

Schedule

ABLE Cal Pte Ltd
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Certificate No. : LA-2022-0799-C
Issue No. : 5
Date : 20 February 2026
Expiry of Certificate : 19 February 2030
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FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
A ELECTRICAL		
A1 Calibration of Resistance Measuring Instruments (2 wire & 4 Wire)	In House calibration Procedure ABLE-E001 Rev.:1	(Lab & Site)
0-10.99 Ω		0.0081 Ω
11 Ω -32.999 Ω		0.11 %
33 Ω -109.999 Ω		0.037 %
110 Ω -329.999 Ω		0.016 %
330 Ω -1.09999 k Ω		0.0070 %
1.1 k Ω -3.29999 k Ω		0.016 %
3.3 k Ω -10.9999 k Ω		0.0046 %
11 k Ω -32.9999 k Ω		0.0092 %
33 k Ω -109.999 k Ω		0.0046 %
110 k Ω -329.999 k Ω		0.010 %
330k Ω -1.09999 M Ω		0.0050 %
1.1 M Ω -3.29999 M Ω		0.015 %
3.3 M Ω -10.9999 M Ω		0.016 %
11 M Ω -32.9999 M Ω		0.037 %
33 M Ω -109.999 M Ω		0.068 %
110 M Ω -330 M Ω		0.31 %
330 M Ω -1100 M Ω		1.3 %

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A2	Calibration of milli Ohm meter Insulation tester / Micro Ohm Meter/ Earth tester 0.01 Ω to 0.1 Ω 0.1 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1000 Ω 1k Ω to 10 k Ω 10k Ω to 100 k Ω 100 k Ω to 1000 k Ω 1M Ω to 10 M Ω 10M Ω to 100 M Ω 100 M Ω to 1000 M Ω 1 G Ω to 10 G Ω 10 G Ω to 100 G Ω	In House calibration Procedure ABLE-E002 Rev.:2	(Lab & Site) 0.0012 Ω 0.0012 Ω 0.11 % 0.014 % 0.0038 % 0.11 % 0.014 % 0.012 % 0.012 % 0.036 % 0.12 % 0.58 % 0.89 %
A3	Calibration of DC Voltage Measuring Instruments 0 mV to 32.999 mV 33 mV to 329.999 mV 0.33 to 3.29999 V 3.3 to 32.9999 V 33 V to 329.999 V 330 V to 1020.000 V	In House calibration Procedure ABLE-E003 Rev.:1	(Lab & Site) 0.0016 mV 0.0047 % 0.0015 % 0.0014 % 0.0018 % 0.0018 %
A4	Calibration of AC Voltage Measuring Instruments 1.0 mV to 32.999 mV	In House calibration Procedure ABLE-E004 Rev.:1 10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz	(Lab & Site) 0.53 % 0.48 % 0.49 % 0.55 % 1.2 % 4.5 %

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33 mV to 329.999 mV	10 Hz to 45 kHz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.043 % 0.031 % 0.032 % 0.047 % 0.14 %
0.330 V to 3.2999 V	10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 500 kHz	0.037 % 0.028 % 0.031 % 0.036 % 0.084 % 0.33 %
3.3 V to 32.9999 V	10 Hz to 45 Hz 45 Hz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.039 % 0.027 % 0.033 % 0.042 % 0.11 %
33 V to 329.999 V	45 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.038 % 0.043 % 0.045 % 0.045 % 0.27 %
330 V to 1020 V	45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.029 % 0.022 % 0.026 %
A5 Calibration of DC Current Measuring Instruments	In House calibration Procedure ABLE-E005 Rev.:1	(Lab & Site)
0 to 329.999 µA		0.054 µA
330 µA to 3.29999 mA		0.027 %
3.3 mA to 32.9999 mA		0.016 %
33 mA to 329.999 mA		0.022 %
0.330 A to 1.0999 A		0.027 %
1.1 A to 2.99999 A		0.032 %
2.3 A to 10.9999 A		0.079 %
11 A to 20.2 A		0.079 %
20.2 A to 30 A		0.071 %

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A6	Calibration of DC Current Clamp Measuring Instruments	In House calibration Procedure ABLE-E006 Rev.:2	(Lab & Site)
	0.001 mA to 20 mA		0.11 mA
	20.1 mA to 100 mA		0.11 mA
	0.1 A to 4 A		6.1 %
	4.1 A to 40 A		2.7 %
	40.1 A to 60 A		0.83 %
	60.1 A to 200 A		1.0 %
	200.1 A to 300 A		0.83 %
	300.1 A to 1000 A		0.79 %
	1000.1 A to 1500 A		0.59 %
A7	Calibration of AC Current Measuring instruments	In House calibration Procedure ABLE-E007 Rev.:1	(Lab & Site)
	29 µA to 329.99 µA	10 Hz to 20 Hz	0.43 %
		20 Hz to 45 Hz	0.39 %
		45 Hz to 1 kHz	0.37 %
		1 kHz to 5 kHz	0.64 %
		5 kHz to 10 kHz	1.2 %
		10 kHz to 30 kHz	2.3 %
	0.330 mA to 3.2999 mA	10 Hz to 20 Hz	0.19 %
		20 Hz to 45 Hz	0.14 %
		45 Hz to 1 kHz	0.12 %
		1 kHz to 5 kHz	0.21 %
		5 kHz to 10 kHz	0.46 %
		10 kHz to 30 kHz	0.92 %
	3.3 mA to 32.999 mA	10 Hz to 20 Hz	0.19 %
		20 Hz to 45 Hz	0.12 %
		45 Hz to 1 kHz	0.08 %
		1 kHz to 5 kHz	0.11 %
		5 kHz to 10 kHz	0.23 %
		10 kHz to 30 kHz	0.49 %
	33 mA to 329.99 mA	10 Hz to 20 Hz	0.19 %
		20 Hz to 45 Hz	0.12 %
		45 Hz to 1 kHz	0.078 %
		1 kHz to 5 kHz	0.20 %
		5 kHz to 10 kHz	0.39 %
		10 kHz to 30 kHz	0.78 %

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0.330 A to 1.09999 A	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10 kHz	0.16 % 0.064 % 0.70 % 3.1 %
1.1 A to 2.99999 A	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 10 kHz to 30 kHz	0.15 % 0.057 % 0.14 % 2.3 %
3 A to 10.9999 A	45 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 5 kHz	0.10 % 0.13 % 2.4 %
11 A to 30 A	30 Hz to 44 Hz 45 Hz to 75 Hz 75 Hz to 100 Hz	0.31 % 0.19 % 0.53 %
A8 Calibration of AC Current Clamp Measuring Instruments	In House calibration Procedure ABLE-E008 Rev.:2	(Lab & Site)
1 mA to 10 mA 10 mA to 40 mA 40.1 mA to 400 mA 0.4 A to 4 A 4.1 A to 40 A 40.1 A to 60 A 60.1 A to 200 A 200.1 A to 300 A 300.1 A to 1000 A 1000.1 A to 1500 A	30 to 60 Hz	0.94 % 1.4 % 0.20 % 6.4 % 2.7 % 0.78 % 0.93 % 0.84 % 0.80 % 0.60 %
A9 Calibration of Frequency Measuring Instruments	In House calibration Procedure ABLE-E009 Rev.:1	(Lab & Site)
0.01 Hz to 119.99 Hz 120.0 Hz to 1.199 kHz 1.2 kHz to 11.999 kHz 12.00 kHz to 119.99 kHz 120.0 kHz to 1199.9 kHz 1.200 MHz to 2.000 MHz		0.00071 % 0.00021 % 0.0034 % 0.0004 % 0.0035 % 0.00021 %

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A10 Calibration of Capacitance Measuring Instruments 220 pF to 399.9 pF 0.4 nF to 1.0999 nF 1.1 nF to 3.2999 nF 3.3 nF to 10.999 nF 11 nF to 32.999 nF 33 nF to 109.99 nF 110 nF to 329.99 nF 0.33 µF to 1.0999 µF 1.1µF to 3.2999 µF 3.3 µF to 10.999 µF 11µF to 32.999 µF 33 µF to 109.999 µF 110 µF to 329.99 µf 0.33 mF to 1.09999 mF 11 mF to 3.29999 mF 3.3 mF to 10.9999 mF 11 mF to 32.9999 mF 33 mF to 110 mF	In House calibration Procedure ABLE-E010 Rev.:1	(Lab & Site) 4.3 % 2.0 % 1.1 % 0.46 % 0.91 % 0.45 % 0.42 % 0.53 % 0.43 % 0.45 % 0.54 % 0.65 % 0.58 % 0.66 % 0.57 % 0.59 % 0.80 % 1.1 %
A11 Calibration of Inductance Measuring Instruments 0.1 mH to 1 mH 1 mH to 10 mH 10 mH to 100 mH 100 mH to 1000 mH	In House calibration Procedure ABLE-E011 Rev.:1 1 kHz	(Lab & Site) 9.1% 3.7% 1.2% 2.7%
A12 Calibration of Resistance Sourcing instruments 0.01 Ω to 0.1 Ω 0.1 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1000 Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1000 k Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1000 M Ω	In House calibration Procedure ABLE-E012 Rev.:1	(Lab & Site) 0.84 % 0.085 % 0.0089 % 0.0093 % 0.013 % 0.0044 % 0.012 % 0.0053 % 0.0064 % 0.51 % 2.7 %

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A13	Calibration of DC Voltage Sourcing Instruments	In House calibration Procedure ABLE-E013 Rev.:1	(Lab & Site)
			0.0021 %
			0.0024 %
			0.0011 %
			0.0036 %
			0.0013 %
A14	Calibration of AC Voltage Sourcing Instruments	In House calibration Procedure ABLE-E014 Rev.:1	(Lab & Site)
			1 mV to 10 mV
			10 Hz to 40 Hz
			40 Hz to 1kHz
			1 kHz to 20 kHz
			20 kHz to 50 kHz
			50 kHz to 100 kHz
			100 kHz to 300 kHz
			0.42 %
			0.24 %
			0.25 %
			0.31%
			0.81 %
			4.90 %
			10.1 mV to 100 mV
			10 Hz to 40 Hz
			40 Hz to 1 kHz
			1 kHz to 20 kHz
			20 kHz to 50 kHz
			50 kHz to 100 kHz
			100 kHz to 300 kHz
			0.065 %
			0.048 %
			0.058 %
			0.068 %
			0.17 %
			0.5 %
			100.1 mV to 1000 mV
			10 Hz to 40 Hz
			40 Hz to 1 kHz
			1 kHz to 20 kHz
			20 kHz to 50 kHz
			50 kHz to 100 kHz
			100 kHz to 300 kHz
			0.057 %
			0.036 %
			0.043%
			0.066 %
			0.13 %
			0.48 %
			1 V to 10 V
			10 Hz to 40 Hz
			40 Hz to 1 kHz
			1 kHz to 20 kHz
			20 kHz to 50 kHz
			50 kHz to 100 kHz
			100 kHz to 300 kHz
			0.055 %
			0.037 %
			0.041 %
			0.064 %
			0.12 %
			0.47 %

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10.1 V to 100 V	10 Hz to 40 Hz 40 Hz to 1 kHz 1 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz	0.073 % 0.051 % 0.051 % 0.079 % 0.17 %
100.1 V to 700 V	10 Hz to 40 Hz 40 Hz to 1 kHz	0.081 % 0.066 %
700.1 V to 1000 V	50 Hz	0.11 %
A15 Calibration of DC Current Sourcing Instruments	In House calibration Procedure ABLE-E015 Rev.:1	(Lab & Site)
10 µA to 100 µA		0.083 %
100.1 µA to 1000 µA		0.019 %
1.1 mA to 10 mA		0.016 %
10.1 mA to 100 mA		0.033 %
0.101 A to 1.0 A		0.12 %
1.01 A to 3 A		0.19 %
3.01 A to 10 A		0.20 %
10.01 A to 100 A		0.40 %
A16 Calibration of AC Current Sourcing Instruments	In House calibration Procedure ABLE-E016 Rev.:1	(Lab & Site)
30 µA to 100 µA	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	0.42 % 0.30 % 0.42 % 1.3 µA
100.1 µA to 1000 µA	10 Hz to 1 kHz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	0.64 % 0.42 % 0.39 % 0.42 %
1.1 mA to 10 mA	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	0.84 % 0.38 % 0.36 % 0.38 %

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10.1 mA to 100 mA	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	0.63 % 0.41 % 0.39 % 0.41 %
100.1 mA to 400 mA	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	1.40 % 0.59 % 3.50 % 4.00 %
400.1 mA to 1000 mA	10 Hz to 45 Hz 45 Hz to 1 kHz 1 kHz to 5 kHz 5 kHz to 10kHz	0.24 % 0.24 % 0.26 % 0.41 %
1.01 A to 3 A	45 Hz to 1 kHz 1 kHz to 5 kHz	0.38 % 0.39 %
3.01 A to 10 A	45 Hz to 1 kHz	0.43 %
A17 Calibration of Frequency Sourcing Instruments	In House calibration Procedure ABLE-E017 Rev.:1	(Lab & Site)
1 Hz to 100 Hz		0.058 %
100.1 Hz to 1000 Hz		0.012 %
1 kHz to 1000 kHz		0.012 %
1 MHz to 10 MHz		0.012 %

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A18	Calibration of DC Power Measuring Instruments 0.01 W to 1 W 1 W to 5 W 5 W to 10 W 10 W to 100 W 100 W to 500 W 500 W to 900 W 900 W to 3 kW 3 kW to 6.3 kW 6.3 kW to 15 kW 15 kW to 20 kW 20 kW to 30 kW	In House calibration Procedure ABLE-E018 Rev.:1	(Lab & Site) 0.038 % 0.046 % 0.036 % 0.051 % 0.054 % 0.049 % 0.056 % 0.051 % 0.049 % 0.047 % 0.068 %
A19	Calibration of AC Power Measuring Instruments 0.01 W to 1.2 kW 1.2 kW to 6 kW 6 kW to 30 kW 30 kW to 300 kW 300 kW to 900 kW	In House calibration Procedure ABLE-E019 Rev.:1 45 Hz to 60 Hz	(Lab & Site) 4.5 % 2.0 % 1.5 % 0.66 % 0.57 %
A20	Calibration of Digital Timer, Analog Timer, Stop Watch 1 to 60 s 61 to 600 s 601 to 1200 s 1201 to 1800 s 1801 to 3600 s 3601 s to 7200 s 7201 s to 14400 s	In House calibration Procedure ABLE-E020 Rev.:1	(Lab & Site) 3.2 % 0.020 % 0.0073 % 0.0036 % 0.0039 % 0.0019 % 0.0013 %
A21	Calibration of Oscilloscope Measuring Instruments Vertical Deflection @ DC Signal ± 1 mV to ± 24.999 mV ± 25 mV to ± 109.99 mV ± 110 mV to ± 2.1999 V 2.2 V to ± 6 V	In House calibration Procedure ABLE-E021 Rev.:1 50 Ω Input	(Lab & Site) 20.0 % 8.0 % 6.4 % 0.47 %

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± 1 mVp-p to ± 24.999 mVp-p ± 25 mVp-p to ± 109.99 mVp-p ± 110 mVp-p to ± 2.1999 Vp-p ± 2.2 Vp-p to ± 10.999 Vp-p ± 11 Vp-p to ± 130 Vp-p Vertical Deflection @ AC Signal	1 M Ω Input	3.7 % 0.48 % 0.47 % 0.46 % 0.46 %
± 1 mVp-p to ± 24.999 mVp-p ± 25 mVp-p to ± 109.99 mVp-p ± 110 mVp-p to ± 2.1999 Vp-p 2.2 V to 6 V	50 Ω Input	3.1 % 1.1 % 5.2 % 0.47 %
± 1.8 mVp-p to ± 20 mVp-p ± 20 mVp-p to ± 100 Vp-p ± 100 mVp-p to ± 1 Vp-p ± 1 Vp-p to ± 10 Vp-p ± 10 Vp-p to ± 100 Vp-p Horizontal Deflection	1 M Ω Input	3.2 % 0.48 % 0.47 % 0.46 % 0.46 %
2 ns to 5 ns 5 ns to 10 ns 10 ns to 20 ns 20 ns to 50 ns 50 ns to 50 μ s 50 μ s to 20 ms 20 ms to 50 ms 50 ms to 5 s		0.063 % 0.081 % 0.073 % 0.061 % 0.095 % 0.073 % 0.061 % 0.13 %
Bandwidth 50 kHz to 100 MHz 100 MHz to 300 MHz 300 MHz to 600 MHz 600 MHz to 1100 MHz		0.26 dB 0.30 dB 0.48 dB 0.57 dB

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B TEMPERATURE B1a (i) RTD Sensor with Indicator (ii) PRT Sensor with Indicator (Lab) -80 °C to -40 °C -40 °C to 0 °C 0 °C to 70 °C 70 °C to 140 °C 140 °C to 210 °C 210 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C (Site) -20 °C to 60 °C 60 °C to 140 °C 140 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C	In House calibration Procedure ABLE-T001(A) Rev.:0	0.038 °C 0.038 °C 0.038 °C 0.041 °C 0.042 °C 0.043 °C 0.51 °C 0.63 °C 0.094 °C 0.17 °C 0.30 °C 0.53 °C 0.66 °C
B1b Thermocouple wire with indicator (Lab) -80 °C to -40 °C -40 °C to 0 °C 0 °C to 70 °C 70 °C to 140 °C 140 °C to 210 °C 210 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 600 °C to 1000 °C 1000 °C to 1100 °C	In House calibration Procedure ABLE-T001(B) Rev.:0	0.13 °C 0.16 °C 0.19 °C 0.22 °C 0.22 °C 0.31 °C 0.70 °C 0.98 °C 7.5 °C 7.7 °C

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(Site) -20 °C to 60 °C 60 °C to 140 °C 140 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 600 °C to 1000 °C 1000 °C to 1100 °C B1c Temperature Indicator with Sensor	In House calibration Procedure ABLE-T001(C) Rev.:0	0.63 °C 0.69 °C 0.77 °C 0.99 °C 1.2 °C 8.2 °C 8.8 °C
(Lab) -80 °C to 0 °C 0 °C to 70 °C 70 °C to 140 °C 140 °C to 210 °C 210 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 450 °C to 800 °C		0.60 °C 0.60 °C 1.2 °C 1.2 °C 3.1 °C 3.2 °C 6.0 °C 8.5 °C
(Site) -20 °C to 60 °C 60 °C to 140 °C 140 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 600 °C to 800 °C		0.85 °C 1.4 °C 3.2 °C 3.3 °C 6.1 °C 9.0 °C

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B2 i) RTD Sensor Without Indicator (ii) PRT Sensor Without Indicator (Lab) -80 °C to -40 °C -40 °C to 0 °C 0 °C to 70 °C 70 °C to 140 °C 140 °C to 210 °C 210 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C (Site) -20 °C to 60 °C 60 °C to 140 °C 140 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C	In House calibration Procedure ABLE-T002 Rev.:0	0.039 °C 0.039 °C 0.043 °C 0.044 °C 0.046 °C 0.049 °C 0.50 °C 0.63 °C 0.71 °C 0.74 °C 0.75 °C 0.87 °C 0.96 °C
B3 Thermocouple Wire without indicator (Lab) -80 °C to -40 °C -40 °C to 0 °C 0 °C to 70 °C 70 °C to 140 °C 140 °C to 210 °C 210 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1100 °C (Site) -20 °C to 60 °C 60 °C to 140 °C 140 °C to 280 °C 280 °C to 450 °C 450 °C to 600 °C 600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1100 °C	In House calibration Procedure ABLE-T003 Rev.:1	0.15 °C 0.17 °C 0.20 °C 0.22 °C 0.23 °C 0.31 °C 0.70 °C 0.98 °C 6.3 °C 7.8 °C 8.5 °C 0.64 °C 0.70 °C 0.81 °C 1.1 °C 1.3 °C 6.7 °C 8.2 °C 8.8 °C

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B4 Thermocouple Indicator Type : K -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1370 °C Type : N -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C Type : J -210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C Type : T -250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C Type : R 0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1760 ° Type : S 0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1000 °C to 1760 °C	In House calibration Procedure ABLE-T004 Rev.:0	(Lab / Site) 0.50 °C / 0.75 °C 0.43 °C / 0.68 °C 0.41 °C / 0.60 °C 0.46 °C / 0.64 °C 0.49 °C / 0.74 °C 0.74 °C / 0.92 °C 0.59 °C / 0.83 °C 0.59 °C / 0.80 °C 0.59 °C / 0.80 °C 0.63 °C / 0.66 °C 0.52 °C / 0.71 °C 0.45 °C / 0.66 °C 0.44 °C / 0.59 °C 0.46 °C / 0.63 °C 0.49 °C / 0.69 °C 0.88 °C / 1.47 °C 0.43 °C / 0.72 °C 0.43 °C / 0.63 °C 0.43 °C / 0.63 °C 0.86 °C / 1.7 °C 0.77 °C / 1.3 °C 0.77 °C / 1.3 °C 0.83 °C / 1.3 °C 1.1 °C / 1.4 °C 0.77 °C / 1.4 °C 0.77 °C / 1.4 °C 0.83 °C / 1.6 °C

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Type : E -250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C		0.84 °C / 0.87 °C 0.44 °C / 0.57 °C 0.45 °C / 0.57 °C 0.45 °C / 0.49 °C 0.47 °C / 0.49 °C
B5 Thermocouple Simulator	In House calibration Procedure ABLE-T005 Rev.:0	(Lab / Site)
Type : K -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1370 °C		0.45 °C / 0.87 °C 0.37 °C / 0.47 °C 0.35 °C / 0.48 °C 0.40 °C / 0.66 °C 0.44 °C / 0.87 °C
Type : N -200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C		0.71 °C / 1.3 °C 0.57 °C / 1.3 °C 0.55 °C / 0.77 °C 0.55 °C / 0.77 °C 0.59 °C / 0.86 °C
Type : J -210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C		0.46 °C / 0.83 °C 0.38 °C / 0.83 °C 0.37 °C / 0.51 °C 0.40 °C / 0.52 °C 0.43 °C / 0.72 °C
Type : T -250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C		0.85 °C / 2.2 °C 0.38 °C / 0.83 °C 0.37 °C / 0.83 °C 0.38 °C / 0.52 °C
Type : R 0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1760 °C		1.1 °C / 1.9 °C 0.73 °C / 1.3 °C 0.73 °C / 1.3 °C 0.80 °C / 1.3 °C

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
Type : S 0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1400 °C to 1760 °C Type : E -250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C		1.1 °C / 2.9 °C 0.73 °C / 1.3 °C 0.73 °C / 1.5 °C 0.80 °C / 1.5 °C
B6 (i) RTD Indicator (ii) PRT Indicator TYPE : PT 385 (100 Ω) -200 °C to 100 °C 100 °C to 200 °C 200 °C to 400 °C 400 °C to 800 °C	In House calibration Procedure ABLE-T006 Rev.:1	(Lab / Site) 0.056 °C / 0.11 °C 0.072 °C / 0.13 °C 0.080 °C / 0.17 °C 0.18 °C / 0.25 °C
B7 RTD Sourcing instruments without Sensor TYPE : PT 385 (100 Ω) -200 °C to 100 °C 100 °C to 200 °C 200 °C to 400 °C 400 °C to 800 °	In House calibration Procedure ABLE-T007 Rev.:0	(Lab / Site) 0.042 °C / 0.14 °C 0.041 °C / 0.16 °C 0.041 °C / 0.19 °C 0.041 °C / 0.27 °C
B8 Dry Block Calibrator -20 °C to 140 °C 140 °C to 450 °C 450 °C to 600 °C	In House calibration Procedure ABLE-T008 Rev.:0	(Lab & Site) 0.098 °C 0.17 °C 0.2 °C

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
B9 Non-Contact Temperature Infrared thermometer / Thermal imager ϵ -0.90 to 1.00 Spectral Band 8 to 14 μ m 35 °C to 100 °C 100 °C to 200 °C 200 °C to 350 °C 350 °C to 500 °C	In House calibration Procedure ABLE-T009 Rev.:0	0.9 °C 1.9 °C 2.2 °C 3.2 °C
B10 Humidity / Temperature Measuring Instruments (Lab) Temperature: 15 to 35 °C Humidity: 20 % rh to 75 % rh 75 % rh to 95 % rh	In House calibration Procedure ABLE-T010 Rev.:0	0.5 °C 2.8 % rh 4.1 % rh
B11 Controlled Temperature Enclosure Measuring Instruments Freezers Oven & Furnaces -80 ~ -40 °C -40 ~ 100 °C 100 ~ 200 °C 200 ~ 400 °C 400 ~ 600 °C 600 ~ 800 °C 800 ~ 1100 °C Autoclaves 0 to 121 °C	In House calibration Procedure ABLE-T011 Rev.:0	(Lab & Site) 1.1 °C 1.5 °C 2.2 °C 2.9 °C 2.8 °C 3.9 °C 4.7 °C 0.2 °C

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED		METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
C	PRESSURE / MECHANICAL		
C1	Pneumatic Pressure instruments (Lab) -0.95 to 0 bar 0 to 2 bar 2 to 10 bar 10 to 35 bar 35 to 70 bar 70 to 100 bar 100 to 140 bar	In House calibration Procedure ABLE-P001 Rev.:1	0.00034 bar 0.00060 bar 0.0029 bar 0.0041 bar 0.0067 bar 0.010 bar 0.016 bar
C2	Hydraulic Pressure instruments (Lab) 3 to 10 bar 10 to 70 bar 70 to 100 bar 100 to 2600 bar	In House calibration Procedure ABLE-P002 Rev.:1	0.0045 % of reading 0.0086 % of reading 0.0067 % of reading 0.0099 % of reading
C3	Absolute Pressure instruments (Lab) 0.01 bar (a) to 1.2 bar(a) 0.01 bar (a) to 16 bar(a) 0 bar (a) to 31 bar (a) 31 bar (a) to 70 bar(a) 70 bar (a) to 101 bar(a) 101 bar (a) to 140 bar(a)	In House calibration Procedure ABLE-P003 Rev.:1 Using Chamber with Gauge Using Pressure Calibrator	0.029 bar(a) 0.033 bar(a) 0.0041 bar(a) 0.0067 bar(a) 0.012 bar(a) 0.014 bar(a)
C4	Differential Pressure instruments -1000 Pa to 1000 Pa	In House calibration Procedure ABLE-P004 Rev.:1	(Lab & Site) 0.62 Pa

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
C5 High Vacuum Pressure instruments 760 torr to 5 E-1 torr 5 E-1 to 1 E-1 torr 1 E-1 to 5 E-2 torr 5 E-2 to 1 E-2 torr 1 E-2 to 5 E-3 torr 5 E-3 to 1 E-3 torr 1 E-3 to 5 E-4 torr 5 E-4 to 1 E-4 torr 1 E-4 to 5 E-5 torr 5 E-5 to 1 E-5 torr 1 E-5 to 5 E-6 torr 5 E-6 to 1 E-6 torr	In House calibration Procedure ABLE-P005 Rev.:1	(Lab & Site) 7.0 % of reading 7.4 % of reading 7.1 % of reading 9.5 % of reading 7.7 % of reading 8.8 % of reading 7.7 % of reading 8.8 % of reading 7.7 % of reading 8.9 % of reading 10 % of reading 15 % of reading
C6 Pneumatic Pressure instruments (Onsite) -0.95 to 0 bar 0 to 2 bar 2 to 10 bar 10 to 70 bar	In House calibration Procedure ABLE-P006 Rev.:1	0.00034 bar 0.00060 bar 0.0029 bar 0.041 bar
C7 Hydraulic Pressure instruments (Onsite) 0 to 200 bar 200 to 350 bar 350 to 700 bar 700 to 1000 bar	In House calibration Procedure ABLE-P007 Rev.:1	0.12 bar 0.21 bar 0.41 bar 0.60 bar

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
C8 Tachometer Non-contact measurements 10 to 600 rpm 600 to 999 rpm 999 to 1200 rpm 1200 to 3000 rpm 3000 to 9999 rpm 9999 to 20000 rpm 20000 to 30000 rpm 30000 to 40000 rpm 40000 to 50000 rpm 50000 to 60000 rpm	House calibration Procedure ABLE-P008 Rev.:1	(Lab & Site) 0.1 rpm 0.11 rpm 0.12 rpm 0.16 rpm 1.1 rpm 1.3 rpm 1.6 rpm 1.8 rpm 2.1 rpm 2.4 rpm
C9 Balance & Weighing Scale 1 to 2 mg 2 to 20 mg 20 to 50 mg 50 to 100 mg 100 to 200 mg 200 to 500 mg 0.5 to 1 g 1 to 10 g 10 to 100 g 100 to 220 g 220 to 310 g 310 to 620 g 620 to 1000 g 1 to 5 kg 5 to 10 kg 10 to 20 kg 20 to 30 kg 30 to 50 kg 50 to 60 kg 60 to 100 kg 100 to 200 kg 200 to 300 kg 300 to 600 kg	In House calibration Procedure ABLE-P009 Rev.:0	(Lab & Site) 0.095 mg 0.057 mg 0.058 mg 0.058 mg 0.056 mg 0.057 mg 0.000089 g 0.000090 g 0.00026 g 0.00045 g 0.00056 g 0.0018 g 0.020 g 0.000023 kg 0.000030 kg 0.00017 kg 0.00028 kg 0.0018 kg 0.0025 kg 0.0039 kg 0.0069 kg 0.012 kg 0.2 kg

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MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
C10 Torque Measuring instruments (a) Hand Torque Tools 0 to 50 N-m 50 N-m to 500 N-m 500 N-m to 5000 N-m	In House calibration Procedure ABLE-P010(A) Rev.: 1 (Based on ISO 6789:2003)	 0.51% 0.53% 0.46%

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%.

Approved signatories :

Mr R. Saravanan	- For all Items
Mr M.Muthukumar	- Cat A, A1 to A20 Cat B, B8, B10 and B11 Cat C, C1 to C10
Mr K. Gopu	- Cat C, C1 to C10
Mr M.Prabhakaran	- Cat C, C1 to C10

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibrations. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.