



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

1 of 57

Validity

31/01/2025 to 30/01/2029

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)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.59 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	1 A to 10 A	0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.13 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	4.8 % to 0.45 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

2 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.45 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with 4½ Digital Multimeter by Direct Method	0.75 kV to 6 kV	1.19 % to 1.97 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.72 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	100 mV to 300 V	0.12 %



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AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

3 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ digit multimeter by Direct Method	100 V to 750 V	0.1 % to 0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct method	300 V to 600 V	0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	1.97 % to 6.32 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz @ Unity 230V ,0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33 %



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AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

4 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 Lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.33 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 110 V , 10 A to 100 A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.33 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz,Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz @ 0.5 Lag 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33 %



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AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

5 of 57

Validity

31/01/2025 to 30/01/2029

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4wire) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002 PF
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 1 kHz to 5 kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.14 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.14 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

6 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.5 % to 0.3 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 μ A to 10 mA	1.10 % to 0.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.13 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 120 A	0.18 % to 0.16 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct Method	5 A to 100 A	2.83 % to 0.92 %



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SCOPE OF ACCREDITATION

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AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

7 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.15 % to 0.18 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.8 Lead, 230 V,10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.2 Lag, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct method	2.4 W to 480 W	1.14 % to 0.07 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.5 Lag, 120 V to 240 V ,0.1 A to 10A	Using Multi product Calibrator by Direct Method	6 W to 1.2 kW	0.54 % to 0.17 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, UPF, 120 V to 240 V , 0.01 A to 10 A	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.18 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power single phase @ 50 Hz, 0.8 Lead, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct Method	9.6 W to 1.92 kW	0.4 % to 0.25 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

8 of 57

Validity

31/01/2025 to 30/01/2029

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.11 % to 0.3 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.5 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 18 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 90 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	2.24 % to 0.47 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %



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AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

9 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.65 % to 0.35 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.23 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz	Using Multi Product Calibrator by Direct method	10 mV to 10 V	0.46 % to 0.12 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.2 % to 0.07 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.07 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

10 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.20 % to 0.13 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	300 V to 600 V	0.13 % to 0.02 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 wh to 5.5 kWh	0.17 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 lead, 110 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.17 % to 0.20 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V , 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.20 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

11 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.5 Lag, 230 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.20 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	0.35 nF to 10 nF	4.25 % to 0.7 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade capacitance box by Direct Method	10 nF to 1 µF	0.7 % to 0.8 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @100 Hz	Using Multi Product Calibrator by Direct Method	1.09 µF to 1.1 mF	0.4 % to 1.3 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

12 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	1 mH to 9 H	2.31 % to 2.6 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01 PF
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lead	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF to 0.001 PF
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.15 % to 0.1 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.14 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

13 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-Wire)	Using 6½ Digit Multimeter by Direct Method	110 kohm to 1 Mohm	0.01 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.01 % to 0.05 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.2 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.5 % to 0.02 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 k ohm	0.02 % to 0.01 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4½ Digit Multimeter by Direct Method	1 kV to 12 kV	1.17 % to 2.81 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

14 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.004 % to 0.006 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 V to 1000 V	0.006 % to 0.01 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.6 % to 0.02 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

15 of 57

Validity

31/01/2025 to 30/01/2029

Last Amended on

-

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	1.15 % to 0.03 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	100 Mohm to 1 Gohm	0.6 % to 1.15 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Gohm to 100 Gohm	1.15 % to 2.96 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.08 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

16 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	10 kohm to 1 Mohm	0.02 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box and Multi product Calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 mohm to 1 ohm	0.12 % to 0.50 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.03 % to 0.02 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.37 % to 0.04 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.04 % to 0.01 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

17 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 μ V to 1 mV	3.48 % to 0.37 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 %
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer Ratio Error @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 100 A	0.15 %
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Square/Sine/Triangle Wave Signal)	Using Multi Product Calibrator by Direct Method	5 mV to 55 V	1.8 % to 2.3 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

18 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi Product Calibrator by Direct Method	50 kHz to 200 MHz	2.31 % to 1.16 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Multi Product Calibrator by Direct Method	2 ns to 5 s	1.2 %
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1000 °C	0.17 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1000 °C	0.2 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1300 °C	0.27 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1200 °C	0.23 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

19 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Digital Thermometer by Direct Method	1 °C to 1750 °C	0.8 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using digital Thermometer by Direct Method	(-) 200 °C to 800 °C	0.56 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Digital thermometer by Direct Method	1 °C to 1700 °C	0.8 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Digital thermometer by Direct Method	(-) 200 °C to 300 °C	0.19 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

20 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.70 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.60 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.3 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

21 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.06 % to 0.01 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 500 kHz	0.01 % to 0.02 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.04 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by comparison Method	1 s to 10 s	0.13 s
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by Comparison Method	10 s to 90 min	0.13 s to 0.56 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

22 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	2.91 rpm
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Indicator with Sensor (Non Contact Type)	Using Tachometer and RPM Source by Comparison Method	60 rpm to 20000 rpm	1.87 rpm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

23 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination sets (L.C.: 5 min)	Using Profile Projector by comparison Method	0 to 360 °	6.81 min of arc
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission accuracy) (L.C.: 0.001 mm)	Using Universal Length Measuring Machine by Comparison method	0 to 1.5 mm	1.53 μ m
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Thickness Foils by Comparison Method	10 μ m to 1500 μ m	1.9 μ m
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C. 0.01 mm)	Using Slip Gauge Blocks by comparison Method	0 to 300 mm	6.11 μ m
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C 0.01 mm)	Using Slip Gauges by Comparison Method	0 to 10 mm	6.7 μ m



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

24 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C : 0.001 mm)	Using Slip Gauges by comparison Method	0 to 300 mm	1.95 μ m
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C : 0.01 mm)	Using Long Gauges as per IS 2967 by comparison Method	300 mm to 500 mm	6.55 μ m
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison Method	0.05 mm to 1 mm	1.1 μ m
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using Universal Length Measuring Machine by Comparison Method	0.01 mm to 2 mm	1.05 μ m
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge (L.C: 0.01 mm)	Using Universal Length Measuring Machine and Slip Gauges by Comparison Method	0 to 100 mm	6.22 μ m



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

25 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Stick Micrometer (L.C: 0.01 mm)	Using Universal Length Measuring Machine by comparison Method	50 mm to 500 mm	6.5 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 0.14 mm	1.5 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine/Long gauge blocks/Dial gauge by Comparison Method	25 mm to 600 mm	4.7 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.1 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	66 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	1.55 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

26 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C. 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 25 mm	1.5 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex profile)	Using Profile Projector by comparison Method	Up to 25 mm	4.8 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring / Plain Ring Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	2.5 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Gap size)	Using Slip Gauges by comparison Method	3 mm to 200 mm	2.9 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Profile Projector by comparison Method	0.01 mm to 2 mm	3.04 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

27 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Universal Length Measuring Machine by comparison Method	0.17 mm to 6.35 mm	1.05 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.25 mm to 10 mm	2.9 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using Universal Length Measuring Machine by comparison Method	4 mm to 150 mm	1.6 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by comparison Method	5 mm to 150 mm	2.95 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	13.6 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

28 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper(L.C: 0.02)	Using Long gauge Blocks by comparison Method	0 to 2000 mm	20.5 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (L.C: 0.01 mm)	Using Slip Gauges as Per (IS 16491 Part 2) by comparison Method	0 to 300 mm	7.6 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	10.2 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.02 mm)	Using Long Gauge Blocks by comparison Method	0 to 1000 mm	14.0 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Bridge Cam Gauge	Using Profile Projector by Comparison Method	Up to 30 mm	7.91 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

29 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	Up to 10 mm	6.73 µm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital Comparator Probe (L.C.: 0.0001 mm)	Using Universal Length Measuring Machine by Comparison Method	0 to 25 mm	1.2 µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Gauge Blocks	Using Universal Length Measuring Machine/Long Gauge Blocks by comparison Method	125 to 400 mm	2.1 µm
160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) - Magnification	Using Gauge Blocks by Comparison Method	10 X to 100 X	0.8 %
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C: 0.01 second)	Using Angle Gauges by Comparison Method	0 ° to 360 °	3 min. of Arc.
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

30 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	0.5 mm to 25 mm	0.2 µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	25 mm to 50 mm	0.2 µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Gauge Blocks K'Grade by Comparison Method	50 mm to 100 mm	0.40 µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54 µm
167	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 700 bar	0.72 % rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4254 **Page No** 31 of 57

Validity 31/01/2025 to 30/01/2029 **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)(±)
168	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With hydraulic hand Pump and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 70 bar	1.75 % rdg
169	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump, 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 20 bar	1.4 % rdg
170	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Pressure Calibrator and 6½ Digit Multimeter by Comparison Method as per DKDR 6-1	(-) 0.8 bar to 0	2.23 % rdg
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g /2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 60 kg	3 g
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (readability : 1 g / 2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 30 kg	2 g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4254 **Page No** 32 of 57

Validity 31/01/2025 to 30/01/2029 **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)(±)
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability :100 g) Class IIII	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 20 kg	0.07 kg
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 20 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 5 kg	25 g
175	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 200 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 50 kg	0.14 kg
176	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 50 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 10 kg	0.06 kg
177	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 500 g)	Using F1 class standard weights By Direct Method	0 to 100 kg	550 g
178	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability:1 kg) Class IIII	Using F1 class standard weights By Direct Method	0 to 300 kg	1.2 kg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

33 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.59 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	1 A to 10 A	0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.13 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	4.8 % to 0.45 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

34 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.45 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with 4½ Digital Multimeter by Direct Method	0.75 kV to 6 kV	1.19 % to 1.97 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.72 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	100 mV to 300 V	0.12 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

35 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ digit multimeter by Direct Method	100 V to 750 V	0.1 % to 0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct method	300 V to 600 V	0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	1.97 % to 6.32 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz @ Unity 230V ,0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

36 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 Lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.33 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 110 V , 10 A to 100 A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.33 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz,Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz @ 0.5 Lag 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

37 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4wire) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002 PF
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 1 kHz to 5 kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.14 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.14 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

38 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.5 % to 0.3 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 μ A to 10 mA	1.10 % to 0.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.13 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 120 A	0.18 % to 0.16 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct Method	5 A to 100 A	2.83 % to 0.92 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

39 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.15 % to 0.18 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.8 Lead, 230 V,10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.2 Lag, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct method	2.4 W to 480 W	1.14 % to 0.07 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.5 Lag, 120 V to 240 V ,0.1 A to 10A	Using Multi product Calibrator by Direct Method	6 W to 1.2 kW	0.54 % to 0.17 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, UPF, 120 V to 240 V , 0.01 A to 10 A	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.18 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power single phase @ 50 Hz, 0.8 Lead, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct Method	9.6 W to 1.92 kW	0.4 % to 0.25 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

40 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.11 % to 0.3 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.5 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 18 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 90 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	2.24 % to 0.47 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

41 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.65 % to 0.35 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.23 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz	Using Multi Product Calibrator by Direct method	10 mV to 10 V	0.46 % to 0.12 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.2 % to 0.07 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.07 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

42 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.20 % to 0.13 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	300 V to 600 V	0.13 % to 0.02 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 wh to 5.5 kWh	0.17 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 lead, 110 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.17 % to 0.20 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V , 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.20 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

43 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.5 Lag, 230 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.20 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	0.35 nF to 10 nF	4.25 % to 0.7 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade capacitance box by Direct Method	10 nF to 1 µF	0.7 % to 0.8 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @100 Hz	Using Multi Product Calibrator by Direct Method	1.09 µF to 1.1 mF	0.4 % to 1.3 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

44 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	1 mH to 9 H	2.31 % to 2.6 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01 PF
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lead	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF to 0.001 PF
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.15 % to 0.1 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.14 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

45 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-Wire)	Using 6½ Digit Multimeter by Direct Method	110 kohm to 1 Mohm	0.01 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.01 % to 0.05 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.2 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.5 % to 0.02 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 k ohm	0.02 % to 0.01 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4½ Digit Multimeter by Direct Method	1 kV to 12 kV	1.17 % to 2.81 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

46 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.004 % to 0.006 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 V to 1000 V	0.006 % to 0.01 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.6 % to 0.02 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

47 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	1.15 % to 0.03 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	100 Mohm to 1 Gohm	0.6 % to 1.15 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Gohm to 100 Gohm	1.15 % to 2.96 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.08 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

48 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	10 kohm to 1 Mohm	0.02 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box and Multi product Calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 mohm to 1 ohm	0.12 % to 0.50 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.03 % to 0.02 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.37 % to 0.04 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.04 % to 0.01 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

49 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 μ V to 1 mV	3.48 % to 0.37 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 %
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer Ratio Error @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 100 A	0.15 %
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Square/Sine/Triangle Wave Signal)	Using Multi Product Calibrator by Direct Method	5 mV to 55 V	1.8 % to 2.3 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

50 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi Product Calibrator by Direct Method	50 kHz to 200 MHz	2.31 % to 1.16 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Multi Product Calibrator by Direct Method	2 ns to 5 s	1.2 %
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1000 °C	0.17 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1000 °C	0.2 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1300 °C	0.27 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1200 °C	0.23 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

51 of 57

Validity

31/01/2025 to 30/01/2029

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)($\pm$)
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Digital Thermometer by Direct Method	1 °C to 1750 °C	0.8 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using digital Thermometer by Direct Method	(-) 200 °C to 800 °C	0.56 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Digital thermometer by Direct Method	1 °C to 1700 °C	0.8 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Digital thermometer by Direct Method	(-) 200 °C to 300 °C	0.19 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

52 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.70 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.60 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.3 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

53 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.06 % to 0.01 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 500 kHz	0.01 % to 0.02 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.04 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by comparison Method	1 s to 10 s	0.13 s
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by Comparison Method	10 s to 90 min	0.13 s to 0.56 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

54 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) - Magnification	Using Gauge Blocks by Comparison Method	10 X to 100 X	0.8 %
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C: 0.01 second)	Using Angle Gauges by Comparison Method	0 ° to 360 °	3 min. of Arc.



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

55 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54 µm
129	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 700 bar	0.72 % rdg
130	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With hydraulic hand Pump and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 70 bar	1.75 % rdg
131	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump, 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 20 bar	1.4 % rdg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4254

Page No

56 of 57

Validity

31/01/2025 to 30/01/2029

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)(±)
132	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Pressure Calibrator and 6½ Digit Multimeter by Comparison Method as per DKDR 6-1	(-) 0.8 bar to 0	2.23 % rdg
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g /2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 60 kg	3 g
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & coarser) Readability : 0.01 mg	Using E1 Class Standard Weights as per OIML R 76-1 By Direct Method	0 to 220 g	1.16 mg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability : 0.2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 5 kg	0.25 g
136	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (readability : 1 g / 2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 30 kg	2 g
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability : 5 g)	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 300 kg	29 g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4254 **Page No** 57 of 57

Validity 31/01/2025 to 30/01/2029 **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)($\pm$)
138	THERMAL-TEMPERATURE	Temp Indicator with sensor of Freezer, Deep freezer, Refrigerator, Chamber,bath,Industrial Incubator (non medical pupose only), Salt Spray chamber,Autoclave(non medical pupose only) (single position)	Using PRT with Indicator by Comparison Method	(-) 40 °C to 300 °C	0.61 °C
139	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Dry Block, Temperature indicator with sensor of Hot Air oven (Single position)	Using PRT with Indicator by Comparison Method	300 °C to 600 °C	0.71 °C
140	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Industrial Furnace ,Dry Block(Single position)	Using S Type thermocouple with Indicator by comparison method	>600 °C to 1000 °C	1.84 °C
141	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Industrial Furnace, Dry Block (Single position)	Using S Type thermocouple with Indicator by comparison method	>1000 °C to 1200 °C	2.44 °C

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