National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 1 of 38

Validity 01/10/2024 to 30/09/2028 **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 6½ Digital Multimeter by Direct Method	1 mA to 200 mA	0.43 % to 0.17 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	200 mA to 10 A	0.17 % to 0.33 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	1.18 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 750 V	0.17 % to 0.13 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mA to 10 A	2.43 % to 0.45 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 2 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with 100 turns Current Coil by Direct Method	10 A to 810 A	0.77 % to 1.2 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	10 mV to 200 mV	0.75 % to 0.19 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	200 mV to 1000 V	0.19 % to 0.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.4 % to 1.2 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	10 mH to 10 H	1.25 % to 1.3 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digital Multimeter by Direct Method	1 nF to 100 uF	8.81 % to 3.15 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 3 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 200 mA	0.12 % to 0.06 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	200 mA to 10 A	0.06 % to 0.27 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 V	0.59 % to 0.007 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 1000 V	0.007 % to 0.008 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct Method	20 kohm to 100 Mohm	0.003 % to 1.07 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 20 kohm	0.01 % to 0.003 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 4 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 10 A	0.27 % to 0.18 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	0.31 % to 0.88 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	1.4 % to 0.14 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1000 Mohm	0.12 % to 0.6 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 ohm to 100 kohm	0.26 % to 0.12 %
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	0.77 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 5 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.24 °C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.52 °C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1300 °C	0.47 °C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.76 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 6 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1750 °C	0.5 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	0.7 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.24 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.52 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 7 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1300 °C	0.52 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.71 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.28 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1750 °C	0.51 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
41	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 10 kHz	0.11 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 8 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
42	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 3600 s	0.14 s to 0.94 s
43	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	3600 s to 86400 s	0.94 s to 15.8 s
44	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 1 kHz	0.18 % to 1.61 %
45	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & RPM Calibrator by Comparison Method	10 rpm to 100 rpm	5.3 %
46	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & RPM Calibrator by Comparison Method	100 rpm to 8000 rpm	0.7 %
47	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & RPM Calibrator by Comparison Method	10 rpm to 100 rpm	5.3 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 9 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
48	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & RPM Calibrator by Comparison Method	100 rpm to 10000 rpm	0.74 %
49	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & RPM Calibrator by Comparison Method	10000 rpm to 90000 rpm	0.11 %
50	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct method	94 dB	0.42 dB
51	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct method	114 dB	0.42 dB
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm and Coarser)	Using Caliper Checker and Slip Gauges by Comparison Method	0 to 300 mm	9.9 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm and Coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	14.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 10 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foil	Using Plunger Dial Indicator with Comparator Stand by Comparison Method	0.009 mm to 2.85 mm	1.71 µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.001 mm and Coarser)	Using Thickness Foils by Comparison Method	9 µm to 2000 µm	2.97 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (L.C.: 0.01 mm and Coarser)	Using Slip Gauges and Length Bars by Comparison Method	0 to 200 mm	10.1 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm and Coarser)	Using Slip Gauges and Length Bars by Comparison Method	0 to 200 mm	7.42 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm and Coarser)	Using Slip Gauges by Comparison Method	0 to 10 mm	6.7 µm

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 11 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm and Coarser)	Using Slip Gauges and Length Bars by Comparison Method	0 to 100 mm	3.73 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm and Coarser)	Using Slip Gauges by Comparison Method	0 to 25 mm	1.82 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm and Coarser)	Using Slip Gauges and Length Bars by Comparison Method	100 mm to 600 mm	11.6 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Slip Gauges, Plunger Dial Indicator by Comparison Method	0.03 mm to 1 mm	1.7 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm and Coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	12.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 12 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.01 mm and Coarser)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	5.81 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Indicator (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.1 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauges, Plunger Dial Indicator and Comparator Stand by Comparison Method	0.2 mm to 20 mm	2.43 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip gauges, Length Bars, Plunger Dial Indicator and Surface Plate by Comparison Method	100 mm to 300 mm	5.6 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip Gauges, Length Bars, Plunger Dial Indicator and Surface Plate by Comparison Method	300 mm to 575 mm	12.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 13 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip Gauges, Length Bars, Plunger Dial Indicator and Surface Plate by Comparison Method	50 mm to 100 mm	1.62 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauges, Plunger Dial Indicator with Comparator Stand by Comparison Method	3 mm to 100 mm	1.28 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm and Coarser)	Using Slip Gauges and Dial Calibration Tester by Comparison Method	0 to 25 mm	1.5 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges by Comparison Method	2 mm to 200 mm	3.9 µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0002 mm	Using Plunger Dial Indicator (L.C.: 0.0001 mm) by Comparison Method	0 to 25 mm	1.94 um

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	14 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
74	MECHANICAL-PRESSURE INDICATING DEVICES	-Pneumatic Pressure - Pressure gauge(Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 20 bar	0.016 bar
75	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge (Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD-R-6-1	0 to 1000 bar	0.6 bar

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	15 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
76	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge (Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 700 bar	0.42 bar
77	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer, Pressure gauge (Analog / Digital), Magnehelic Gauge, Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Digital Manometer, Digital Multimeter & Screw pump by Comparison Method as per DKD R 6 - 1	0 to 100 mbar	1.85 mbar

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	16 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
78	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge (Analog / Digital), Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R6 - 1	0 to 1 bar	0.0019 bar
79	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Vacuum gauge (Analog / Digital) Vacuum Transducer / Transmitter, Vacuum Switch, Vacuum Module, Vacuum Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	(-) 0.95 bar to 0	0.0019 bar
80	MECHANICAL-VOLUME	Volumetric Flask, Graduated Jar, Beaker, Dispenser, Conical Flask, Measuring Cylinder, Standard Flask, Syringe (Non Medical Purpose only)	Using Electronic Balance of Readability 0.001 g and Distilled Water by Gravimetric Method as per ISO 4787 : 2021	1 ml to 2000 ml	0.14 ml

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	17 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
81	MECHANICAL-VOLUME	Volumetric Flask, Graduated Jar, Beaker, Dispenser, Conical Flask, Measuring Cylinder, Standard Flask, Syringe (Non Medical Purpose only)	Using Electronic Balance of Readability 0.1 g and Distilled Water by Gravimetric Method as per ISO 4787:2021	2000 ml to 5000 ml	1.1 ml
82	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Accuracy Class II, Readability:0.01 g and Coarser	Using E1, E2 & F2 Class Standard Weights by Comparison Method as per OIML R 76 - 1	0 to 10.1 kg	34 mg
83	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Accuracy Class II, Readability:0.01 g and Coarser	Using E1, E2 & F2 Class Standard Weights by Comparison Method as per OIML R 76 - 1	0 to 30 kg	0.12
84	MECHANICAL-WEIGHTS	Accuracy class F1 & Coarser	Using E2 Class Standard Weights & Digital Weighing Balance (Readability 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	1 kg	1 mg

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 18 of 38

Validity 01/10/2024 to 30/09/2028 **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	MECHANICAL-WEIGHTS	Accuracy class F1 & Coarser	Using E2 Class Standard Weights & Digital Weighing Balance (Readability 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	2 kg	1.6 mg
86	MECHANICAL-WEIGHTS	Accuracy class F1 & Coarser	Using E2 Class Standard Weights & Digital Weighing Balance (Readability 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	500 g	0.9 mg
87	MECHANICAL-WEIGHTS	Accuracy class F2 & Coarser	Using E2 Class Standard Weights & Digital Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	5 kg	12 mg

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4064
Page No	19 of 38
Validity	01/10/2024 to 30/09/2028
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)(±)
88	MECHANICAL-WEIGHTS	Accuracy class M1 & Coarser	Using F2 Class Standard Weights & Digital Weighing Balance (Readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	10 kg	19 mg
89	MECHANICAL-WEIGHTS	Accuracy class M1 & Coarser	Using F2 Class Standard Weights & Digital Weighing Balance (Readability 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	20 kg	86 mg
90	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer (Analog / Digital), Humidity Sensor with Indicator, Humidity Datalogger with Internal / External Sensor, Humidity Transmitter with indicator	Using Temperature Humidity Indicator with Probe & Humidity Calibrator by Comparison Method	10 °C to 55 °C @ 50 % rh	0.19 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	20 of 38
Validity	01/10/2024 to 30/09/2028	**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	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer (Analog / Digital), Humidity Sensor with Indicator, Humidity Datalogger with Internal / External Sensor, Humidity Transmitter with indicator	Using Temperature Humidity Indicator with Probe & Humidity Calibrator by Comparison Method	20 % rh to 95 % rh @ 25 °C	1.46 % rh
92	THERMAL-TEMPERATURE	IR Thermometer, Non contact Thermometer, Pyrometer	Using IR Thermometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	2.91 °C
93	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator & Liquid Bath by Comparison Method	(-) 60 °C to 250 °C	0.72 °C
94	THERMAL-TEMPERATURE	RTD / Thermocouple With or Without Indicator, Datalogger / Recorder / Transmitter with Sensor, Temperature Indicator with Sensor, Temperature Gauge	Using RTD Sensor with Indicator, DMM & Liquid Bath by Comparison Method	(-) 60 °C to 30 °C	0.5 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	21 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
95	THERMAL-TEMPERATURE	RTD / Thermocouple With or Without Indicator, Datalogger / Recorder / Transmitter with Sensor, Temperature Indicator with Sensor, Temperature Gauge	Using RTD Sensor with Indicator, DMM & Dry Block Calibrator by Comparison Method	30 °C to 400 °C	0.96 °C
96	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Oven, Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	250 °C to 1200 °C	2.4 °C
97	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Low Temperature Bath, Oil Bath, Dry Block Calibrator, Deep Freezer, Refrigerator, Cryogenic Bath, BOD Incubator (Non Medical Purpose Only), Oven - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 250 °C	0.4 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 22 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
98	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source	Using IR Thermometer (Emissivity:0.95) by Comparison Method	50 °C to 500 °C	2.91 °C
99	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator, Thermometer with Sensor, Datalogger / Recorder / Transmitter with Sensor, Temperature Gauge, Temperature Indicator / Controller with Sensor	Using S Type Thermocouple with Indicator & Dry block Calibrator by Comparison Method	400 °C to 1200 °C	2 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 23 of 38

Validity 01/10/2024 to 30/09/2028 **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 6½ Digital Multimeter by Direct Method	1 mA to 200 mA	0.43 % to 0.17 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	200 mA to 10 A	0.17 % to 0.33 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	1.18 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 750 V	0.17 % to 0.13 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mA to 10 A	2.43 % to 0.45 %

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	24 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with 100 turns Current Coil by Direct Method	10 A to 810 A	0.77 % to 1.2 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	10 mV to 200 mV	0.75 % to 0.19 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	200 mV to 1000 V	0.19 % to 0.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.4 % to 1.2 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	10 mH to 10 H	1.25 % to 1.3 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digital Multimeter by Direct Method	1 nF to 100 uF	8.81 % to 3.15 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 25 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 200 mA	0.12 % to 0.06 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	200 mA to 10 A	0.06 % to 0.27 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 V	0.59 % to 0.007 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 1000 V	0.007 % to 0.008 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digital Multimeter by Direct Method	20 kohm to 100 Mohm	0.003 % to 1.07 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 20 kohm	0.01 % to 0.003 %

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	26 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 10 A	0.27 % to 0.18 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	0.31 % to 0.88 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	1.4 % to 0.14 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1000 Mohm	0.12 % to 0.6 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 ohm to 100 kohm	0.26 % to 0.12 %
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	0.77 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 27 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.24 °C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.52 °C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1300 °C	0.47 °C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.76 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.27 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 28 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1750 °C	0.5 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	0.7 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.24 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.52 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4064
Page No	29 of 38
Validity	01/10/2024 to 30/09/2028
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)(±)
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1300 °C	0.52 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.71 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.28 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	100 °C to 1750 °C	0.51 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.16 °C
41	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 10 kHz	0.11 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 30 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
42	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 3600 s	0.14 s to 0.94 s
43	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	3600 s to 86400 s	0.94 s to 15.8 s
44	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 1 kHz	0.18 % to 1.61 %
45	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	5.2 %
46	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.4 %
47	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator / RPM Source / RPM Meter	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	5.3 %
48	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator / RPM Source / RPM Meter	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.42 %

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 31 of 38

Validity 01/10/2024 to 30/09/2028 **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	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator / RPM Source / RPM Meter	Using Digital Tachometer by Comparison Method	15000 rpm to 90000 rpm	0.11 %
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm and Coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	12.5 µm
51	MECHANICAL-PRESSURE INDICATING DEVICES	-Pneumatic Pressure - Pressure gauge(Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 20 bar	0.016 bar

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	32 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
52	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge (Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD-R-6-1	0 to 1000 bar	0.6 bar
53	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge (Analog / Digital) Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 700 bar	0.42 bar

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	33 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
54	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer, Pressure gauge (Analog / Digital), Magnehelic Gauge, Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Digital Manometer, Digital Multimeter & Screw pump by Comparison Method as per DKD R 6 - 1	0 to 100 mbar	1.85 mbar
55	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge (Analog / Digital), Pressure Transducer / Transmitter, Pressure Switch, Pressure Module, Pressure Calibrator, Pressure Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R6 - 1	0 to 1 bar	0.0019 bar

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 34 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
56	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Vacuum gauge (Analog / Digital) Vacuum Transducer / Transmitter, Vacuum Switch, Vacuum Module, Vacuum Transducer / Transmitter with Indicator	Using Pressure Calibrator, Digital Multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	(-) 0.95 bar to 0	0.0019 bar
57	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Accuracy Class II, Readability:0.01 g and Coarser	Using E1, E2 & F2 Class Standard Weights by Comparison Method as per OIML R 76 - 1	0 to 10.1 kg	34 mg
58	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Accuracy Class II, Readability:0.01 g and Coarser	Using E1, E2 & F2 Class Standard Weights by Comparison Method as per OIML R 76 - 1	0 to 30 kg	0.12
59	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Chamber, Climatic Chamber, Environmental Chamber - Single Position Calibration	Using Temperature & Humidity Indicator with Probe by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.46 % rh

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 35 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
60	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Chamber, Climatic Chamber, Environmental Chamber - Single Position Calibration	Using Temperature & Humidity Indicator with Probe by Comparison Method	10 °C to 50 °C @ 50 % rh	0.72 °C
61	THERMAL-TEMPERATURE	IR Thermometer, Non contact Thermometer, Pyrometer	Using IR Thermometer and Black Body Source (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	2.91 °C
62	THERMAL-TEMPERATURE	RTD / Thermocouple With or Without Indicator, Datalogger / Recorder / Transmitter with Sensor, Temperature Indicator with Sensor, Temperature Gauge	Using RTD Sensor with Indicator, DMM & Liquid Bath by Comparison Method	(-) 60 °C to 30 °C	0.5 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	36 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
63	THERMAL-TEMPERATURE	RTD / Thermocouple With or Without Indicator, Datalogger / Recorder / Transmitter with Sensor, Temperature Indicator with Sensor, Temperature Gauge	Using RTD Sensor with Indicator, DMM & Dry Block Calibrator by Comparison Method	30 °C to 400 °C	0.96 °C
64	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Oven, Furnace - Single Position Calibration	Using S Type Thermocouple with Indicator by Comparison Method	250 °C to 1200 °C	2.4 °C
65	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Low Temperature Bath, Oil Bath, Dry Block Calibrator, Deep Freezer, Refrigerator, Cryogenic Bath, BOD Incubator (Non Medical Purpose Only), Oven - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 250 °C	0.4 °C

SCOPE OF ACCREDITATION

Laboratory Name : CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4064 **Page No** 37 of 38

Validity 01/10/2024 to 30/09/2028 **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)(±)
66	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Black Body Source	Using IR Thermometer (Emissivity:0.95) by Comparison Method	50 °C to 500 °C	2.91 °C
67	THERMAL-TEMPERATURE	Thermal Chamber, Oven, Furnace - Multi Position Calibration	Using N Type Thermocouples (Minimum 9 Sensors) with Datalogger by Comparison Method	250 °C to 940 °C	5.33 °C
68	THERMAL-TEMPERATURE	Thermocouple With or Without Indicator, Thermometer with Sensor, Datalogger / Recorder / Transmitter with Sensor, Temperature Gauge, Temperature Indicator / Controller with Sensor	Using S Type Thermocouple with Indicator & Dry block Calibrator by Comparison Method	400 °C to 1200 °C	2 °C

SCOPE OF ACCREDITATION

Laboratory Name :	CALZYS SERVICES PRIVATE LIMITED, 5A / 27, 2ND FLOOR, KAMARAJ NAGAR, 2ND STREET, KORATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4064	**Page No**	38 of 38
Validity	01/10/2024 to 30/09/2028	**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)(±)
69	THERMAL-TEMPERATURE	Ultra Low Temperature Freezer, Deep Freezer, Water Bath, Thermal Chamber, Refrigerator, Cryogenic Bath, Incubator, Autoclave (Non Medical purpose only) - Multi Position Calibration	Using RTD Sensors (Minimum 9 Sensors) with Datalogger by Comparison Method	(-) 80 °C to 250 °C	4.25 °C

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