National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 1 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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 Digit Multimeter by Direct Method	1 A to 10 A	0.36 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.56 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.3 % to 0.36 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using High Current Shunt with 6½ Digit Multimeter by Direct Method	10 A to 1000 A	1.2 % to 1.8 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using Current Transformer with 6½ DMM by Direct Method.	1000 A to 2000 A	1.8 % to 2.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	7.26 % to 5.62 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 2 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	4.83 % to 0.24 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.21 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.24 % to 0.21 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.15 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.67 % to 0.40 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	2 A to 10 A	0.38 % to 0.33 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 3 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.40 % to 0.38 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	2.3 % to 1.3 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 200 mV	4.75 % to 1.07 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	20 V to 200 V	0.35 % to 0.33 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mV to 20 V	1.07 % to 0.45 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 V to 1000 V	0.33 % to 0.22 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.7 % to 1.5 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 4 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.4 % to 1.50 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.13 % to 0.21 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.45 % to 0.21 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.21 % to 0.15 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using High Current Shunt with 6½ Digit Multimeter by Direct Method	10 A to 1000 A	0.42 % to 0.84 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	5.65 % to 3.6 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 1 Gohm	0.12 % to 3.03 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 5 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.4 % to 0.08 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.05 % to 0.12 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 kohm	0.08 % to 0.05 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.42 % to 0.012 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.025 % to 0.015 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.012 % to 0.025 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.015 % to 0.012 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 6 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.71 % to 0.16 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2 A to 10 A	0.26 % to 0.24 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.16 % to 0.26 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	2.1 % to 1.1 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.01 ohm to 1 ohm	0.65 % to 0.63 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	1 kohm @ 35 mA	0.30 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	10 kohm @ 15 mA	0.30 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 7 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	10 ohm @ 0.35A	0.30 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	100 ohm @ 0.12 A	0.30 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 Mohm	0.50 % to 0.14 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.14 % to 1.15 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	1.15 % to 2.50 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	1 mohm @ 50A	0.30 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	1 ohm @ 1.2A	0.30 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 8 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	10 mohm @ 15A	0.30 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	100 µohm @ 100A	1.45 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	100 mohm @ 3.5A	0.30 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	20 µohm @ 250A	1.61 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	1 mV to 20 mV	1.52 % to 0.18 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.18 % to 0.70 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	20 V to 1000 V	0.11 % to 0.13 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 9 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mV to 20 V	0.70 % to 0.13 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 1000 V	Using HV Decade Resistance Box by Direct Method	0.1 Mohm to 100 Mohm	3.19 % to 3.15 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	1 Gohm	5.8 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method.	10 Gohm	6.1%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	100 Gohm	9.67%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	1000 Gohm	6.8 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	200 Mohm	6.4%

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 10 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	5 Gohm	5.9 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	500 Gohm	9.67 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	500 Mohm	6.4 %
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100 Type	Using Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.40 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.00 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.80 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.70 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 11 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.70 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.70 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.06 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.08 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.6 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 Type	Using Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.42 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.00 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 12 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.80 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.70 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.70 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.70 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.06 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.08 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.6 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 13 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	1 kHz to 10 kHz	0.02 %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	45 Hz to 1 kHz	0.04 % to 0.02 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	1 sec to 3600 sec	1.17 % to 0.091 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	3600 sec to 86400 sec	0.091 % to 0.091 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.29 % to 0.062 %
88	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	0.9 rpm
89	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	1.5 rpm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 14 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
90	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	2.5 rpm
91	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	10000 rpm to 90000 rpm	3.5 rpm
92	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	0.9 rpm
93	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.5 rpm
94	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 8000 rpm	5.6 rpm
95	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	0.9 rpm
96	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.5 rpm
97	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.5 rpm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 15 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10000 rpm to 90000 rpm	3.5 rpm
99	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer	Using Weighing Balance by Hydrostatic Weighing method as per NIST SP 250 - 78 Standard	0.6 g/ml to 2 g/ml	0.0016 g/ml
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set / Degree Protector / Inclinometer L.C.: 5 minutes & Coarser.	Using Angle Gauge Block Set by Comparison Method	0 ° to 180 °	13.53 min
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges (Transmission) L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	2.7 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.1 micron & Coarser	Using Standard Foils by Comparison Method	0.01 mm to 2.02 mm	1.5 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C : 0.001 mm & Coarser	Using Slip Gauge by Comparison Method	0 to 150 mm	1.5 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 16 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) L.C : 0.001 mm	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	2 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) L.C : 0.01 mm	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	5.90 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C : 0.001 mm & Coarser	Using Slip Gauge by Comparison Method	0 to 25 mm	2.0 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital External Micrometer L.C : 0.001 mm & Coarser.	Using Slip Gauge by Comparison Method	0 to 25 mm	1.01 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital External Micrometer L.C : 0.001 mm & Coarser.	Using Slip Gauge by Comparison Method	0 to 300 mm	4.19 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Dial Gauge with Comparator by Comparison Method.	0.02 mm to 1 mm	0.9 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 17 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital / Analog) L.C : 0.01 mm & Coarser	Using Caliper Checker & Surface Plate by Comparison Method	0 to 1000 mm	15 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital / Analog) L.C : 0.01 mm & Coarser	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	12 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Templates, Inspection of Jigs and Fixture / Moulds, Cube Moulds / Flakiness & Elongation Gauge, Slump Cone, Core Cutter (ID, OD, Height, Thickness)	Using Digital Caliper by Comparison Method	0 to 300 mm	15 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C : 0.001 mm & Coarser	Using Slip Gauge & Slip Gauge Accessories Set by Comparison Method	0 to 25 mm (Travel)	3 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 0.001 & coarser	Using Slip Gauge with accessories, Caliper checker by Comparison Method	0 to 1000 mm	14 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 18 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT with Indicator (Displacement Measuring System with Indicator) L.C : 0.001 mm & Coarser.	Using Slip Gauge Set / Dial Calibration Tester by Comparison Method	0 to 60 mm	2 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Digital Dial Gauge with Comparator by Comparison Method	0.5 mm to 20 mm	1.5 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C : 0.5 / 1 mm & Coarser	Using Tape & Scale Calibration Tester by Comparison Method	0 to 2000 mm	330 x Sqrt L µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (Woven Metallic, Glass Fiber & Steel Tape) L.C. : 1 mm	Using Tape & Scale Calibration Tester by Comparison Method	0 to 50000 mm	216xSqrt L µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard & Extension Rod of Internal & External Micrometer	Using Slip Gauge & Digital Dial Gauge with Comparator by Comparison Method	13 mm to 300 mm	2.5 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape L.C. : 0.1 & Coarser	Using Tape & Scale Calibration Tester by Comparison Method	0 to 1000 mm	230 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 19 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C : 0.1 mm	Using Slip Gauge by Comparison Method	0 to 50 mm	57.8 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge & Digital Dial Gauge with Comparator by Comparison Method	2 mm to 200 mm	3.3 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Digital / Dial) L.C : 0.001 mm & Coarser.	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	2 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Digital / Dial) L.C : 0.01 mm & Coarser.	Using Dial Calibration Tester & Slip Gauge by Comparison Method	0 to 50 mm	5.90 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge by Comparison Method	Up to 200 mm	4 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Comparison Method	4 mm to 125 mm	15 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 20 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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 (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Digital Dial Gauge with Comparator by Comparison Method	0 to 2.02 mm	0.9 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C. : 0.001 mm & Coarser	Using Slip Gauge by Comparison Method	0 to 100 mm	2.5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) L.C : 0.01 mm & Coarser	Using Slip Gauge, Caliper Checker & Digital Micrometer by Comparison Method	0 to 300 mm	12 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) L.C : 0.01 mm & Coarser.	Using Slip Gauge, Caliper Checker & Digital Micrometer by Comparison Method	0 to 1000 mm	18 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) L.C : 0.01 mm & Coarser.	Using Slip Gauge, Caliper Checker & Digital Micrometer by Comparison Method	0 to 600 mm	15 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (Digital / Analog) LC : 0.01 mm & Coarser	Using Slip Gauge by Comparison Method	0 to 150 mm	5.79 µm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 21 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
133	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers)	Using Digital Pressure Indicator with Hydraulic Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R- 6-1	0 to 1000 bar	1.5 bar
134	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers/ Magnehelic Gauges/Differential Gauges/Manometers)	Using Digital Manometer with Pneumatic Air Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R-6-1	0 to 100 mbar	0.9 mbar
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers/Differential Gauges/Manometers)	Using Digital Pressure Indicator with Pneumatic Air Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R-6-1	0 to 30 bar	0.01 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers)	Using Digital Vacuum Indicator with Vacuum Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R- 6-2	(-) 0.9 bar to 0	0.01 bar

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 22 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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-VOLUME	Laboratory Glassware (Volumetric Instruments), Burette, Measuring Cylinder, Density Bucket, Container Flask, Jar, Beaker (Graduated / One Mark type)	Using balance(d=0.1 g) and using distilled water by Gravimetric method as per ISO 4787:2021 & ISO 20461	> 2000 ml to 10000 ml	25 ml
138	MECHANICAL-VOLUME	Laboratory Glassware (Volumetric Instruments), Burette, Measuring Cylinder, Flask, Jar, Beaker, Bucket (Graduated / One Mark type)	Using balance(d=10 mg) and using distilled water by Gravimetric method as per ISO 4787:2021 & ISO 20461	> 1000 ml to 2000 ml	0.8 ml
139	MECHANICAL-VOLUME	Laboratory Glassware (Volumetric Instruments), Burette, Pipette, Measuring Cylinder, Syringe, Flask, Jar, Beaker, Dispensette, Density bottles (Graduated / One Mark type)	Using balance(d=1 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	> 100 ml to 500 ml	0.56 ml

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 23 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
140	MECHANICAL-VOLUME	Laboratory Glassware, Volumetric Instruments, Burette, Pipette, Measuring Cylinder, Peg Measure, Syringe, Flask, Jar, Beaker, Dispensette, Density bottles (Graduated / One Mark type)	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 4787:2021 & ISO 20461	> 10 ml to 100 ml	0.3 ml
141	MECHANICAL-VOLUME	Laboratory Glassware, Volumetric Instruments, Burette, Pipette, Measuring Cylinder, Peg Measure, Syringe, Flask, Jar, Beaker, Dispensette, Density bottles (Graduated / One Mark type)	Using balance(d=0.01 mg) and using distilled water by Gravimetric method as per ISO 8655- 6 & ISO 20461	1 ml to 10 ml	8 µl
142	MECHANICAL-VOLUME	Micro-Pipette, Syringe, Pipette (Piston Operated Pipette) Graduated / one mark / Single Volume	Using Distilled water & semi-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2002	> 100 µl to 1000 µl	0.45 µl
143	MECHANICAL-VOLUME	Micro-Pipette, Syringe, Pipette (Piston Operated Pipette) Graduated / one mark / Single Volume	Using Distilled water & semi-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2002	> 1000 µl to 10000 µl	11.6 µl

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 24 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
144	MECHANICAL-VOLUME	Micro-Pipette, Syringe, Pipette (Piston Operated Pipette) Graduated / one mark / Single Volume	Using Distilled water & semi-micro balance(d=0.01 mg) by Gravimetric method on ISO 8655 (part 6) :2002	> 20 µl to 100 µl	0.2 µl
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 0.001 g/1mg Class II and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1.	1 mg to 1 Kg	7.0 mg
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 0.01 g/10mg Class II and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	10 mg to 4 kg	15 mg
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 10 g Class IV and coarser	Using Standard Weight(s) of F1 class Methods as per OIML R 76-1.	10 g to 200 kg	30 g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 0.1 g Class II and coarser	Using Standard Weight(s) of E1 class and F1 Class Methods as per OIML R 76-1	100 mg to 30 kg	1 g
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 1 g Class III and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	1 g to 50 Kg	3 g
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 5 g Class III and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	5 g to 75 kg	10 g

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 25 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Semi Micro Balances, d= 0.01 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1	1 mg to 80 g	0.08 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Semi Micro Balances, d= 0.1 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1.	1 mg to 220 g	0.12 mg
153	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	1 g	0.03 mg
154	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	10 g	0.04 mg
155	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.1 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	100 g	0.12 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 26 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
156	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	2 g	0.04 mg
157	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	20 g	0.06 mg
158	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.1 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	200 g	0.18 mg
159	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	5 g	0.04 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 27 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
160	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	50 g	0.08 mg
161	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class F1 and Precision balance (d=0.001g) By Substitution Method as per OIML R 111-1 & ASTM E617	1 kg	3.5 mg
162	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg)By Substitution Method as per OIML R 111-1 & ASTM E617	1 mg	0.01 mg
163	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	10 mg	0.03 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 28 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
164	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	100 mg	0.03 mg
165	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class F1 and Balance (d=0.01g) By Substitution Method as per OIML R 111-1 & ASTM E617	2 kg	9 mg
166	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	2 mg	0.01 mg
167	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class F1 and Balance (d=0.1 g) By Substitution Method as per OIML R 111-1 & ASTM E617	20 kg	90 mg
168	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	20 mg	0.03 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 29 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
169	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	200 mg	0.03 mg
170	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	5 mg	0.01 mg
171	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	50 mg	0.03 mg
172	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class F1 and Precision balance (d=0.001g) By Substitution Method as per OIML R 111-1 & ASTM E617	500 g	1.5 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 30 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Semi-Micro balance (d=0.01 mg) By Substitution Method as per OIML R 111-1 & ASTM E617	500 mg	0.03 mg
174	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of Accuracy Class F1 and Balance (d=0.1 g) By Substitution Method as per OIML R 111-1 & ASTM E617	10 kg	90 mg
175	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of Accuracy Class F1 and Balance (d=0.1 g) By Substitution Method as per OIML R 111-1 & ASTM E617	5 kg	90 mg
176	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environmental Chambers, Humidity Chambers, Temperature & Humidity Chamber (Single Position)	Using Digital Temperature and Humidity Meter By Comparison Method	10 °C to 50 °C @ 50 %rh	0.87 °C
177	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environmental Chambers, Humidity Chambers, Temperature & Humidity Chamber (Single Position)	Using Digital Temperature and Humidity Meter By Comparison Method	15 %rh to 95 %rh @ 25°C	1.9 %rh

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 31 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
178	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-hygrometer, RH Sensor with Data Logger	Using Digital Temperature & Humidity Meter with Humidity & Temperature Generator Chamber By Comparison Method	10 °C to 50 °C @ 50%rh	0.87 °C
179	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-hygrometer, RH Sensor with Data Logger	Using Digital Temperature & Humidity Meter with Humidity & Temperature Generator Chamber By Comparison Method	15 %rh to 95 %rh @25°C	2.5 %rh
180	THERMAL-TEMPERATURE	Baths, Ovens, Furnaces, Temperature Enclosures, Autoclave (Non-Medical Purpose)	Using Using Minimum Nine N Type Thermocouples with Data logger by Multi position Calibration Method	250 °C to 1000 °C	5.05 °C
181	THERMAL-TEMPERATURE	Freezers, Ovens, Refrigerators, BOD, Environmental Chambers, Cold Chambers, Temperature Enclosures, Industrial Furnaces, Incubators/Autoclave (Non-Medical Purpose)	Using Minimum Nine RTD Sensors with Data logger by Multi position Calibration Method	(-)80 °C to 250 °C	2.18 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 32 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
182	THERMAL-TEMPERATURE	RTD's, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Low Temperature Bath by Comparison Method	(-)30 °C to 50 °C	0.90 °C
183	THERMAL-TEMPERATURE	RTD's, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Temp. Oil bath by Comparison Method	50 °C to 250 °C	1.79 °C
184	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Muffle Furnace, Tubular Furnace, Temperature Baths (Single Position)	Using S type Thermocouple With High Precision Digital Thermometer by Comparison Method	250 °C to 1500 °C	3.5 °C
185	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Water Bath, Liquid Bath, Freezer, Melting Point Apparatus, Incubators/Autoclave (Non-Medical Purpose) (Single Position)	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by Comparison Method	(-)80 °C to 250 °C	1.8 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 33 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
186	THERMAL-TEMPERATURE	Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using S type Thermocouple With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Dry Block Furnace by comparison Method	250 °C to 1200 °C	3.00 °C
187	THERMAL-TEMPERATURE	Thermometer - Digital / Dial / Glass In Thermometer	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by Comparison Method	26 °C to 250 °C	0.90 °C

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 34 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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 active Energy 1P & 3P @ 50 Hz, UPF (30 V to 320 V, 10 A to 120 A)	Using Power Quality Analyzer by Comparison Method	300 Wh to 50 kWh	1.60 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.36 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.56 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.3 % to 0.36 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using High Current Shunt with 6½ Digit Multimeter by Direct Method	10 A to 1000 A	1.2 % to 1.8 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current (50 Hz)	Using Current Transformer with 6½ DMM by Direct Method.	1000 A to 2000 A	1.8 % to 2.1 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 35 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	7.26 % to 5.62 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	4.83 % to 0.24 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.21 % to 0.15 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.24 % to 0.21 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.15 % to 0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.67 % to 0.40 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 36 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	2 A to 10 A	0.38 % to 0.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.40 % to 0.38 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	2.3 % to 1.3 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 200 mV	4.75 % to 1.07 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	20 V to 200 V	0.35 % to 0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mV to 20 V	1.07 % to 0.45 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 1 kHz)	Using 5½ Digit Multifunction Calibrator by Direct Method	200 V to 1000 V	0.33 % to 0.22 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 37 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.7 % to 1.5 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.4 % to 1.50 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.13 % to 0.21 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.45 % to 0.21 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.21 % to 0.15 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using High Current Shunt with 6½ Digit Multimeter by Direct Method	10 A to 1000 A	0.42 % to 0.84 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	5.65 % to 3.6 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 38 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 1 Gohm	0.12 % to 3.03 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.4 % to 0.08 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.05 % to 0.12 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2/4 Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 kohm	0.08 % to 0.05 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.42 % to 0.012 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.025 % to 0.015 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.012 % to 0.025 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 39 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.015 % to 0.012 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.71 % to 0.16 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2 A to 10 A	0.26 % to 0.24 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.16 % to 0.26 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ Digit Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	2.1 % to 1.1 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	0.01 ohm to 1 ohm	0.65 % to 0.63 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	1 kohm @ 35 mA	0.30 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 40 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	10 kohm @ 15 mA	0.30 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	10 ohm @ 0.35A	0.30 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Standard Resistance Box by Direct Method	100 ohm @ 0.12 A	0.30 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 Mohm	0.50 % to 0.14 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.14 % to 1.15 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2/4 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	1.15 % to 2.50 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	1 mohm @ 50A	0.30 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 41 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	1 ohm @ 1.2A	0.30 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	10 mohm @ 15A	0.30 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	100 µohm @ 100A	1.45 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	100 mohm @ 3.5A	0.30 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistance Box by Direct Method	20 µohm @ 250A	1.61 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	1 mV to 20 mV	1.52 % to 0.18 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.18 % to 0.70 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 42 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	20 V to 1000 V	0.11 % to 0.13 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	200 mV to 20 V	0.70 % to 0.13 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 1000 V	Using HV Decade Resistance Box by Direct Method	0.1 Mohm to 100 Mohm	3.19 % to 3.15 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	1 Gohm	5.8 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method.	10 Gohm	6.1%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	100 Gohm	9.67%
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	1000 Gohm	6.8 %

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 43 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	200 Mohm	6.4%
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	5 Gohm	5.9 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	500 Gohm	9.67 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance @ Test Voltage Upto 5000 V	Using High resistance Jig by Direct method	500 Mohm	6.4 %
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100 Type	Using Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.40 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.00 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.80 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 44 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.70 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.70 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.70 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.06 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.08 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.6 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100 Type	Using Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.42 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 45 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.00 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.80 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.70 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.70 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.70 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.06 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	1.08 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 46 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.6 °C
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	1 kHz to 10 kHz	0.02 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	45 Hz to 1 kHz	0.04 % to 0.02 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison method	1 sec to 3600 sec	1.17 % to 0.091 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	3600 sec to 86400 sec	0.091 % to 0.091 %
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.29 % to 0.062 %
89	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	0.9 rpm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 47 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
90	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	1.5 rpm
91	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	2.5 rpm
92	MECHANICAL-ACCELERATION AND SPEED	RPM Source, Centrifuge, Stirrer, Rotating Machine & Indicator, RPM Generator	Using Digital Tachometer by Comparison Method	10000 rpm to 90000 rpm	3.5 rpm
93	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	0.9 rpm
94	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.5 rpm
95	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 8000 rpm	5.6 rpm
96	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	0.9 rpm
97	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.5 rpm

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 48 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.5 rpm
99	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, RPM Indicator (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10000 rpm to 90000 rpm	3.5 rpm
100	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell hardness Testing Machines (Hardness).	Using Standard Hardness Blocks as per IS 1586 (Part 2) : 2018 / ISO 6508-2 : 2015	HRBW	1.2 HRBW
101	MECHANICAL-HARDNESS TESTING MACHINES	Indirect Verification of Rockwell hardness Testing Machines (Hardness).	Using Standard Hardness Blocks as per IS 1586 (Part 2) : 2018 / ISO 6508-2 : 2015	HRC	0.75 HRC
102	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers)	Using Digital Pressure Indicator with Hydraulic Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R- 6-1	0 to 1000 bar	1.5 bar
103	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers/ Magnehelic Gauges/Differential Gauges/Manometers)	Using Digital Manometer with Pneumatic Air Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R-6-1	0 to 100 mbar	0.9 mbar

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 49 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
104	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers/Differential Gauges/Manometers)	Using Digital Pressure Indicator with Pneumatic Air Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R-6-1	0 to 30 bar	0.01 bar
105	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum - (Analog/Digital Pressure Gauges/Transmitters /Pressure Switches/Transducers)	Using Digital Vacuum Indicator with Vacuum Pump, 6 ½ Digital Multimeter By Comparison Method as per DKD-R- 6-2	(-) 0.9 bar to 0	0.01 bar
106	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Verification of Uniaxial Static Testing Machines (Compression Mode) - Compression / Universal / Flexural / Spring Testing Machine	Using Force Proving Instruments (Loadcells / Proving Rings of Class 0.5 & 1) IS 1828 (Part-1) : 2022 / ISO 7500 (Part-1) : 2018	2.5 kN to 2000 kN	0.70 %
107	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Verification of Uniaxial Static Testing Machines (Tension Mode) - Tensile / Universal / Spring Testing Machine	Using Force Proving Instruments (Loadcells / Proving Rings of Class 0.5 & 1) IS 1828 (Part-1) : 2022 / ISO 7500 (Part-1) : 2018	2.5 kN to 50 kN	0.65 %
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 0.001 g/1mg Class II and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1.	1 mg to 1 Kg	7.0 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 50 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 0.01 g/10mg Class II and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	10 mg to 4 kg	15 mg
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, d= 10 g Class IV and coarser	Using Standard Weight(s) of F1 class Methods as per OIML R 76-1.	10 g to 200 kg	30 g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 0.1 g Class II and coarser	Using Standard Weight(s) of E1 class and F1 Class Methods as per OIML R 76-1	100 mg to 30 kg	1 g
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 1 g Class III and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	1 g to 50 Kg	3 g
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Mass Comparator, d = 5 g Class III and coarser	Using Standard Weight(s) of E1 & F1 class Methods as per OIML R 76-1	5 g to 75 kg	10 g
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Micro Balances, d=0.001 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1.	1 mg to 22 g	0.01 mg
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Semi Micro Balances, d= 0.01 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1	1 mg to 80 g	0.08 mg

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 51 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balances, Semi Micro Balances, d= 0.1 mg Class I and coarser	Using Standard Weight(s) of E1 class Methods as per OIML R 76-1.	1 mg to 220 g	0.12 mg
117	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environmental Chambers, Humidity Chambers, Temperature & Humidity Chamber (Single Position)	Using Digital Temperature and Humidity Meter By Comparison Method	10 °C to 50 °C @ 50 %rh	0.87 °C
118	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Environmental Chambers, Humidity Chambers, Temperature & Humidity Chamber (Single Position)	Using Digital Temperature and Humidity Meter By Comparison Method	15 %rh to 95 %rh @ 25°C	1.9 %rh
119	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-hygrometer, RH Sensor with Data Logger	Using Digital Temperature & Humidity Meter with Humidity & Temperature Generator Chamber By Comparison Method	10 °C to 50 °C @ 50%rh	0.87 °C
120	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-hygrometer, RH Sensor with Data Logger	Using Digital Temperature & Humidity Meter with Humidity & Temperature Generator Chamber By Comparison Method	15 %rh to 95 %rh @25°C	2.5 %rh

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 52 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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	THERMAL-TEMPERATURE	Baths, Ovens, Furnaces, Temperature Enclosures, Autoclave (Non-Medical Purpose)	Using Using Minimum Nine N Type Thermocouples with Data logger by Multi position Calibration Method	250 °C to 1000 °C	5.05 °C
122	THERMAL-TEMPERATURE	Freezers, Ovens, Refrigerators, BOD, Environmental Chambers, Cold Chambers, Temperature Enclosures, Industrial Furnaces, Incubators/Autoclave (Non-Medical Purpose)	Using Minimum Nine RTD Sensors with Data logger by Multi position Calibration Method	(-)80 °C to 250 °C	2.18 °C
123	THERMAL-TEMPERATURE	RTD's, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Low Temperature Bath by Comparison Method	(-)30 °C to 50 °C	0.90 °C
124	THERMAL-TEMPERATURE	RTD's, Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Temp. Oil bath by Comparison Method	50 °C to 250 °C	1.79 °C

SCOPE OF ACCREDITATION

Laboratory Name : QUALILAB INDUSTRIES PRIVATE LIMITED, 1, SHARDA NAGAR, HUDKESHWAR ROAD, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2103 **Page No** 53 of 53

Validity 03/12/2024 to 02/12/2028 **Last Amended on** 11/12/2024

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)(±)
125	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Muffle Furnace, Tubular Furnace, Temperature Baths (Single Position)	Using S type Thermocouple With High Precision Digital Thermometer by Comparison Method	250 °C to 1500 °C	3.5 °C
126	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Water Bath, Liquid Bath, Freezer, Melting Point Apparatus, Incubators/Autoclave (Non-Medical Purpose) (Single Position)	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by Comparison Method	(-)80 °C to 250 °C	1.8 °C
127	THERMAL-TEMPERATURE	Thermocouple with or without (Controller / Indicator), Digital Thermometer, Temperature Gauge, Temperature Transmitter, Temperature Switch	Using S type Thermocouple With High Precision Digital Thermometer, 6 ½ Digital Multimeter by using Dry Block Furnace by comparison Method	250 °C to 1200 °C	3.00 °C
128	THERMAL-TEMPERATURE	Thermometer - Digital / Dial / Glass In Thermometer	Using RTD (PT-100) 4 Wire With High Precision Digital Thermometer by Comparison Method	26 °C to 250 °C	0.90 °C

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