46 °C	Permanent/ Site
112	RTD (Pt 100)	(-)200 °C to 800 °C		0.05 °C	Permanent/ Site
113	B-Type Thermocouple	600 °C to 1800 °C	Using Multi-Product Calibrator by Direct Method	1.15 °C	Permanent/ Site
114	E-Type Thermocouple	(-)250 °C to 1000 °C		0.93 °C	Permanent/ Site



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115	J-Type Thermocouple	(-)200 °C to 1200 °C		0.87 °C	Permanent/ Site
116	K-Type Thermocouple	(-)200 °C to 1300 °C		0.81 °C	Permanent/ Site
117	N-Type Thermocouple	(-)200 °C to 1300 °C		0.67 °C	Permanent/ Site
118	R-Type Thermocouple	0 °C to 1750 °C		0.66 °C	Permanent/ Site
119	S-Type Thermocouple	0 °C to 1750 °C		0.70 °C	Permanent/ Site
120	T-Type Thermocouple	(-)200 °C to 400 °C		0.66 °C	Permanent/ Site
121	RTD (Pt 100)	(-)200 °C to 800 °C		0.26 °C	Permanent/ Site
122	Time	0.1 s to 86400 s	Using Timer Calibrator by Comparison Method	0.00004 s to 10.42s	Permanent/ Site
123	Frequency	1 Hz to 1000 MHz	Using Multi-Product Calibrator by Direct Method	0.0009 % to 0.0003 %	Permanent/ Site
124	Impulse / Surge (Peak Voltage)	0.5 kV to 20 kV	Using HV Probe with Oscilloscope by Direct Method	2.87 % to 3.94 %	Site
125	Impulse / Surge (Amplitude)	0.5 kV to 20 kV ±10%	Using HV Probe with Oscilloscope by Direct Method	2.87 % to 3.94 %	Site
126	Impulse / Surge (Pulse Width)	0.5 kV to 20 kV (50µs ±20%)	Using HV Probe with Oscilloscope by Direct Method	2.87 % to 3.94 %	Site



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	(0.5 kV to 20 kV)				
127	Impulse / Surge (Rise Time) (0.5 kV to 20 kV)	0.5 kV to 20 kV (1.2 μ s $\pm$ 30%)	Using HV Probe with Oscilloscope by Direct Method	2.87 % to 3.94%	Site

Note: CMC in ($\pm$) at 95% confidence level



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